CONFIDENTIAL

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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In Re: Review of Tampa Electric Company's Waterborne Transportation Contract with TECO Transport and Associated Benchmark

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CONFIDENTIAL

DIRECT TESTIMONY AND EXHIBITS

OF

JOHN B. STAMBERG, P.E.

ON BEHALF OF



DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY OF JOHN B. STAMBERG, P.E.

1	Q.	Please state your name, address, occupation and employer.
2	A .	My name is John B. Stamberg. I am employed as Vice President of Energy Ventures
3		Analysis, Inc. ("EVA"), 1901 North Moore Street, Suite 1200, Arlington, Virginia 22209.
4		
5		BACKGROUND AND QUALIFICATIONS
6	Q.	Please provide a brief outline of your educational background and work experience.
7	Α.	I received a Bachelor of Science Degree in Civil Engineering from the University of
8		Maryland in 1966 and a Master of Science Degree in Sanitary Civil Engineering from
9		Stanford University in 1967. I worked at the United States Environmental Protection
10		Agency, primarily in the areas of water pollution control and solid waste management
11		and handling, from 1967 to 1974. From 1974 to 1981, I worked as a Director for Energy
12		and Environmental Analysis, Inc., in water pollution, boiler conversions, and coal
13		unloading, storage, handling, and reclaiming. Since 1981, I have been with EVA, where
14		I have had primary responsibility for directing EVA's engineering studies and where I
15		have worked with electrical power plants, industrial boilers, mining engineering, and
16	·	materials handling. I hold patents pending in wastewater treatment system and mineral
17		processing applications. A copy of my resumé is attached as Exhibit(JBS-1).
18		
19	Q.	Are you a registered professional engineer?
20	A .	Yes. I am a registered professional engineer in the State of Louisiana.
21		

1	Q.	Are y	you a member of any professional organizations?
2	А.	Yes.	I am a member of the Water Pollution Control Federation and the Federal Water
3		Quali	ity Association.
4			·
5			PURPOSE OF TESTIMONY
6	Q.	Pleas	se state the purpose of your testimony.
7	А.	I am	testifying on behalf of CSX Transportation ("CSXT"), an intervenor party in this
8		proce	eeding before the Florida Public Service Commission ("PSC" or "Commission").
9		The j	purpose of my testimony is to present my independent evaluation, analyses, and
10		opini	ons regarding the following:
11		a.	CSXT's conceptual design and capital cost estimates for the construction of rail
12			infrastructure that would be needed to accommodate rail deliveries of coal to
13			Tampa Electric Company's ("TECO") Big Bend Generating Station and Polk
14			Power Station;
15		b.	the estimates of the capital costs for rail infrastructure prepared by Sargent &
16			Lundy ("S&L") at the request of TECO;
17		C .	the estimates, prepared by Sargent & Lundy at TECO's request, of the operating
18			and maintenance ("O&M") costs associated with the rail delivery system
19			proposed by CSXT; and
20		đ.	the capability of the proposed coal handling facilities at Big Bend Station to
21			provide blending for solid fuels (different types of coals and petroleum coke) used
22			by TECO at its Big Bend and Polk Stations.
23			
24			

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Q. What is the scope of your analysis and testimony?

A. The scope of my analysis is essentially coextensive with the purposes above. I have reviewed and analyzed, independently and using independent sources for input data and factors, the cost estimates prepared by CSXT for the rail delivery infrastructure needed to accommodate rail delivery of coal at TECO's Big Bend and Polk Generating Stations.

I have also analyzed S&L's September 18, 2003 report entitled <u>CSX</u>

Transportation – Alternative Method of Coal Delivery, Report No. SL-008160. The
 purpose of the S&L report was allegedly to validate the capital cost for each option
 proposed and to provide assessments of assumptions that qualify the bid. S&L also
 provided operating cost estimates. This work was done on behalf of TECO and with
 TECO's inputs. I obtained access to this S&L report upon signing an "Endorsement to
 Non-Disclosure Agreement" signed and dated February 25, 2004. TECO has classified
 this document as confidential.

14 Finally, as a result of gathering certain information and having approximately 4 15 hours to visit the Big Bend site, I feel that there is another engineering design solution for 16 rail delivery of coal to Big Bend that enjoys lower capital costs, lower operating costs, 17 quicker construction time, and less implementation difficulties than either the initial 18 CSXT design concept or S&L's concept. Accordingly, I believe that this solution is worth 19 evaluating. This solution would have likely been envisioned if TECO had cooperated 20 with CSXT in attempting to identify and design a workable coal-by-rail delivery system 21 for the Big Bend site, therefore, I refer to this new alternative as a "cooperative" design 22 concept.

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Q. Are you sponsoring any exhibits to your testimony?

2	А.	Yes. I am sponsoring the fol	lowing exhibits:
3		Exhibit(JBS-1):	Resumé of John B. Stamberg, P.E.;
4		Exhibit(JBS-2):	Excerpts from RS Means Heavy Construction Cost Data,
5			13 th Edition, 1999, <u>RS Means Square Foot Costs, 24th</u>
6			Annual Edition, and Dodge Unit Cost Book, 1999;
7		Exhibit(JBS-3):	Conveyor Estimate Based on Cubic Storage Systems
8			Budget Quote;
9		Exhibit(JBS-4):	Conveyor Estimate Based on FMC Budget Quote;
10		Exhibit(JBS-5):	Conveyor Estimate Based on Continental Conveyors
11			Budget Quote,
12		Exhibit(JBS-6):	Rapid Discharge Pit and Conveyor – EVA Estimate;
13		Exhibit(JBS-7):	Conceptual Diagram – Cooperative Rail Delivery System;
14		Exhibit(JBS-8):	Overview of Rail Delivery Options to Big Bend;
15		Exhibit(JBS-9):	Sargent & Lundy LLC, Tampa Electric Company Big Bend
16			and Polk Generating Stations, CSX Transportation
17			Alternate Method of Coal Delivery, SL-008160, September
18			18, 2003; and
19	·	Exhibit(JBS-10):	Sargent & Lundy LLC, Tampa Electric Company Big Bend
20			and Polk Generating Stations, CSX Transportation
21			Alternate Method of Coal Delivery, SL-008160, DRAFT
22			September 4, 2003.
23			

SUMMARY OF TESTIMONY

Please summarize your testimony. 1 0. Α. 2 CSXT prepared capital cost estimates for two rail delivery infrastructure systems at 3 TECO's Big Bend Station and two systems at Polk Station. CSXT proposed to pay for 4 what CSXT estimated, based on preliminary engineering analyses, to be the reasonable 5 costs of all necessary infrastructure improvements to accommodate rail deliveries of coal 6 to both Big Bend and Polk. Despite significant constraints, imposed by TECO, on 7 CSXT's ability to adequately view the Big Bend site and existing facilities, CSXT's 8 estimates were entirely reasonable. My estimates, presented in this testimony, indicate that the actual costs will probably be somewhat higher than estimated by CSXT but still 9 below the total amount that CSXT offered to pay for the needed facilities. 10 11 TECO hired S&L on August 27, 2003 to prepare a study of the capital and 12 operating and maintenance costs associated with a rail delivery system for coal at Big Bend and Polk. S&L's study is not based on standard engineering estimating techniques 13 or information sources, is not based on normal data inputs, and produced severely 14 15 overstated cost estimates for the capital costs associated with CSXT's proposed rail 16 delivery facilities at Big Bend (and Polk). The total overstatement is approximately \$20 17 million to \$40 million, depending on which S&L value one takes as the reference point. 18 Not surprisingly, S&L's estimates of O&M costs are also severely overstated. My 19 estimates, presented in this testimony, indicate that S&L's O&M estimates are overstated 20 by a factor of about four times the correct cost. 21 In addition, the coal handling facilities at Big Bend Station will continue to have 22 excellent blending capabilities following the installation of the proposed CSXT rail

delivery systems.

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EVALUATION OF CSXT'S CONCEPTUAL DESIGN AND COST ESTIMATES FOR RAIL DELIVERY INFRASTRUCTURE TO SUPPLY COAL TO BIG BEND AND POLK

1	Q.	Have you reviewed CSXT's July 2003 bid?
2	A.	Yes.
3		
4	Q.	Do you understand how the cost estimates were made by CSXT?
5	A.	Yes.
6		
7	Q.	How did you come to understand CSXT's cost estimating procedure?
8	Α.	I met with Bob White and Mike Bullock of CSXT, and Richard Schumann of RAS
9		Engineering Plus, Inc., on February 20, 2004 at CSXT's headquarters in Jacksonville,
10		Florida for the purpose of learning how Mr. Schumann, Mr. White, and the other CSXT
11		engineering personnel prepared their design and their cost estimates.
12		
13	Q.	Who developed CSXT's cost estimates?
14	A .	Bob White of CSXT, with assistance from CSXT's internal engineering sections, and
15		Richard (Dick) Schumann of RAS Engineering Plus, Inc. prepared CSXT's design
16		concept and cost estimates for the rail delivery systems identified in CSXT's proposals
17	·	(bids) presented to TECO in 2002 and 2003.
18		
19	Q.	What information did Mr. White and Mr. Schumann use to develop the cost
20		estimates?
21	A.	In August 2002, TECO provided CSXT an out-of-date macro-scale plot plan. In
22		addition, TECO allowed Mr. White and Mr. Schumann to have a 30-minute "drive

- through" visit to the Big Bend Station, escorted by Mr. Martin Duff of TECO, in which Mr. White and Mr. Schumann were not allowed to get out of their car, not allowed to take pictures, and not allowed to ask technical questions of Mr. Duff.
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Q. Why was the out-of-date macro-scale plot plan a problem?

6 Α. There were four major misleading problems with the out-of-date plot plan that made 7 determining a possible rail delivery system difficult: (1) The Polk truck loading system 8 was not shown on this plot plan. The current load out for Polk is in the northern most 9 blend silo. It was not shown. Mr. Duff identified a unit that was about 1,000 feet south 10 of the current Polk truck load out. (2) The area on the out of date plot plan had a single 11 area marked G4, which is and was then divided into a slag pond and a dead coal storage 12 area. (3) The two main radial stackers were not shown on the out-of-date macro-scale 13 plot plan. (4) The out-of-date plot plan showed two parallel tracks on the south side of 14 the station, one of which was in the process of being dug up to accommodate piping that 15 was being installed in association with a new water desalinization plant being installed 16 adjacent to the Big Bend plant site. Mr. Duff orally stated that this second track would be 17 restored, when in fact it was not.

18

Q. How did the out-of-date plot plan handicap CSXT's efforts to propose and cost out rail delivery systems and Polk shuttle reloading systems?

A. First, the misinformation increased the length of the Polk reloading conveyor. Second,
the incorrect area-G4 information did not allow Mr. White and Mr. Schumann to select
the best location for the new proposed radial stacker to be placed such that the Big
Bend's radial stacker could reach more of the rail delivered coal in the 1.0 to 2.0

1		MMTPY system. Finally, the fact that CSXT was told that certain missing or removed
2		tracks would be restored, but which were not restored, directly impacted the needed
3		trackage for rail coal unloading and reloading systems.
4		
5	Q.	Would a 30-minute, "no pictures," "stay in your car," drive through visit or "tour"
6		of Big Bend Station, or any other power plant, be sufficient to select an optimum
7		rail delivery system?
8	A.	No.
9		
10	Q.	Why not?
11	А.	The Big Bend coal yard has 69 transfer points identified in its air permit and is a large
12		flexible blending facility with numerous pieces of equipment. Many items cannot be
13		seen from the car. Any new conveyor, the most widely used piece of equipment in a coal
14		yard, must be in a straight line. Checking lines of sight cannot be done from a car nor is
15		30 minutes a sufficient time to identify or examine various alternatives.
16		
17	Q.	Did Mr. White and Mr. Schumann talk to anyone from Big Bend that could
18		describe how the equipment was used?
19	А.	No. TECO did not give Mr. White and Mr. Schumann access to any Big Bend
20		engineering or operating personnel.
21		
22	Q.	What type of information would be readily available to engineers or railroad
23		personnel if they wanted to propose a possible coal-by-rail delivery system?

1	А.	Under normal circumstances, there are several easily available sources of information:
2		accurate, detailed site plans with all significant equipment and facilities identified; access
3		to coal yard operators, plant engineers, or supervisors who know how the coal yard is
4		operated; utility drawings for electric power, water, drainage, and other systems; air
5		permits; and reasonable time to walk, view, and understand the coal yard.
6		
7	Q.	Given the handicaps that you just identified, how were Mr. White and Mr.
8		Schumann able to propose and estimate the cost of a rail unloading system?
9	А.	They have sufficient experience that they could and did propose a reasonable
10		solution, which may not be the lowest cost or the only viable solution. With their
11		knowledge and experience, a reasonable solution could be proposed and costs estimated
12		for purposes of evaluating the viability of potential business opportunities. If more site
13		information or access were provided or obtained, a lower cost solution would only make
14		CSXT's bid more attractive.
15		
16	Q.	Can you describe the reasonable solution proposed by CSXT?
17	Α.	Yes. The design concept proposed by CSXT had the following key features.
18 -		1. The coal would be brought into the plant in 90-car unit trains via new trackage on
19		and within the west side fence in 45 car-segments.
20		2. The coal would be dumped into a pit either newly built or using the existing rail
21		unloading pit for limestone.
22		3. Then the coal would be transported by conveyor to the coal barge system transfer
23		house either (a) via two straight line conveyors or (b) via a long west-moving
24		conveyor connecting to a northwest-moving conveyor to the coal barge transfer

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1		house. (The alternative for lower volumes of coal deliveries would only move
2		westward then directly north).
3		4. The Polk shuttle coal would be picked up at the truck loading source and
4		conveyed to a 250-ton silo which would load the coal into the Polk shuttle cars.
5		
6	Q.	Is this a workable concept?
7	A.	Yes.
8		
9	Q.	Have you visited the Big Bend site?
10	А.	Yes. I drove around the site and surrounding area during March 8-11, 2004. I obtained
11		information from the Hillsborough County Property Appraiser. I also visited the
12		Environmental Protection Commission of Hillsborough County to review air permit files
13		and wetland locations. At this time, it was uncertain whether TECO would allow me to
14		visit the site. On March 18, 2004, I was able to visit Big Bend. I was able to get out of
15		the car and view equipment. I was there for about four hours and there was no time limit
16		on my visit, and TECO personnel were generally able to answer my questions. I was
17		allowed to make linear measurements, but TECO did not allow me to take pictures or
18		measure noise levels.
19.		
20	Q.	Were the options proposed by CSXT viable and adequate engineering concepts?
21	Å.	Yes.
22		
23	Q.	What, if any, adjustments in CSXT's concept do you feel are needed or
24		appropriate?

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1	A .	Four specific adjustments are needed, as follows.
2		1. Because the right-of-way for the second track was not restored, and because
3		desalinization pump motors on-site are vertical and a pump control house (about
4		16 feet high) is now in this right-of-way, the long conveyor proposed by CSXT
5		has to be elevated to about 18 feet to clear the existing equipment.
6		2. The limestone conveyor goes slightly north by about 12 feet. The proposed
7		elevated conveyor needed a 12-foot southern orientation. This means that if the
8		limestone conveyor is used, a 24-foot conveyor and another transfer house is
9		needed.
10		3. The limestone rail pit and conveyor do not have a magnetic separator.
11		4. The existing limestone pit has a baghouse to control dust. A surfactant dust
12		suppression system might be a better approach. This type of dust suppression is
13		used at the dock unloading system.
14		
15	Q.	Would those adjustments result in added costs, above those initially estimated by
16		Mr. White and Mr. Schumann?
17	A.	Yes.
18		
19	Q.	Can you estimate the resulting increase in cost of making these adjustments?
20	A .	Yes.
21		1. The elevation of the long conveyor would add about \$50,000 in foundation cost,
22		\$25,000 for ladders, \$265,000 for step supports, and \$330,000 for walkways for a
23		total increase of <u>\$670.000</u> .

1		2. The dust suppression equipment cost would be \$85,000 to \$95,000 delivered and
2		about \$10,000 to install, for a mid-range total of <u>\$100,000</u> . This is identical
3		equipment (Dust Buster) from the same supplier (Midwest Supply) as the dust
4		suppression equipment used for the Big Bend barge unloading system.
5		3. A stationary electromagnetic metal separator would cost \$18,600 for the magnet
6		and 10 KW rectifier to convert AC current to DC current, plus an estimated cost
7		of \$7,400 to install. This totals to <u>\$26,000</u> .
8		4. An additional 24-foot conveyor and transfer house would cost about \$350,000.
9		This 24-foot conveyor would only be needed in the 1.0 to 2.0 MMTPY system.
10		
11	Q.	What is the total cost that would be needed to add to CSXT's bids in your opinion?
12	А.	For the large system (2.0-5.5 MMTPY) it would be \$796,000 (\$670,000 + \$100,000 +
13		\$26,000). For the small system it would be about \$896,000 (\$420,000 pro rated elevated
14	·	conveyor length + \$100,000 + \$26,000 + \$350,000).
15		
16	Q.	Do you know how Mr. White and Mr. Schumann prepared their estimates?
17	A .	Yes. The coal handling system cost estimates were provided by Mr. Schumann; CSXT
18		personnel provided the cost estimates for rail and heavy equipment. No formal report
19		was made by Mr. Schumann. Vendor information was obtained orally by Mr. Schumann,
20		and Mr. Schumann's estimated costs for Big Bend were then verbally transferred to Bob
21		White of CSXT. The systems at Polk to unload coal had some written estimates for the
22		Polk scenarios.
23		Mr. Schumann used a variety of approaches to prepare his cost estimates,
24		including specifically: obtaining verbal up-to-date costs from various vendors

(particularly for the conveyor systems) and estimating the pit costs based on similar 1 equipment (adjusted to 2003 dollars). In some cases, Mr. Schumann proposed a 2 surrogate design and used various factors to estimate the costs. The estimates were 3 determined to be appropriate by Mr. Schumann when comparing the estimates to his 4 previous work. The specifics were as follows. 5 1.0 to 2.0 MMTPY Bid at + 1,500 tons per hour ("TPH"). 6 Α. 1. Modified Limestone Pit -- \$260,000 by Schumann. The existing 7 limestone pit or under-car loading system was designed for rail car bottom 8 loading. It is covered with a bag house to control dust. Only truck-9 10 delivered limestone is being delivered or predicted to be delivered per TECO. Thus, the pit is ideal for conventional coal rail car unloading at a 11 12 rate of about 1,500 TPH. The details of the belt (size and rate) that were 13 provided may need to be upgraded to meet the 1,500 TPH rate capability. 14 The cost to upgrade the belt rates and use the limestone rail unloading pit 15 for coal was estimated to be \$260,000 based on Mr. Schumann's 16 experience with similar projects. The coal would then be put on the long 17 conveyor. Mr. Schumann felt that a new limestone truck unloading 18 system was needed to prevent coal and limestone from being 19 contaminated. (See No. 5 below.) 20 2. Long Conveyor - \$1,953.000 by Schumann. The conveyor taking the 21 coal from the limestone pit conveyor would be a 54" wide conveyor

running 2,100 feet west to a short conveyor running north. Mr. Schumann provided a cost estimate of a complete system, i.e., a system that was covered, fire protected, and provided with access walks, lights, and other

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1		necessary appurtenances, complete with engineering and installation. He
2		contacted several conveyor vendors to verify his cost estimate using the
3.		most current cost for idlers, frames, and other components. The 54" wide
4		conveyor could handle 2,500 TPH. The estimated cost conformed to the
5		range of cost experienced on other projects.
6		3. Short Conveyor - \$280,000 by Schumann. The same approach as used
7		for the long conveyor was used to estimate the cost of the short conveyor.
8		4. 200 Foot Radial Stacker \$250,000 by Schumann. The radial stacker
9		cost was based on previous cost experience and escalated to 2003 dollars.
10		5. <u>New Track Dump and Conveyor \$350,000 by Schumann</u> . If the rail
11		coal delivery system is to use the limestone pit system located under the
12		railroad track, another limestone pit and conveyor would be desirable for
13		the truck delivery of limestone. The new limestone pit was estimated by
14		using approximate cost estimates and factors for materials, installation and
15		overhead and profit, as well as engineering for a surrogate design of a pit
16		and conveyor system. The new limestone pit and pit conveyor would feed
17		the existing limestone transfer house. The costs were in the expected
18		range of similar equipment installations.
19	В.	2.0 to 5.5 MMTPY Bid @ ± 2,500 TPH.
20		1. Rapid Discharge System \$1,600,000 by Schumann. The rapid
21		discharge system cost estimate was made in the same manner as the new
22		limestone truck dump and conveyor system, i.e., a surrogate design and
23		updated conveyor cost were used.

1	2.	Long Conveyor at 3,300 ft \$3,100,000 by Schumann. The long
2		conveyor system was estimated in the same manner as the previous
3		conveyors using updated conveyor component costs backed-up by Mr.
4		Schumann's experience.
5	3.	Short Conveyor at 500 ft \$650,000. Same method as above.
6	4.	Transfer Station - \$230,000 by Schumann. The transfer station cost
7		estimate was based on previous cost experience for equipment similar to
8		that at Big Bend and roughly escalated to 2003 dollars.
9	5.	Three 45-Car Tracks - \$1.200.000 by CSXT. The costs of upgrading
10		and installing new trackage were identified by Mr. Schumann and Mr.
11		White of CSXT and the cost estimated by CSXT engineers. The cost
12		included restoring the track disturbed by the desalinization piping.
13	6.	Truck Dump and Conveyors - \$350,000 by Schumann. Same as 1.0 to
14		2.0 MM Ton Bid.
15	C. Pol	k Shuttle Train Loading at Big Bend - 2.0 to 5.0 MMTPY
	1.	Conveyor and Transfer Station - \$2,250,000 by Schumann. This
16		
16 17		estimate was based on updated conveyor cost and surrogate design. The
		estimate was based on updated conveyor cost and surrogate design. The transfer station was similarly estimated.
17	2.	
17 18	2.	transfer station was similarly estimated.
17 18 19	2.	transfer station was similarly estimated. 250 to Batch Silo – \$1.066.000 by Schumann. The batch silo was
17 18 19 20	2. 3.	transfer station was similarly estimated. <u>250 to Batch Silo – \$1.066.000 by Schumann</u> . The batch silo was considered to be useful and was estimated by escalating similar systems to
17 18 19 20 21		transfer station was similarly estimated. <u>250 to Batch Silo – \$1.066.000 by Schumann</u> . The batch silo was considered to be useful and was estimated by escalating similar systems to 2003 dollars.

1	Q.	If Mr. Schumann based his estimate on a national average cost, should his estimates
2		be adjusted for Big Bend?
3	A.	Since Mr. Schumann based his estimates on national average costs for this mechanical
4		work, it may be necessary to adjust his estimates to reflect local differences between
5		Tampa-area costs and national average costs. Currently the "RS Means" (RS Means
6		Heavy Construction Cost Data 13th Edition, 1999, and RS Means Square Foot Costs, 24th
7		Annual Edition) indexes show the cost of construction in Tampa to be 80% of the
8		national average for overall work (1.039 index for Tampa divided by 1.302 for the
9		national average). See Exhibit(JBS-2).
10		
11	Q.	Since this work is heavily mechanical, is there a way to take into account that this
12		proposed system is mechanical?
13	A.	Yes. The Dodge Unit Cost Book subdivides its index by type of work. In 1999,
14		mechanical/electrical work was 0.89 versus 0.86 for overall work. Thus, mechanical/
15		electrical work in Tampa is 3.5% more costly than overall work in Tampa.
16		
17	Q.	From the above sources, can you determine whether and how to adjust Mr.
18		Schumann's estimates to Big Bend?
19	А.	Yes. The correct adjustment is made by multiplying the RS Means index value of 0.80
20		(80%) by the Dodge indicator of increased cost for mechanical/electrical work of 1.035.
21		This indicates that mechanical/electrical work at Big Bend should be approximately 83%
22		of the national average.
23		

1	Q.	Using this information, was there a cost overstatement or implied contingency built
2		into Mr. Schumann's estimates?
3	A.	Yes. Mr. Schumann added 5% contingency to his estimates based on national averages.
4		This coupled with the above lower cost in Tampa of 17% results in 21% contingency in
5		Mr. Schumann's estimates.
6		
7	Q.	Did CSXT include in its proposals (bids) an offer to pay up to 120% of Mr.
8		Schumann's estimated costs for the rail delivery infrastructure?
9	А.	Yes.
10		
11	Q.	Did CSXT have a contingency built into its estimate for rail trackage?
12	A .	No.
13		
14	Q.	Can you estimate the contingency in the CSXT bid?
15	А.	Yes. CSXT's estimated cost of \$1,200,000 for track has no internal contingency, and the
16		remaining \$5,930,000 in rail infrastructure costs has a 21% estimated internal
17		contingency for a total of \$1,245,300 implied contingency. With a \$7,130,000 estimate,
18		the implied internal contingency is thus approximately 17.5%.
19		
20	Q.	Since CSXT was willing to pay 20% above their estimate, what is the approximate
21		total contingency inherent in CSXT's proposal?
22	А.	Since CSXT was willing to pay up to 120 percent of \$7,130,000 for the rail delivery
23		improvements at Big Bend, the total "built in" contingency in CSXT's bid was, or is,
24		approximately 45 percent. This is calculated by dividing the difference between (a) what

1		CSXT was willing to pay $(\$7,130,000 \times 1.2 = \$8,556,000)$ and (b) what the project cost
2		was excluding any contingency (\$7,130,000 - \$1,245,300 implied contingency =
3		\$5,884,700); this calculation indicates that CSXT was willing to pay 45.4 percent more
4		than the no-contingency cost estimate for the rail delivery facilities at Big Bend.
5		
6	Q.	Have you made an independent estimate of the cost in CSXT's bids?
7	А.	Yes.
8		
9	Q.	What was your estimated rail track cost?
10	А.	I used 1999 RS Means factors for rail, grading to level with purchased fill material,
11		spreading and compaction of the fill material. I also estimated the cost of bumpers,
12		switches, switch timber, road crossings, signage and one signal. I then escalated the cost
13		to 2003 by the RS Means escalation factor and adjusted this to reflect engineering and
14		indirect cost. My estimate is \$1,231,284 versus CSXT's \$1,200,000 estimate.
15		
16	Q.	What is your estimate for conveyors?
17	А.	I obtained a budget quote for a covered 2,500 ton per hour ("TPH") @ 750 FPM 54"
18		conveyor from Cubic Storage Systems, Inc., a local (Tampa area) conveyor supplier.
19		Beginning with Cubic Storage Systems, Inc.'s budget quote, I added in my cost estimates
20		for foundations, walkways, lights and fire protection to estimate the installed cost based
21		on Cubic Storage Systems, Inc.'s quote. This yielded about \$3,873,467 for 3,800 feet.
22		This is about \$1,020/LF, which equates to \$3,366,000 for the long conveyor as compared
23		to the \$3,100,000 estimate by CSXT. This also equates to \$550,150 for the short
24		conveyor as compared to \$650,000 estimated by CSXT. See Exhibit(JBS-3).

1	Q.	Is there another independent basis for estimating the costs of the needed conveyors?
2	Α.	Yes. It is based on FMC, another well-known conveyor supplier, supplying a covered or
3		hooded conveyor with cover lights and walkway. With 30 feet on center supports, FMC
4		estimates the cost will be \$1,083/LF. The long conveyor would thus cost about
5		\$3,573,900. CSXT estimated the cost at \$3,100,000. Using this approach, I estimated
6		the short conveyor to cost \$541,500. CSXT estimated the short conveyor cost to be
7		\$650,000 . <u>See</u> Exhibit(JBS-4).
8		
9	Q.	Did you estimate the cost using the same manufacturer of conveyors as used at Big
10		Bend?
11	A.	Yes. Big Bend coal yard uses Continental Conveyors, and Continental Conveyors quoted
12		\$2,733,060 for the long conveyor as compared to CSXT's \$3,100,000 estimate and
13		\$414,100 for the short conveyor as compared to CSXT's \$650,000. See Exhibit
14		(JBS-5).
15		
16	Q.	Do you have an independent calculation of the cost of the transfer house?
17	A.	I made some rough calculations and concluded that the \$230,000 is within the reasonable
18	а,	range of costs for such a structure with hoppers.
19		
20	Q.	Do you have an independent calculation of a new truck limestone pit and conveyor?
21	A .	Yes. My estimate indicates that this may be about \$400,000. CSXT estimated this new
22		limestone pit and conveyor to cost \$350,000.
23		
24		

Q.

Do you have an independent estimate of the rapid discharge system?

A. Yes, using a surrogate design and RS Means factors, I estimated the cost including the pit conveyor at \$1,590,391. See Exhibit _ (JBS-6).

4

5

Q. Do you have an independent summary of the CSXT system cost estimates?

Yes. The estimates using the three different methodologies (CSXT, Cubic Storage/EVA, 6 A. 7 Continental Conveyor, and FMC/EVA) are shown below based on three vendor quotes and EVA calculations. My estimates are between 3.3% and 5.9% higher than the CSXT 8 9 estimate. However, after having access to the site that Mr. Schumann and Mr. White did not have, my best estimate after including adjustments for an elevated conveyor 10 11 adjustment, dust suppression, and an electromagnetic separator, is 15.5% to 17.1% higher 12 than CSXT's estimate. My estimates are still below CSXT's willingness to pay amount of \$8,556,000. Thus, I conclude that CSXT's estimates are basically correct and 13 14 accurate. The problem is that CSXT was denied the necessary access and information to 15 include all the necessary items.

*** *	CSXT's Estimate	EVA'S Estimate Cubic Storage	EVA's Estimate FMC
I. Original Conceptual D	esign		······
Rapid Dump System	\$ 1,600,000	\$ 1,590,391	\$ 1,590,391
Long Conveyor	3,100,000	3,366,000	3,527,700
Short Conveyor	650,000	550,150	574,560
Transfer Station	230,000	230,000	230,000
Rail	1,200,000	1,231,284	1,231,284
Limestone Truck Dump	350,000	400,000	400,000
Subtotal	\$ 7,130,000	\$ 7,367,825	\$ 7,553.935
Percentage Difference		(3.3%)	(5.9%)
II. Post Site Visit Elevated Long Conveyor		\$ 670,000	\$ 670,000
Dust Suppression	· · · · · · · · · · · · · · · · · · ·	100,000	100,000
Electromagnetic		26,000	26,000
Subtotal		\$ 796,000	\$ 796,000
Total	1	\$ 8,163,825	\$ 8,349,935
Percentage	· ·	(15.5%)	(17.1%)

1

3 Q. At this stage of development, what is the accuracy of the engineering estimates?

4 A. The cost estimates are $\pm 20\%$ at this point. A project that has had the design completed

5 and well-written specifications will be bid within 3-5% of competitive bidders.

6 EVA Alternate "Cooperative" Rail Delivery Concept

7 Q. From your observations and information gathered during your site visits and with

8 the information you now have, are there any other potential conceptual approaches

- 9 for delivering coal to Big Bend with lower cost?
- 10 A. Yes. Because this concept should have been readily identified by a cooperative effort
- 11 between TECO and CSXT, rather than by TECO's limiting CSXT's information
- 12 regarding and access to the Big Bend site, I call this a "cooperative" approach.
- 13
- 14

Q.

Can you describe the system?

2 Yes. The east side of the Big Bend site is congested with limestone and gypsum system Α. equipment as well as other maintenance and warehouse facilities. The south side where 3 4 the current limestone pit is located and where a new rapid rail discharge system would be 5 located is congested with FGD piping north of the remaining rail line. The corridor to the 6 south where the second track was envisioned and was to be restored is now congested 7 with the desalinization piping and pumps. This would require raising the proposed CSXT 8 conveyor up 20 feet or so. An alternative concept is to put the new rapid discharge 9 system, pit and conveyor, near the tracks and near the east end of the slag pond. This 10 would allow the coal unloading equipment to be located on the western part of the Big 11 Bend plant site, thus avoiding further congestion at the east end of the plant. It would, 12 however, require the 90-car unit trains to be split into three 30-car segments rather than 13 two 45-car segments. See Exhibit (**JBS-7**).

14

15 Q. Would this "cooperative" approach result in any capital cost savings?

A. Yes. Even if all-new equipment were used to implement and install this design concept, I
 estimate that the total cost would be slightly less than \$5 million, as opposed to the \$7.13
 million estimated by CSXT. If salvageable coal-handling equipment from TECO's
 Gannon Station were used, the total capital costs would be on the order of \$3.6 million.

- 20
- 21

- 1 Q. Please provide the estimated capital costs for this system, both with and without the
- 2 **use of Gannon equipment.**
- 3 A. See the table below.

	EVA Estimate Cooperative Concept New Equipment	EVA Estimate Cooperative Concept Used Gannon Equipment	Remarks
Rapid Discharge System	\$ 1,590,391	\$ 1,379,391	The new unit would be unchanged. Two Gannon rail car hoppers are usable (\$115,000). A Gannon transfer station saves \$96,000.
Long Conveyor	1,346,400	1,346,400	The long conveyor would only be 1,300 ft long and cost was proportional to the long conveyor
Short Conveyor	550,150	275,075	Use of two Gannon 1,600 tph conveyors would save new conveyor purchase (50% or \$275,075).
Transfer Station	230,000	115,000	Use Gannon unit with stacker reclaimers would work out fine (50% or \$115,000 savings)
Rail	1,231,284	1,231,284	Unchanged.
Limestone Truck Dump	400,000	400,000	
Elevation of Conveyor	N/A	N/A	
Dust Suppression	100,000	100,000	
Electromagnetic	26,000	26,000	
Total	\$ 4,979,225	\$ 3,641,866	\$1,337,359 savings using abandoned Gannon Equipment

5 6 Q.

7

8

construction time for the various alternatives to unload coal at Big Bend such as CSXT's original bid, your adjustments of CSXT's original bid and the above system with three 30-car segments?

Can you summarize the capital cost, operating capacities, train unloading time and

9 A. Yes. This information is presented in Exhibit ____(JBS-8).

1 Q. Have you also prepared an estimate of the O&M costs for your "cooperative" 3-30

2 car unit train segment approach?

- 3 A. The table below summarizes my O&M estimates for the cooperative system.
- 4

EVA Estimate of O&M Cost for a 3-30 Car Train Segment Approach

	Minimum Estimate	Maximum Estimate	
Variable			
Power	(\$17,000)	(\$32,000)	
Surfactant	0	0	
Labor	0	157,440	
Fixed Labor (less belt length)	\$150,654	\$150,654	
Maintenance	149,100	149,100	
Taxes	2,169	2,169	
Insurance	2,237	2,237	
Total	\$287,160	\$429,600	

- 5
- 6

EVALUATION OF SARGENT & LUNDY'S CAPITAL COST ESTIMATES

- 7 Q. Did you review the estimated capital costs in the S&L report, and if so, what were
- 8 your conclusions regarding S&L's capital cost estimates?
- 9 A. Yes, I reviewed the S&L study. A copy of this study is included as Exhibit ____(JBS-9)
- 10 to my testimony. My major conclusions are as follows:

111.The S&L report was hastily put together between August 27, 2003 until the draft12was presented September 4, 2003. (A copy of this draft report is included as

- 13 Exhibit ____(JBS-10) to my testimony.) Labor Day weekend was in the middle
- 14 of this period (August 30 to September 1). There is no reference to any S&L site
- 15 visit or vendor guotes made or used in the S&L report. The final S&L report was

1		submitted on September 18, 2003 with no evidence of site visits or vendor
2		information.
3	2.	The two most expensive items in the CSXT proposed 2.0-5.0 MM ton project, the
4		conveyor systems and the construction of the rapid discharge system, are
5		overpriced in the September 4, 2003 draft report based on my contact with three
6	-	conveyor vendors (one being Continental Conveyor that is the dominate supplier
7		of Big Bend's conveyors) and based on using nationally recognized standard unit
8		price factors for the construction for a pit similar but longer than the existing
9		limestone pit. Other components were also overpriced.
10	3.	Between the September 4, 2003 draft and the September 18, 2003 final report, the
11		conveyor cost were unexplainably doubled, and the cost for the coffer dam and
12		dewatering associated with the rapid discharge pit also doubled for a \$6,100,000
13		increase in construction cost, which with engineering and indirect cost factors
14		resulted in a total \$9,170,216 increase. Also, S&L included a category "Other
15		Cost and Adjustments" at \$2,194,000 without explanation. Thus, these
16		unexplained increases or "other cost and adjustments" alone are \$11,364,216 and
1 7		total more than CSXT's estimate of \$10,846,000 for the entire project for the 2.0
18	·	to 5.0 MM ton bid.
19	4.	There are numerous redundant items that are subcomponents of other equipment
20		such as conveyor fireproofing or lighting, or unnecessary items such as HVAC
21		(air conditioning at \$280,000) for the track hopper and the transfer house. With
22		an open structured transfer house with conveyors feeding hoppers, I do not know
23.		why air conditioning is needed. Also, I cannot figure out why a \$3,085,000
24		temporary coffer dam is needed.

1		5.	In S&L's Exhibit 2A-2, there is 38 items that compose the equipment to unload
2			trains at 2500 TPH and to load shuttle trains. Fully 22 of the 38 items are exact
3			multiples of the magic \$70,000 in S&L's proprietary model and 26 of the 38
4			items have construction and erection cost at 40% of total equipment or material
. 5			cost. This is a strong indication that little detailed engineering effort was put into
6		·	the numbers that were plugged into the proprietary model.
7		6.	If a proprietary model was used by S&L it is likely that model was used as a mere
8			calculation tool for plug in numbers and not for making engineering equipment
9			selections or calculating estimated costs.
10		7.	There was no effort to make cost savings or cost-effective choices. S&L failed to
11			consider the use of coal handling equipment at Gannon or to explore ways to
12			minimize construction of trackage; these are the most obvious cost saving
13			opportunities. The coal fired Gannon plant, which is about a dozen miles away,
14			was being phased out in the same time frame as the CSXT bid was being
15			developed. Also TECO owns land on both sides of Pembroke Road, north and
16			east of the Big Bend plant, with three tracks long enough to hold at least 45 rail
17			cars. Two of the tracks are used by IMC that cross TECO's land. IMC has a
18			locomotive and handles 90 car trains that cross TECO land. Also, National
19			Gypsum has track on this same TECO parcel. No effort was made to coordinate
20			rail movements on TECO's own land or share the locomotive.
21			
22	Q.	Wha	t was the schedule for the S&L report development?
23	А.	The v	vork was initiated on Wednesday August 27, 2003 with scope of work and schedule
24		in "R	evision O" (p. 435-436 of docket).

1	Q.	What was the proposed schedule?
2	Α.	Per "Revision O" the S&L and TE Schedule was:
3		• 8/27/03 Kickoff (Wednesday)
4	•	• 8/29/03 Conference Call (Friday)
5		• 8/30/03-9/01/03 Labor Day Weekend
6		• 9/02/03 Conference Call (Tuesday)
7		• 9/03/03 Conference Call (Wednesday)
8		• 9/04/03 Conference Call and Preliminary Report (Thursday)
9		• 9/05/03 Conference Call and Final Report (Friday)
10		
11	Q.	Did S&L meet this schedule?
12	А.	S&L met the schedule to provide a preliminary draft dated September 4, 2003. However
13		a final report was late and it was completed and submitted on September 18, 2003, as
14		S&L Report Number SL-008160.
15		
16	Q.	Was the schedule adequate to evaluate CSXT's proposal?
17	A.	No.
18		
19	Q.	Why do you believe the schedule was not adequate?
20	Α.	The proposed schedule did not permit time for S&L engineers to visit the Big Bend and
21		Polk sites or obtain vendor quotes on key equipment, especially with the Labor Day
22		weekend in the middle of the schedule.
23		
24		

Q. Why is a site visit necessary?

2	Α.	One of the key steps in initially evaluating the CSXT proposal was to visit the site in
3		order to understand the location of the proposed equipment, access to electricity, access
4		to fire protection water, horizontal or vertical interferences, the type of foundations used
5		as a basis to estimate future foundation designs, the type and style of equipment actually
6		used; to determine if any potential wetlands or other site or permit conditions that might
7		impact the proposed CSXT proposed design.
8		
9	Q.	Is there any evidence that any of the S&L engineers visited the site during the
10		scheduled work period?
11	А.	No.
12		
13	Q.	How did S&L get information to do its study?
14	А.	TECO provided some site information, operating cost estimates, and wetland quantities
15		(but not location).
16		
17	Q.	What site information was provided to S&L by TECO?
18	Α.	TECO's Dennis Barrette, Senior Engineer-Civil Structure/Generation Engineering
19		provided a series of drawings to S&L's Paula Guletsky on August 29, 2003.
20		· · ·
21	Q.	Were the Big Bend site drawings sufficient to evaluate the proposed rail locations
22		for the CSXT proposals for Big Bend?
23	A .	No. The site plans were of poor quality and were not clear as to the existence of the
24		second southern track that is now blocked by the desalinization plant piping. This lack of

1		detail made it difficult for S&L to locate the new rail that would be needed. Also,
2		vertical interfaces or the lack of vertical interfaces could not be determined.
3		
4	Q.	Was there adequate information to estimate foundation needs?
5	Α.	Some information was useful. The drawing entitled "Foundation-Plans and Sections-
6		Limestone Unloading Facilities" was sufficient to use as a basis for a surrogate design for
7		estimating the cost of a new rapid unloading pit using the current rail limestone pit, as an
8		example. Also, the drawings on the limestone pit conveyors (Conveyor-LB, pages 254
9		and 255) and the new truck loadout facility (p. 251) show that "hooded" or "covered"
10		conveyors were used and newly used at Big Bend. S&L added excessive cost for
11		foundations and much more expensive conveyors than those used or required at Big
12		Bend.
13		
14	Q.	Was there adequate information on the type and style of conveyors to be used as
15		
		part of the CSXT proposed system?
16	A .	part of the CSXT proposed system? The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the
16 17	A .	
	A .	The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the
17	A .	The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the limestone unloading system (Conveyor LB, docket page 25) and hooded or covered
17 18	· A .	The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the limestone unloading system (Conveyor LB, docket page 25) and hooded or covered conveyors in the new truck load out conveyor (docket pages 254 and 255). However,
17 18 19	A .	The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the limestone unloading system (Conveyor LB, docket page 25) and hooded or covered conveyors in the new truck load out conveyor (docket pages 254 and 255). However, TECO's Jimmy Konstas had told TECO's Ralph Painter (docket page 923) that more
17 18 19 20	• A .	The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the limestone unloading system (Conveyor LB, docket page 25) and hooded or covered conveyors in the new truck load out conveyor (docket pages 254 and 255). However, TECO's Jimmy Konstas had told TECO's Ralph Painter (docket page 923) that more costly fully enclosed conveyors were necessary. The September 18, 2003 S&L states that
17 18 19 20 21	A .	The drawings supplied by Dennis Barrette showed hooded or covered conveyors in the limestone unloading system (Conveyor LB, docket page 25) and hooded or covered conveyors in the new truck load out conveyor (docket pages 254 and 255). However, TECO's Jimmy Konstas had told TECO's Ralph Painter (docket page 923) that more costly fully enclosed conveyors were necessary. The September 18, 2003 S&L states that the hooded conveyors were assumed and using enclosed conveyors would be \$2,000,000

/

1	Q.	Were vendor budget quotes obtained or used by S&L to develop their cost estimate?
2	A.	The record shows no evidence of vendor contacts.
3		
4	Q.	How did S&L get its key cost information?
5	A.	The assumptions or basis used to develop the cost in S&L cost items has been requested.
6		It has not been provided.
7		
8	Q.	What are the approximate costs for the long and short conveyors in the S&L study?
9	А.	The conveyor costs by category from the S&L study are shown in the following table.
10		

	Equipment	Construction	
Construction Cost	and Material	And Erection	Total
Long Converse (2.2.000.0			I Utal
Long Conveyor @ 3,200 feet (9/18/04)	\$4,800,000	\$3,840,000	\$8,650,000
		80% of equipment	\$0,050,000
Note 9/4/04 Draft was doubled	(2,400,000)	(1,920,000)	(4,320,000)
Short Conveyor @ 500 feet	750,000	600,000	
	-	80% of equipment	1,350,000
Subtotal	\$5,550,000	\$4,440,000	£0.000.000
		+ 1, 1 10,000	\$9,990,000
			(\$2,700/L
Direct Add Ons			
Belt Feeders	\$200,000	\$80,000	#############
	, , , , , , , , , , , , , , , , , , ,	80% of equipment	\$280,000
Foundations	100,000	80,000	
	,000		180,000
Fire Protection	160,000	80% of equipment	
	100,000	160,000	320,000
Hoist and Trolley	50,000	100% of equipment	
-	50,000	20,000	70,000
Conveyor Lighting	82.000	40% of equipment	
jesgating	82,000	93,000	175,000
Subtotal		113% of equipment	,
Suctour			\$11,015,000
			(\$2,977/LF
Prorated Add Ons			(+=,> + + + + + + + + + + + + + + + + + + +
Electrical Aux Power (less			
Onveyor lights) \$2,112,000	-	-	\$1,584,000
onveyor lights) \$2,112,000			+1,001,000
otal @ Ratioed to Belt Length			
,700 / 4,995 or 75% (electric nes)			
strument and Controls		-	417,000
556,000 ratioed at 75%			417,000
OB Items \$773,640 ratioed at			590.000
5%			580,320
ther Cost and Adjustment			70.000
2,194,000 ratioed at 36%			78,000
directs at 36% of \$3,368,881			
Subtotal			1,212,077
			\$15,598,147
PC Cost at 36% of			<u>(\$4,216/LF)</u>
,920,321		1	\$1,771,316
			\$17,326,463
ontingency at 36% of			(4,794/LF)
,420,768			\$3,031,476
Total			•
			\$20,400,939
			\$5,514/LF

2

Q.

What did your vendor budget quotes show?

A. The vendor budget quotes show the following:

3	1.	Continental Conveyor estimate was for \$2,733,000 / 3,300 LF or \$828/LF and
4		would compare with S&L cost of \$2,977/LF for equipment, construction and
5		direct add ons. S&L estimate is 360% of Continental Conveyor's estimated cost.
6	2.	FMC bid was presented incorrectly with two belts tied together. FMC's bid did
7		not include foundations, and electrical lines. S&L also added a transfer house.
8		The quote was for \$5,851,000 (\pm 15% to \pm 20%). Adjusting this by subtracting
9		S&L estimate for a transfer house at \$280,000, the quote would be \$5,571,000 for
10		5,400 LF or about \$1,032/LF (\pm 15% to \pm 20%) plus the cost of foundation and
11		electrical lines and engineering. Subtracting S&L foundation cost (\$180,000),
12		electric line cost (\$1,584,000) and EPC cost (\$1,771,316) would indicate that a
13		comparable cost would be about \$3,808/LF. S&L's estimate is 370% of FMC's
14		estimate
15	3.	Cubic Storage's estimate after adjustment by EVA was about \$1,020/LF for an

Cubic Storage's estimate after adjustment by EVA was about \$1,020/LF for an
 engineered system less foundation and electrical lines. Even after removing
 S&L's estimates for foundations (\$180,000) and electric lines (\$1,584,000), S&L's
 cost for conveyors would still be \$4,317/LF or 424% of the estimate based on
 Cubic Storage System's budget quote.

- 1 Q. What was the rapid discharge cost by category from the S&L study?
 - **Construction Cost** \$1,000,000 1. Excavation 1,120,000 2. Concrete Work 3. Track Hopper Building 210,000 4. Hopper and Gizzler 280,000 280,000 5. Concrete for Conveyor Tunnel 6. HVAC (air conditioning) for track hopper and transfer house 280,000 7. Temporary Coffer Dam¹ 3,085,000 8. Dewatering 475,000 9. Conveyor 900,000 \$7,360,000 Subtotal Direct Add Ons 0 Pro-Rated Add Ons \$2,112,000 @ 25% 528,000 Instruments and Controls \$556,000 139,000 BOP Items at 25% 773,640 185,674 Other Cost and Adjustments \$2,194,000 at 24% 526,560 EPC at 24% \$4,920,321 1,180,887 \$2,560,000 Subtotal \$10,190,111 Total 1. The only subsurface work is the rapid discharge system pit. It is not clear how S&L envisioned using a Coffer dam.
- 2 A. The rapid discharge system costs by category from the S&L study are:

4

Q. What is your estimate for the rapid discharge system?

- 5 A. I estimate the cost would be \$1,590,391 including engineering. S&L's estimate is **640%** 6 of my estimate, including the coffer dam and dewatering costs. If the coffer dam and 7 dewatering are unrelated to rapid discharge system, S&L's estimate would be \$6,630,111 8 or 417% of my estimate.
- 9

10 Q. Do you have any idea why S&L's costs are substantially higher than your estimates

- 11 or CSXT's estimate?
- 12 A. It is my opinion that S&L included unnecessary items such as the coffer dam and
- 13 dewatering, and redundant items such as lighting, fire protection, foundations, belt

1		feeders, hoists, and trolleys that were possibly included in the already overpriced
2		conveyor estimate. S&L may have estimated the cost for the wrong type of conveyors.
3		
4	Q.	What are the types of conveyors that might have been incorrectly estimated by
5		S&L?
6	A.	The types of conveyors incorrectly estimated by S&L are:
7		1. Open Conveyors. Open to the atmosphere, with no cover or enclosure. These
8		are the lowest cost conveyors.
9		2. <u>Covered Conveyors</u> . Also known as hooded conveyors or enclosed conveyors,
10		these conveyors are covered on the top but not on the bottom and are slightly
11		more expensive than open conveyors.
12		3. Enclosed Convevors to prevent spillage into traffic, people, passing underneath.
13		Enclosed conveyors are more expensive than covered conveyors.
14		
15	Q.	What are the types of conveyors required?
16	А.	The original and new conveyors are covered or hooded. TECO's old and current air
17		permit calls the existing conveyor "enclosed."
18		
19	Q.	Could S&L have been confused?
20	Α.	It is unlikely because in the final report, S&L stated that they assumed the conveyors
21		were hooded and that if enclosed the cost estimate would be increased another
22		\$2,000,000 (page 4 of S&L's report).
23	10	

1	Q.	Would increasing the belt from 54 inches that was proposed by CSXT to the 60-inch
2		wide conveyor that S&L used for estimating purpose account for the increased cost?
3	A.	No. This would increase cost 8% over a 54" belt not 350% or more. Also, all three
4		vendors selected a 54-inch belt for the 2,500 TPH systems. Further, Big Bend has a 54-
5		inch belt in its coal yard rated at 4000 TPH (belt No. 1-Conveyor per Table C-4A WL50
6		Conveyor Physical Data in their coal yard manual). S&L's 60-inch belt size is unusual.
7		
8	Q.	Are you familiar with any proprietary model that S&L may have used?
9	A.	Yes. S&L developed software (SOAPP) TM standing for State of the Art Power Plant
10		under sponsorship of EPRI (Electric Power Research Institute). This model is described
11		in a paper entitled "Using the SOAPP Workstation TM for Planning and Conceptual
12		Design" presented at the International Symposium on Improved Technology for Fossil
13		Power Plants (March 1-3, 1993).
14		
15	Q.	Was this model used?
16	Α.	I do not know. The categories are similar to the above paper but no evidence that any
17		improved efficiency, enhanced availability, or cost-effectiveness efforts were made.
18		S&L may have plugged in numbers and used their model format to print out the
19		assumptions that were externally made. The fact that so many of the results were exact
20		multipliers of \$70,000 and used 40% installation factors is an unlikely result of the above
21		model and more likely resulted from external inputs bypassing the modeling capability of
22		the software.
23		

24.

Q. Did the above model round off cost?

A. No. The sample calculation presented in the EPRI paper carried calculations to 3 to 6
3 significant digits.

4

5 Q. Would you rely on the S&L cost estimates?

A. No, the S&L cost estimates are too high relative to vendor supplied and recognized cost
 estimating guidelines. The S&L estimates appear not to have been based on site visits or
 vendor quotes. The bases for the cost estimates are unexplained.

9

10 Q. Should TECO have questioned this document?

A. Yes. A major utility with over 2 miles of conveyors at Big Bend (some recently built) for
 coal, limestone and gypsum should have sufficient expertise to evaluate and question the
 S&L cost estimates. TECO's engineering department should have been able to do the
 estimate of CSXT's proposal and evaluate S&L's cost estimates.

15

16 Q. Did TECO review the S&L study?

17 A. It appears that Ralph Painter was the individual to oversee the report. There is no record
18 that he critiqued the report.

19

EVALUATION OF SARGENT & LUNDY'S O&M COST ESTIMATES

- 20 Q. Did CSX Transportation prepare an estimate of operation and maintenance
- 21 ("O&M") cost, property tax increases and insurance increases associated with its
- 22 proposed rail unloading systems at Big Bend?
- 23 A. No.

1	Q.	Did S&L prepare an estimate of O&M costs, property taxes, and insurance cost
2		increases in its September 18, 2003 report number SL-008160 for Big Bend?
3	А.	Yes.
4		
5	Q.	Have you reviewed S&L's O&M, tax, and insurance cost estimates for the rail
6		delivery system at Big Bend?
7	A .	Yes.
8		
9	Q.	Do you agree with S&L's findings in Exhibit 2A-3 titled "Operating Cost Estimate
10		for 2-5.5 million Ton Rail Delivery of Coal Big Bend"?
11	А.	No. For the reasons set forth below, I believe that S&L overstated O&M costs.
12		
13	Q.	Do you disagree with S&L's variable cost for power in Exhibit 2A-3?
14	А.	Yes, I disagree.
15		
16	Q.	Why do you disagree?
17	A .	The stated additional power cost estimated by S&L is between \$68,000 and \$128,000.
18		The details of how this was calculated were not provided. However, S&L failed to
19		deduct the power savings resulting from not using the coal dock unloading system.
20		
21	Q.	Is the savings more or less than the power used by the proposed CSXT rail system?
.22	А.	The savings resulting from using the proposed CSXT rail system would be more than the
23		power used to unload coal from barges. The CSXT system would reduce power usage
24		for coal handling, not increase it.

- Explain why the CSXT rail coal delivery would save power during unloading. 1 0. There are two main reasons. First, the current dock unloading system is designed for 2 Α. 4,000 TPH to accommodate the barge bucket elevator. The clamshell normally operates 3 at an average of between 2,000 TPH and 2,500 TPH, and electricity is less efficiently 4 used when oversized equipment is used. Second, the power to lift coal on conveyors is 5 6 more than level conveyor transport. The dock lifts the coal up about 40 feet above the 7 dock with the clamshell and 60 feet with the bucket elevator. Added to this lift is the 8 initial lift from the barge to the dock level, which is about another 15 feet. Thus, the lift 9 for the dock equipment is 55 to 75 feet. The coal is then dropped down to the dock level and conveyed horizontally. Then the coal is lifted again about 35 feet to the coal yard 10 transfer house. Therefore coal is lifted 90 to 110 feet in the dock operation. The CSXT 11 12 system would drop coal from the rail car about 20 feet to a below ground hopper. Then 13 the coal would be conveyed to the surface to the same coal yard transfer house up another 14 35 to 40 feet to the coal yard transfer house. Thus the rail systems would lift the coal 55 15 to 60 feet. Consequently, rail-delivered coal needs to be lifted to heights about 55 to 60% 16 of the total lifting height required by the current barge-dock system. 17 18 0. How much power would be saved by the rail system? 19 Α. Around 25% less power would be required. At the same cost values used by S&L, there 20 would be a net savings of about \$17,000 to \$32,000, instead of an increased cost of **\$68,000 to \$128,000**. This would reduce S&L's estimated O&M cost by **\$85,000 to** 21 22 \$160,000 per year. 23
- 24

1	Q.	Do you agree with S&L's variable cost increase for surfactant in Exhibit 2A-3?
2	A.	No.
3		
4	Q.	Why do you disagree?
5	A.	The use of surfactant is a function of the volume of coal delivery. The total amount of
6		coal used at Big Bend would be the same whether or not the coal is delivered by barge or
7		rail. Thus, the amount of surfactant used and the cost of surfactant would not increase.
8		There would be no variable cost increase for surfactant at Big Bend for a rail system.
9		There is, however, a need to invest in another dust suppression system, which uses the
10		surfactant; this cost is recognized in my capital cost estimates above.
11		
12	Q.	Do you agree with S&L's variable labor cost for CSXT's proposed system at Big
13		Bend in S&L's Exhibit 2A-3?
14	A.	No. First, the labor costs were not derived by S&L's analysis. The costs were given to
15		S&L by TECO in Ralph Painter's September 3, 2003 9:13 p.m. e-mail. Painter's
16		estimate is five additional people, three process specialists and two laborers. This is
17		excessive.
18		
19	Q.	What do you think the variable labor cost should be?
20	A .	Since both a barge and train cannot be unloaded simultaneously and since the current
21		unloading staff must be available around the clock, it is possible that no additional staff
22		will be needed. However, an individual manning the security gates for the train and
23		process specialist manning the equipment could be needed.
24		

1	Q.	What do you believe the variable operating labor cost should be?
2	А.	It should be between no increase and \$157,440; that being based on TECO's cost for a
3		process specialist and a laborer.
4		
5	Q.	Do you agree with the fixed labor cost estimate in S&L Exhibit 2A-3?
6	А.	Yes. There is now about 11,000 to 12,000 feet of conveyor at Big Bend in the coal yard,
7		limestone systems, and gypsum systems. If CSXT's proposal adds 3,800 feet of
8		conveyor, this represents around a 33% increase and up to five people may be needed as
9		proposed by TECO and S&L.
10		
11	Q.	Do you agree with S&L's fixed maintenance cost of \$825,720 at 3% of installed
12		cost?
13	Α.	No. The 3% factor is in the correct range; however, the installed cost of the rail delivery
14		system is more properly estimated at \$7,100,000 for the Big Bend system to unload coal.
15		Thus, the fixed maintenance cost should be about \$213,000 per year, not \$825,720.
16		
17	Q.	How is the \$573,900 in the S&L Exhibit 2A-3 split between taxes and insurance?
18	А.	Based on TECO's Ralph Painter's September 3, 2003 memo to S&L, \$12,386 is
19		projected insurance cost and \$561,514 is for taxes.
20		
21	Q.	Are the projected taxes on property correct?
22	А.	No.
23		
24		

1 Q. Why?

2	A .	The property upon which Big Bend was built is Folio Number 051461-000, PIN Number
3		PU-09-31-19-ZZZ-000001-73650.0 per Hillsborough County records. It has an
4		appraised "building value" of \$31,328,418 and a "land value" of \$16,433,413 with an
5		"extra feature value" of \$2,822,877. Thus total "taxable value" is \$50,584,708.
6		Subtracting the "land value", the "taxable value" is \$34,151,295. Last year TECO paid
7		\$1,330,888.27 or 2.63% of appraised value. A rough estimate of actual value of the
8		capital cost for Big Bend is \pm \$1,000/kw of capacity multiplied by 2,080,000 kW (2,080
9		MW) of capacity. Thus the capital cost of Big Bend is about \$2,080,000,000 (\$2.08
10		billion). The tax appraisal, less the land, is \$34,151,295 or 1.64% of the above rough
11		capital cost. Treated the same way by the tax assessor the taxable value of \$7,100,000 is
12		\$116,574. The estimated tax increase would be 2.63% of \$116,574 or \$3,066.
13		
14	Q.	Have you spoken to a Hillsborough County Appraiser?
15	Α.	Yes.
16		
17	Q.	What was his response?
18	A.	Jim Gibson, of the South County office of the Hillsborough County Property Appraiser's
19		Office, felt that a \$10,000,000 conveyor system was a tangible asset and would not
20		materially increase the property value and the tax impact would be negligible. He
21		referred me to TECO's David Keene. Mr. Keene did not comment and referred me back
22		to Mr. Gibson.
23		
24		

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Q.

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\$12,386 as stated in the S&L Exhibit 2A-3.

See my table below.

Do you agree with TECO's insurance rate of 0.04500% of capital cost?

The rate seems reasonable. However, since CSXT's proposed rail unloading system is

expected to cost \$7,100,000, the actual cost is likely to be about \$3,195 per year, not

- Q. Based on the above answer, what would your estimate be of the operating cost of
 CSXT's rail coal delivery system as compared to the estimate made by S&L?
- 9

8

Α.

	EVA E	stimate	S&L Estimate	per Exhibit 2A-3
Variable		•		
Power	(\$17,000)	(\$32,000)	\$68,000	\$128,000
Surfactant	0	0	97,000	266,000
Labor	0	157,440	0	0
Fixed				
Labor	\$301,308	\$301,308	\$301,308	\$301,308
Maintenance	213,000	213,000	825,720	825,720
Taxes	3,066	3,066	561,514	561,514
Insurance	3,195	3,195	12,386	12,386
Total	\$503,569	\$646,009	\$2,167,200	\$2,697,500

10

11 Q. Have you reviewed similar operating costs for the 1.0 to 2.0 MM ton per year CSXT

12

case, the Polk shuttle train option, and the Polk unloading system?

13 A. Yes. They are similarly overstated, except for the power cost.

14

15 Q. Why are there no power cost savings at Polk?

16 A. The Polk shuttle loading at Big Bend and Polk unloading systems will have an increase in

- 17 electrical use at each location, as these are new systems.
- 18

EVALUATION OF SOLID FUEL BLENDING CAPABILITY AT BIG BEND STATION

1 Q. Can different coals or pet coke be blended at Big Bend?

- 2 A. Yes. The Big Bend coal handling system was designed for blending and has a versatile
 3 system for blending coal.
- 4

5 Q. Can you briefly describe the coal handling system at Big Bend?

6 Α. Yes. Currently the coal is unloaded by barge then lifted by a bucket elevator or a 7 clamshell, or less frequently by barge self-unloaders. It then is lowered or discharged to 8 a south moving dock conveyor and is lifted to a dock transfer house and lowered a second 9 time. The coal is lifted and conveyed eastward, at right angles to the dock, to a second 10 transfer house. At this second transfer house, the coal can be directed to one of two main 11 conveyors. This second transfer house is where three CSXT, S&L and three-30-car train segment systems all would deliver coal. From this point, the coal pathway through the 12 13 yard would be the same for barge source or rail source coal. From this second transfer 14 house the southern main east-moving conveyor is fed. A shorter north-moving conveyor 15 feeds the northern main east-moving belt.

Both main east-moving belts feed one of two stacker-reclaimers serving each main belt. Both of these stacker-reclaimers can move east or west along the two respective main belts, both can place the coal on either the northern coal storage area or the southern coal storage area, and both can out-stack coal into the center coal area. Additionally there is a dead storage yard south of the south storage area. These coal storage yards can hold about 1,078,000 tons (at 45° stacking, 54#/ft³, 40 feet high). There is an overflow storage capacity in the south and west area of the coal yard. It requires a

bulldozer, loader, or scraper (pan) to move the coal to this area and a bulldozer, loader, or
 scraper (pan) to move the coal back into the area reachable by the south stacker reclaimer.

Retrieving or reclaiming the coal is equally flexible as out-stacking. Both stacker-reclaimers can be positioned on these two main belts and reclaim coal by placing it back on either of the main belts. Both stacker reclaimers can simultaneously retrieve coal. Big Bend also has two mobile conveyors that can be placed anywhere in the yard and fed with a loader. Thus up to four coal or pet coke types can be blended at any one time. The selected coals are fed by both main conveyors to two shorter conveyors to a blending tower.

11 The blending tower feeds two belts to six 2,000-ton silos for a total of 12,000 tons 12 of capacity and six possible different blends of coal. Under the six silos are two bottom 13 hoppers each that can feed the two belts. Thus two different coal blends can be again 14 blended or re-blended and sent to the crusher house. The coals leave the crusher house 15 northward via two belts that feed northward to another transfer house that feeds the boiler 16 day bins with two belts.

17In summary, many types of coal can be placed in the coal yard and up to 4 coals18can be blended at any one time and sent to 6 different blend silos. The 6 different19blending silos can be re-blended because they have double bottom hoppers to feed two20independent belts. The coal storage yard and blend silos have a total capacity of about211,090,000 tons.

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- Does TECO agree with this description? 1 Q. Yes. TECO's document "Tampa Electric: Big Bend Station: Coalvard Operator 2 A. Training Manual" which is 245 pages long goes into every detail of the above summary. 3 4 5 Do any documents indicate how many types of coals are available for blending? Q. Yes, the diagram labeled "Coal Field General Arrangement 2004 – Current Yard" shows 6 A. eight different fuel types, seven different coals and a pet coke area. 7 8 9 Q, You estimated that the coal yard could hold 1,028,000 tons. Has Big Bend ever had 10 anywhere near that capacity? Yes, TECO's document "Tampa Electric Company, Big Bend Station, Fuel Inventory, 11 A, 12 April 1999" shows that 1,041,730 tons with 10 different coals or pet coke fuels. 13 14 Q. Will the 2.0 to 5.0 MMTPY CSXT system impact Big Bend's blending capabilities? 15 No, the CSXT 2.0 to 5.0 MM ton per year system will feed the second transfer house that Α. 16 is presently fed by the dock area. From there, coal can be blended just as it is at present. 17 18 0. Will the 1.0 to 2.0 MMTPY CSXT system impact Big Bend's blending capabilities? 19 A. Yes. The CSXT 1.0 to 2.0 MMTPY system would put the coal in reach of the southern 20 main belt reclaimer and in the dead storage area in the south and west area of the coal 21 yard. The result would be that the coal yard would then have less flexibility than at
- present. Even so, the coal handling facilities at Big Bend Station will continue to have
 excellent blending capabilities following the installation of either of the proposed CSXT
 rail delivery systems.

- 1 Q. Does this conclude your direct testimony?
- 2 A. Yes.

RESUME OF

JOHN B. STAMBERG, P.E.

EDUCATIONAL BACKGROUND

1967 1966 M.S. (Sanitary Civil Engineering), Stanford University B.S. (Civil Engineering), University of Maryland

PROFESSIONAL EXPERIENCE

1981-Present

Energy Ventures Analysis, Inc. Vice President

Mr. Stamberg is responsible for directing Energy Ventures Analysis, Inc. (EVA) engineering studies. His areas of expertise include utility and industrial boilers; combustion turbine and combined cycle powerplants; electric, combustion turbine and reciprocating powered natural gas pipeline compressors, mining engineering, and pollution control systems for air and water.

Mr. Stamberg has developed capital and O&M cost for a variety of natural gas compression options for LDC's, utilities and EPRI, including fixed speed and variable speed electrical compression, combustion turbine compression, and reciprocating compression, as well as conversion of existing reciprocating units to electric drive. He has performed numerous studies on the pipeline delivery capacity and cost of looping or adding compression to existing interstate and intrastate pipelines. He has prepared feasibility studies of routes, compression needs, and cost of supplying electric utilities and industry switching to natural gas. He has performed on-site evaluations of booster compression needed to supply new combustion turbines with the higher pressure demands of these units. He has engineered energy recovery systems for greenhouse heating using natural gas compressor drive exhaust, and evaluated compressed air energy storage and recovery to generate electricity.

Mr. Stamberg has also conducted a variety of studies of utility and industrial boiler and combustor facilities for fuel choice, efficiency, and environmental control. He has assessed a broad range of combustion, cogeneration, and environmental control systems. He recently completed work for EPRI on utility derating caused by switching pulverized coal boilers from Illinois Basin coal to various types of low-sulfur coals. He has prepared the industrial coal demand analysis for COALCAST reporting service using his knowledge of boiler engineering, boiler capital cost, and boiler operating cost.

> EXHIBIT NO. (JBS-1) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 3

> > ۰<u>،</u> :

Mr. John B. Stamberg Page Two

Mr. Stamberg has prepared feasibility studies, design cost evaluations, labor productivity studies and equipment inspection for the coal mining industry. His experience with underground mining covers conventional sections, continuous miners, mixed sections, and longwall having a variety of seam and roof conditions. His surface mining experience covers contour, open pit and mountaintop surface mining with large capacity draglines, shovels, or conventional truck/loader equipment. He has prepared feasibility studies, designed and inspected coal preparation facilities from those with simple coarse circuit technology to those with complex multi-circuited systems. He has conducted a variety of site investigations and sampling programs and prepared a variety of environmental assessments, reclamation studies and permit applications for the mining industry. He has used his knowledge to provide capital and operating costs for use in EVA's economic and financial analysis of mining and reclamation plans, coal price analyses, coal competition evaluation studies, and coal company acquisition studies.

1974-81

Energy and Environmental Analysis, Inc. Director

In addition to his responsibilities for water pollution control, Mr. Stamberg managed both the reactivation and the conversion from natural gas or coal of industrial boilers. This work included design specifications and purchase of coal unloading, storage, ash handling, and reclaiming equipment. He was responsible for structural inspections and analysis of the boiler buildings, coal silos, and duct and stack supports. He has evaluated a second generation fluidized bed combustor (FBC) using petroleum coke as a fuel to support process steam and electricity to a petrochemical process.

Mr. Stamberg has designed a mineral processing system for Virginia Vermiculite, Ltd. which utilizes an integrated series of hydraulic sizers, classifiers, screenings, cyclones, rock floatation, vermiculite floatation, tables, vacuum filtration, and drying. He has also performed engineering and economic feasibility studies on five locations for a centralized coal cleaning and unit-train tipple in West Virginia. He has performed various coal cleaning studies for DOE, and reviewed technological developments at various DOE labs/facilities involving conventional cleaning to solvent refined coal (SRC).

Mr. Stamberg has directed and participated in a variety of environmental and permit studies for coal and mineral mining activities. He has conducted numerous site visits, prepared permit applications and prepared environmental impact statements or assessments on a variety of coal mines in most major coal producing states of Northern, Central and Southern Appalachia as well as in the western states of Colorado and Wyoming. He has done similar studies for phosphate rock, sand and gravel, limestone, and vermiculite mining industries.

> EXHIBIT NO. (JBS-1) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 2 OF 3

Mr. John B. Stamberg Page Three

1972-74

U.S. Environmental Protection Agency Office of Air and Water Programs Chief, Municipal Technology Branch

Formulated policies and regulations required to implement PL92-500. Responsible for area-wide planning, facilities planning, effluent guidelines for municipal pollution control, operation and maintenance of advanced waste treatment facilities, combined sewer control, urban run-off, and costeffectiveness analysis.

U.S. Environmental Protection Agency Office of Research and Development National Environmental Research Center Chief, Biological Treatment

Developed research objectives; designed and operated pilot- to full-scale plants to achieve various effluent objectives using a variety of biological or biological/chemical treatment techniques. Did engineering development work which was the basis for design for the District of Columbia's 309 MGD advanced waste treatment at Blue Plains and numerous other advanced waste treatment plants.

HONORS

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1967-71

Chi Epsilon National Civil Engineering Honor Fraternity

Pi Mu Epsilon Honorary Mathematical Fraternity

Phi Kappa Phi Honor Society

Phi Theta Kappa National Honorary Scholastic Society

U.S. EPA Bronze Medal for Commendable Service

PROFESSIONAL REGISTRATION AND MEMBERSHIPS

Registered Professional Engineer, Delaware, Louisiana Water Pollution Control Federation Federal Water Quality Association

PATENTS AND PUBLICATIONS

Holder of Wastewater Treatment Systems and Mineral Processing Patents Pending and has 17 technical publications,

EXHIBIT NO. ____ (JBS-1) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 3 OF 3 RSMeans.

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1997 1996	111.5 108.9	92.0	139.8	104.6	104.7	121.3	107.8	117.5	111.5	113.1	108.9	101.9	107.2	104.5	111.1	108.0	EXHIBLT NO. JOHN B. STR
1995	105.6	88,6 87,4	134.5 130.3	102.2 99.5	102.1 98.2	118.8	106.6	116,2	109.3	111.5	106.5	100.0	102.1	99.9	110.3 107.5	105.2 102.7	E X E
1994	103.0	\$5.3	124.0	9 <u>1.</u> 9	95.0	114.2 111.3	98.5 97.3	110.5 108.9	102.3	103.6	98.1	96.4	97.2	95.0	100.7	1 100.1	ЩĻ
1993	100.0	82.0	122.0	92.2	92.1	107.6	95.6	106.8	100.9 98.9	102.2 99.6	97.0 95.2	93.6 91.2	95.8 94.3	93.6	99.1	97.1	
1992 1991	97.9 95.7	80.8	120.0	91.0	91.0	104.3	94.4	104.2	97.3	98.2	94.0	89.5	92.9	91.5 89.9	<u>96.7</u> 95.0	93.9	
1990	93.2	79.5 77.9	106.1 104.7	89.5 88.2	89.4 88.1	100.9	92.3	100.0	95.9	95.8	91.5	87.8	91.4	88.3	93.3	91.5 89.1	- 5 82-0
1989	910	76.0	102.8	86.6	86.5	98.4 .93.7	90.9 89.4	98,4 92,8	93.7 91.6	94.0 92.1	90.1	84.6	89.3	83.4	88.4	87.1	
1988	88.5		<u>_101.1</u>	83,9	83.7	90.6	87.5	89.8	88.5	87.9	88.6 86.8	82.3 80.8	87.8 85.5	81,7 80,0	86.5 84.6	85.1 83.1	
1987 1986	85.7 83.7	72.0	99.1 ⁻ 97.5	81.4	81.5	86.6	84.4	86.7	86.3	85.2	85.0	78.8	82.4	78.1	81.7	80.4	
1985	81.8	68.9	91.7	80.6 78.0	80.3 78.0	84,4 82,4	83.5 81.9	85.3	85.1	84.5	83.4	77.0	80.9	76.5	79.6	78.6	
1984	80.6	67.9	90.7	76.6	76.8	80,2	80.4	83.4 82.2	83.7 83.6	83.0 80.6	81.5 80.1	75.2	79.8	75.0	77.8	77.1	
1983	78.2	66.3	87.2	76.0	75.8	79.0	78.8	80.6	81.5	78.9	78.8	73.5 70.9	77.4 75.0	73.5 71,2	77.3 75.2	75.9 74.0	8
1982 1981	72.1 66.1	-61,1 -57,1	193	71.0 65.4	70.1	75.0	72.7	74.4	75.3	72.6	72.7	66.4	69.8	67.1	70.5	682	
. 1980	60.7	52.2	68.9	60.3	64.8 59.5	68.6 62.8	67.2 62.3	68.8 63.4	70.3	67.3	67.0	61.5	64.3	61.5	65.3	62.4	
1975	43.7	36.9	44.6	40.8	40.5	45.7	43.1	44,5	64.5 44.7	61.6	61.1 42.4	56.5 39.5	59.0	56,7	59.8	57.9	
1970	27.8	21.0	30.4	26.7	26.6	29.1	28.0	28.6	29.0	27.5	27.6	25.4	41.7 26.4	39.9 25.5	41.9 27.1	40.6 26.2	ō
1965 1960	21.5 19.5	16.4 14.9	21.8 19.8	20.6 18.7	20.5	22.7	21.5	22.1	22.4	21.2	21.3	19.5	20.4	19,7	20.8	20.2	STORICAL
1955	16.3	12.5	16.6	15.7	18.6 15.6	20.2 16.9	19.6 16.4	20.0	20.3	19.2	19.3	17.7	18.7	17.9	18.9	18,4	
1950	13.5	10.3	13.7	13.0	12.9	14.0	13.6	13.9	17.0 14.0	16.1 13.3	16.2 13.4	14.9 12.3	15.7 12.9	15.0	15.9	15.5	
1945 1940	8.6 6.6	6.6 5.1	8.8 6.8	8.3	8.2	8.9	8.6	8.9	9.0	8.5	8.6	7,8	8.3	12.4 7.9	13.1 8.4	12.8 8,1	
		5.1	0.0	6.4	6.3	6.9	6.7	6.8	6.9	6.5	6.6	6.0	6.4	6.1	6.5	6,3	1 1 (1 H - 27

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DODGE C

FAX NO. 7032769541

P. 19

INCLUDES \$150 COUPON TOWARDS PRECISION BASIC ESTIMATING SOFTWARE

Unit собт воок 1999

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EXHIBIT NO. (JBS-2) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 3 OF 6



1999 DODGE UNIT COST BOOK

Dodge Unit Cost Book

Local Multipliers

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•	Emony	3 4/10-7-	•	,		Ĩ	, July			lastics.	Molet a			¹ ndo me	2	's ler				1 (tž.)	<u>r</u>		
	5 Sr - General Requirement	02 - 31 eres	EJDe-5'E	tta - Concreta	22.4 Ferring	áb.) Reiginzster	3c.) Concrete any	Ou . ILESOULY	DS - Lielais	06 - Wood and Plastics	07 - Therm. And Molet D	7 a .) Ipsulation	75.) Rocing	08 - Doors and Windows	G9 - Finishes	94) Lain and Pisser	^{ری} ا	Sty Frenn	Seri, Panne,	Divisions to Incursh 1	15 - Mechenical	16 - Electrical	, and the second se
•	5	8	×۷	8	~5	्म	(5) 	z	8	8	.6	~	~	8	ŝ	ьў 	ð{	क	6£	Divis	5	5	Cveral;
Flor	Ida									_										·			
324	0.71	0,87	0.69	0 83	0.79	0.80	0.87	0.78	0.71	0.02	0.85	0.90	0.80	0.84	0.77	0 75	83 0	079	0.70	0.86	091	0.90	0.1
\$25 325	0.72	0.01	0.60	0.84	0.81	0.78	0.90	0.82	0.71	0.94	0.87	0.90	0.83	0.85	0.85	0.86	0.91	0.83	0.82	0.07	0.93	0.90	0.
	D.7A	0.90	0.78	0.85	0.85	0.78	0.91	0,75	0.86	0.92	0.89	0.92	0.86	0.87	0,87	0.82	0:94	0 82	0.83	0.89	0.90	0,89	0.
327	0.71	Q.85	0.69	0.80	0.79	0.63	0.97	0,80	0.84	0.90	0.87	0.86	0.86	0.88	0.66	0.89	0.87	0.83	0.81	0.66	0.86	0.90	0.
324	0.71	0.85	0.63	0.88	0.79	0.83	0.97	0.80	0.64	0.90	0.87	0.86	0.86	0.88	0.86	0.89	0.87	0.83	0.81	0.86	0.86	0,90	0.
328	0.60	0.80	0.81	0.83	0.79	0.81	0.87	0.70	0.84	0.83	0.85	0.85	0.85	0.87	0 B2	0.84	0.89	0.79	0.84	0.91	0.87	0.90	0.
930 931	0.72	0.83	0.67	0.80	0.77	0.86	0,73	0.63	0.95	0.86	0.91	0.92	0.89	0.91	0.68	0.81	0.84	0.87	0.79	0 89	0.90	0.93	0.
331	0.72	0.83	0.07	0.80	0.77	0.88	0.73	0.83	·0.95	Q.86	0.91	0.92	0.89	0.91	0.88	0.81	0.84	0.87	0.79	0.69	0.90	0.93	0.
332	0,72	0.03	0.67	0.80	0.77	0,88	0,73	0.83	0.95	0.86	0.91	0.92	0.89	0.91	0.68	0.81	0.84	Q.87	0.79	0.09	0.90	0.93	0.
133	0.73	0.86	0.69	0.00	0.77	0.85	0,75	0.84	0.95	0.86	0.91	0.91	0.89	0.90	0.89	0 83	0.85	0.87	0.79	0.92	0.92	0.95	0.
314	0.71	0.87	0.64	0,79	0.75	0.86	0.72	0.80	0,95	0.86	0.91	0.90	88.0	0.90	0.85	080	0.84	0.85	0.78	0.92	0.93	0.95	0.
235 336	0.73	0.00	0.67	0.93	0.83	0.90	1.01	0.83	0.87	0.03	0.87	0.86	0.84	0.91	0.87	0.84	0.91	0.85	0.81	0.89	0.68	0.92	0.
	0.75	0.00	D.09	0.85	0.85	0.90	1.03	0.83	0.91	0.93	0.87	0.87	0.84	0.91	0.68	0.86	0.93	0.81	0.84	0.90	0.60	0.90	0
837	0.74	0.88	0.09	0.94	0 83	0.90	1.01	0.84	0.87	0.93	0.87	0.86	0.84	0.91	0.67	0.84	0.91	0.85	0.82		0.86	0.92	C
358 336	0.74	0.38	0.00	0.93	0.82	0.90	1.01	0.84	0.87	9.92	0.87	0.87	0.84	0.91	0.87	0.84	0.91	0.65	0,B2	0.69	0.88	0.92	a.
340	0.70	0.87	0.65	88.0	0.75	0.87	0.97	0.79	0.87	0.88	0.66	0.63	0.85	0.68	0.83	0.64	0.64	0.82	0,75	0.86	0.87	0.91	D.
_	0.72	0.03	0.67	0.80	0.77	0.88	0.73	0.83	0.96	0.86	0.91	0.92	0.89	0.91	0.88	0.81	0.84	0.87	0.79	0.69	0.90	0,93	0.
341 342	0.73		0.60 0.67	0.88	0.75	0.87	0.97	0.79	0.87	0.88	98.0	0.83	0.85	0.88	0.83	0.84	0.84	0.82	0,75	0.86	0.87	0.91	0.
344	0.73	0.08 0.08	0.67	0.93 0.93	0.83 0.83	0.90	1.01 1.01	0.83	0.87	0.93	0.87	0.66	0.84	0.91	0.87	D.84	0.91	0.85	0.81	0.89	0.88	0.92	Ø.
346	0.73	0.86	0.07	0.93	0.83	0.90	1.01	0.83	0.87	0.93	0.87	0.86 0.00	0.84	091	0.87	0.84	091	0.05	0.81	0.89	0.88	0,92	0.
147	0.71	0.85	0.63	0.88	0.79	0.63	0.97	0.63 0.60	0.87	0.93	0.87	0.86	0.84	0.91	0.87	0.84	0 91	0.85	0.81	0.89	0,80	0.92	0.
348	0.71	0,07	0,64	0.79	0.75	0.85	0.72	0.80	0.84	0.90 0.86	0.87 0.91	0.86	0.86	0.88	0.80	0.89	0.87	0.83	0.61	0.86	0.86	0.90	0.
Geo				4.14	040	0.00	0.72	0.60	0.90	0.00	4.31	0.90	0.88	0.90	0.85	0.80	0.84	0.85	D.78	0.92	0.99	0.95	0.
300	0.75	0.89	0 73	0,89	0.80	0.90	0.93	0.83	0.86	0.90	0.00	0.01	0.00	0.89	0.07	0.00	0.07	0.05					
801	0.76	0.89	0.73	0.89	D.80	0.90	0.93	0.83	0.86	0.90	0.90 0.90	0.91 0.91	0.88 0.88	0.89	0.87 0.87	0.92	0.07	0.85	0.87	0.89	0.94	0.98	0,
302	0.78	0.94	0.73	0.91	0.82	0.95	0.94	0.85	0.92	0.92	0.91	0.91	0.68	0.09	0.87		0.87	0.85	0.87	0.89	0.94	88.0	0.
301	0.78	0.94	0.73	0.91	0.82	0.95	0.94	0.65	0.92	0.92	0.91	0.91	0.88	0.91	0.89	0.92	0.89	0.87 0.87	0.86	0.92	0.97	1.00	0
304	0.71	88.0	0.60	0.82	0.84	0.82	0,80	0.74	0.85	0.93	0,88	0.90	0.85	0.87	0.81	0.78	0.09	0.80	0.86	0.92	0.97	1.00	0.
305	0.72	0.87	0.70	0.87	0.79	0.83	0,93	0.84	0.82	0.89	0.89	0.89	0.88	0.87	0.86	0.88	0.86	0.80	0.69	0.87	0.93	0.94	0.
306	0.73	0.87	0.70	0.86	0.79	0.65	0.93	0.84	0.82	0.89	0.89	0.89	0.88	0.88	0.86	0.88	0.80	0.85	0.85	0.87	0.92	0.96	0,
367	0.75	0.89	0.73	0.89	0.80	0.90	0.93	0.63	0.86	0,90	0.90	0.91	0.88	0.89	0.87	0.92	0.87	0.05	0.03	0.89	0.92	0.96	0. 0.
306	0.71	0.08	0.66	0.82	0.84	0.82	0.80	0.74	0.85	0.93	0.88	0.90	0.85	0.87	0.81	0.78	0.94	080	0 69	0.87	0.93	0.94	0.
309	0.71	66.0	0.66	0.82	0 84	0.R2	0.80	0.74	0,85	0.93	88.0	0.90	0.85	0.87	0.81	0.78	0.94	0 80	0.69	0.87	0,93	0.94	0.
310	0.70	88.0	0.65	0.87	0 81	0.91	0.88	075	0.87	0.92	0.91	0.93	0.86	0.88	0.81	0 80	0.89	0.62	0.00	0.07	0,93	0.94	a.
31 1	0.78	0.94	0.79	0.01	0.82	0.95	0.94	0.85	0.92	0.92	0.91	0.91	0.88	0.91	0.89	0.92	0 89	0.87	0.86	0.92	0.97	1.00	0.9
512	0.71	0.89	0.61	0.89	0.79	0.95	0.93	0.78	0.86	0.92	0.69	0.89	0.87	0.87	0.80	0.63	0.86	0.82	0.82	0.87	0.93	0.94	0.
515	0.72	0.08	0.68	0.04	0.82	0.88	0.85	0.77	0.89	0.93	0.93	0.99	0.85	0.84	0.82	0.78	0.92	0.81	0.83	0.87	0.91	0.91	0.
314	0.72	0.86	0.08	0.84	0.82	0.88	0.85	0.77	60.0	0.93	0.93	0.89	0.85	0.84	0.62	0.78	0.92	0.81	0.83	0.87	0.91	0.91	0.
816	0.67	0.85	0.61	0 84	0.77	0.81	0.90	0.75	0.82	0.90	0.85	0.90	0.79	0.82	0.79	0.83	0.87	0.81	0.73	0.80	10.89	0.88	0.
\$16	0.60	0.85	0.65	0.84	0.78	0.82	0.90	0.72	0.82	0.89	0.84	0.87	0.80	0.84	0.74	0,77	0,88	0.78	0.71	territies.			J

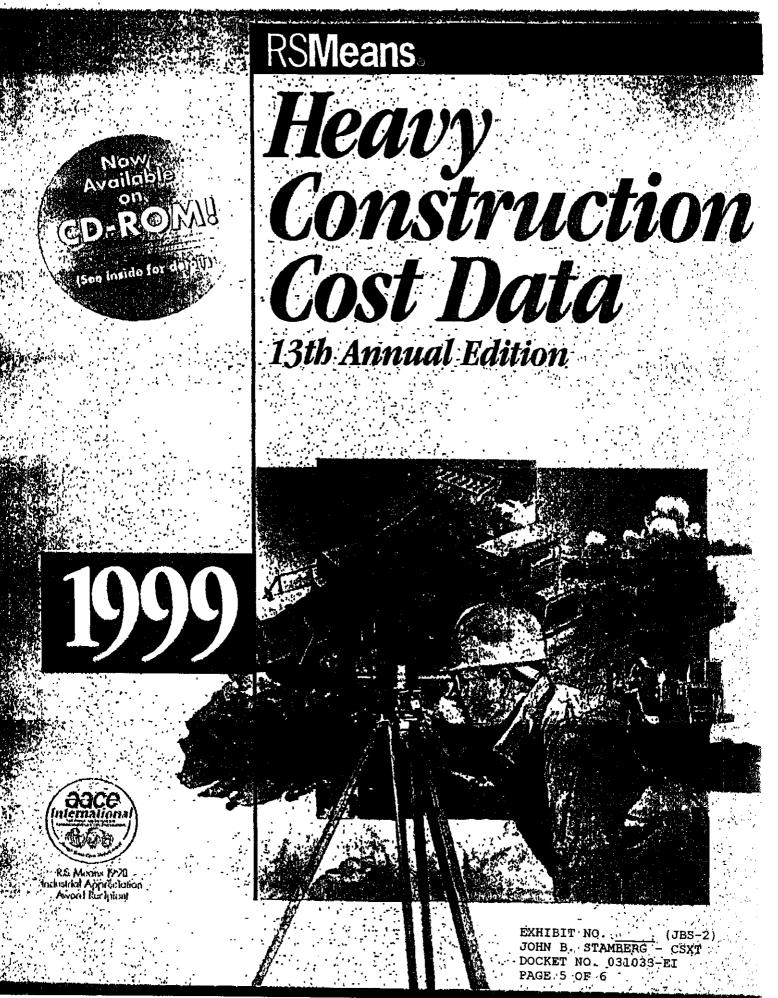
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EXHIBIT NO. (JBS-2) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 4 OF 6

EXHIBIT NO.

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FAX NO. 7032769541

TOTAL i

119.6 109.4 109.5 117.7

110.3 110.4 105.6 108.5

> 93,6 85,3 90,1 91,0 85,2 89,6 90,8 91,3 88,2 88,2 88,2 88,2 86,5 86,5 86,5 86,0

90.B

104.0 104.3 103.9 102.9

102.9 103.7 104.2 103.5 104.4 103.2 105.0

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98.4 98.0 98.4

84.1 87.7 79.6 73.5 84.4 82.9 86.1 86.3 86.6 56.9

835 84.2 85.1 83.5 83.5 81.8 82.9

88.4 67.9 74.9 80.3 66.9 79.8 82.2 82.3 75.6 77.1 80.1 79.2

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Location Factors

Costs shown in *Means cust data publications* are based on National Averages for materials and installation. To adjust these costs to a specific location, simply multiply the base cost by the factor and divide by 100 for that city. The data is arranged alphabetically by state and postal zip code numbers. For a city not listed, use the factor for a nearby city with similar economic characteristics.

gtate/21P	CITY	MAT.	INST.	TOTAL.	STATE/ZIP	CITY	MAT.	
BAMA	1				CALIFORNIA			
) 362	Gerneghan	96.5	77.0 62.2	87.1 79.8 82.2 82.2 79.6 74.8 78.7 79.2 83.4 78.5 78.5 78.5 78.6	(CONTD)			
4 5	luscaloosa	96.2 97.5	62.2	79.8	951	San Juse Stockion	110.1 105.9	
n G	Jauxa Decolu	96.3	53.3 69.4	/0.2 92 B	952 953	Modesio	105.9	
V 368	Huntavile	961	53.3 68.4 68.2 60.8 59.3 61.9 59.5 68.9 59.5 68.9 59.5	82.7	954 955 959	Saula Rosa	1 1072	
57 368 50	Gadisden	97.0 97.1 95.1	66.2	82.2	955	Fureka	108.6 107.3	
60.2hJ	Montgordery	97.1	60.8	79.6	959	Marysville	107.3	
62 53	Anniston	951	53.1	74.8	960 961	Redding	108.4 108.6	
53 54	Dollynt	96.6 95.9 97 0 96 2	59.5	78.7	901	Sucanvae	108.6	
59 55 366	Cvergruen Mobile	93.9	690	/9.2 B3.4	CULORADO		1	
67	Scima	962	59.5	785	800-802	Denver	101.9	
68	Phonic City	96.9 96.3	60.1	79.2	EOS .	Boukier	101.9 100.0	
i9	Betler	96.3	59.5	78.6	804 805 806	Golden	102.4 103.2	
				! !	805	Fort Colims	103.2	
. Aska 95.996	Another	1333	1	1 100 7	805	Greeky	100.2	
)/)/	Anchorage Faultarks	133 1 129.3	117.7 120.7	125.7	807 808 809	Fort Morgan Colorado Springs	1 100.7	
98	Lineau	1312	1180	125,7 125,1 124,8 129,7	810	Pueblo	100.7 100.7 102.6	
99	Ketchikan	140.6	118.0	129.7	811	Alamosa	104.9	
					810 811 812	Salida	104.8	
8120NA 50,853					813 814 815	Ourungo	105.6 103.9	
50,853	Phoendx	100.6	79.0	90.2	814	Montrose	103.9	
52 54	Mesu/ fempe Globe	100.6	72.0	63.0	816	Grand Junction Glenwood Springs	106.9 105.0	
56857	Rucson '	101.4	79.0 69.5 73.9 77.6 74.0 78.2 73.6	90.2 85.6 88.1 88.9 88.2 91.0	0.0	CURIMON SPANES	100.0	l
50 ' -	Show Low	99,4 101.5	74.0	88.2	CONNECTICUT			
60	Hagstalf	102.8 100,3	78.2	91.0	060	New Britain	103.0 103.3 103.8	
63	Prescolt	100,3	73.6	87.4 87.2	061	I let ford	103.3	ł
64	Knemon	99,1	74.4 74.2	87.2	062 063 064 065	Willimantic	103.8	ļ
65	Charabers	99.1	/4.2	87.1	063	New London	100.2 102.9	
RKANSAS			1 · · ·		065	Meriden New Haven	102.5	
16	Pune Bluff	95.4	62.0	20.3	066	Bridgeport	103.2	
16 17 18	Gameen	95.4 93.8	62.0 47.5	71.5	066 067 068 069	Waterbury	104.4 103.7	•
18	Texarkana	94.7	53.4	74.B	068	Norwalk	103.7	1
19	Hot Springs	93.0	53.4 46.9 62.3 64.8	79.3 71.5 74.8 70.7 79.7 80.5 80.5 77.1 77.8 67.5 76.1 79.0	069	Stamford	103.7 103.9	
20 72.2 2.1	Lillie Rock	95.9 95.2	62.3	79.7	1			j
2.J *	West Momphis	95.2	64.8	80.5	D.C.	Safe, ht and an	0.00	
24 25 26 27	Jonestoro Balesvilo	95 2 93.9	64.8	80.5	200-205	Washington	99.6	
26	Harison	93.9	27.L 601	//.L	DELAWARE			1
21	Fayetievilo	92.4	1 408	67.5	197	Newark	99.5	
28	Jarssehville	94.1	56.9	76.1	197 198 199	Winsington	98.8	ŀ
20	Fort Smith	95.3 92.4 94.1 96.1	64.8 59.1 59.1 40.8 56.9 60.7	79.0	199	Dover	98 8 99 5	Ł
a leastle			4				1	
ALIFORNIA 100 902	Los Angeles	105.0	11000	1	FLORIDA 320,322	Jacksonville	1	
63 MB	Trakwood	105.0 101.2 103.0	116.5 114.3 114.3	110.0	321	Daylona Beach	98.6 98.7	1
06409		101.2	1143	107.5	323	Tulahassag	99.1	
10912	Loug Beach Pasadena	100.6 104.5 103.2	114.4	110.6 107.5 108.5 107.2 109.2 108.6 107.1	323 324 325	Pananta City	99.6	1
10912 13916 17918	Van Nuys	104,5	114.1	109.2	325	Pensacola	99,6 99,2 100.0	
17918 .	Alixinora	103.2	114.4	108.6	326	Gamesville	100.0	Į.
019.021 022	San Diego Data Santour	104.9 102.5	114.4 114.1 114.4 109.5 112.0	1 107.1	327-328,347 329	Oriando	1 100.4	1
622 923 924	Pakn Springs San Bernardino	102.5	1112.0	107.1	330-332,340	Melbourne Miana	1006	1
25 724	Riverside	104.6	112.8	109.7	122	Fort Lauderdale	97.9	ł
026 927	Santa Ana	102,3	112.3	107.2	1334.349	West Raim Hearli	96.8	1
28	Anaberts	104.9	115.1	109.8	A 335 3 36,346	Tampa	9.9	ŦŰ
130	Oxnard	105.4	113.8	109.4	338 338 339	St. Petersburg		1-
1.11 132 933	Santu Barbara Bairersheid	104.6	112.9	108.6	330	Lakeland For Labora	98.5	1
132 933 014	Sha Lurs Obisno	104.3	107.0 111.5		342	Fort Myers Sarasota	98.2 100.0	1
35	Mujave	102 8	1089	105.6 108.8 105.8			1 100.0	L
136 938	Fresho	105.3	108 9 112.3	108.7	GEORGIA	1	1	E
539	Sulman	107.3	116.7	. 111.8	300 303,399	Atkinta	96.9	1
40 941	San Francisco	111.0	1382	124.2	304	Stresboro	96.8	
42,9569(13	Satramento	106.9	114.5	110.5	305	Conesvie	96.0	ł
143 144	Paki Alto San Maleo	1050	127.8	116.0	306 307	Allicens	251	1
145 145	Vallejo	108 0	127,1 127.0	117.2	308-309	Dolton Augusta	968 957	1
46	. Oakland	105.5	1265	117.9	310312	Macon	95.7	E
147	Derkeley	109.5	127.9	1 118.4	313314	Savaonah	97.8	
94x	Reumono	109.3	127.9 125.3	118.4	315	Waycross	97.7	
249	San Rulact	111.2	125.7	118.2	316	Valdosta	97.3	
950 1	Santa Cruz	110.8	118.4	114.5	317	Albany	97.4	t
	b				318-319	Columbus	97,5	1
L.						····		
						EXHIBIT NO.	(J
								C
32						DOCKET NO.	U31U33-E	1
						PAGE 6 OF 6		

PAGE 1/2

FAX

To: John Stamberg

Voice Phone Number:

From: Schul Sunt

Company: Colic States Systems, NC.

Fax Number: 8328 207

Voice Number;

MESSAGE

John,

How is the basiset based on the information you provided. I are hying to anticipate steel prices for the steel term. Late know in touch as the project parameters embed. We cannot figure my fortings for the standy until focation and cell testing is completed.

Thank You,

Nicked Sawit

Date: 32404

1 of 2 Pages:

EXHIBIT NO. (JBS-3) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 10

Cubic Storage & Office Systems, Inc.

March 22, 2004

Energy Ventures

Project: Tampa – CSX coal distribution conveyor.

Attention: Mr. John Stamberg

We would like to submit BUDGET system pricing for the Coal transport conveyor as discussed for your Project.

P-1-P-4 - 525' long Truss frame, trough belt conveyor. 2100 feet total length x 54" wide belt with Supports on 30' centers. Throughput of 2500 tons @ 740 FPM Horizontal design to be placed on concrete footings Each section is powered by a 75HP- 3 phase motor. Galvanized sheet metal covers over the belt open bottom Other specifications and design criteria will follow once the full specification is provided.

Budget price delivered and installed less sales tax.... \$ 1,300,000.00

Terms: To be specified
Warranty: On mechanical components is 1 year. The warranty does not include labor costs.
Delivery: 8-12 weeks A.R.O.
F.O.B: Delivered
Installation: Included
Sales tax: Not included

All materials, labor and delivery charges are subject sales tax, not included in the above price. This is a budget proposal is not valid as an order. Due to the volatility in the steel market prices are subject to change daily.

Thank You,

Richard Samit

4917 W. Nassau St. Tampa, FL. 33607 - PH: (813) 289-7795 FAX: (813) 287-2807

EXHIBIT NO. (JBS-3) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 2 OF 10

[2] 015

approach #1 @ 3806 LF adjust Cubre Storage and Office Supply, In \$ 300,000 molelles , 3800 = \$2,352,380 2100 LF Hooded 30' on Culios 10 port deep 1 3800 ×2 ±130 30' span ×2 ±130 casson 24+1 dea 029/VLF @ 3.14 p2 Carso 130 ausons × 1011 + 24/VLF 37,700 250 Pick up Truch 4405 2 Soul as about 2250#/42 G" @ 2.4575816 of OK with \$50,000 1,2"1 pick up 3-14 ×2250+ = Over 7000# Curson Sleel (Rebar) \$ 7560 130 × 200 "/consum x 530 + 51,50 2000 EXHIBIT NO. (JBS-3) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 3 OF 10

lexellavery 3**80**,000 100/LF hapts \$780 130 kon pressure sodum 135 wells 101,400 30' on supports . Aspe for the protection . Suplim 226,100 59-50 × 3800 . . . inte Charle Value Ly x 880 3520 Values Jule 20×1150 23,000 or Heads \$784,020 Sio Total Conveyor \$ 2,352,380 \$3,136,400 Esculation 1,061

Engr / Induced's 1,164 \$3,873,467

01620

Ø016

(JBS-3) EXHIBIT NO. JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 4 OF 10

Steel Supports for Short Enveror

1265,000 for Educated 3300 Convey

= \$00,3072F

10 (\$1020 + 80,30) × 500 = 550 150 \$100,30

EXHIBIT NO. (JBS-3) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 5 OF 10

12 017

124	Pipe & Fiftings 550 Plastic Pipe			DAUY	LABOR-			1999 BAI	E COSTR		TÓTAL
	Jou i Masne Pape		CREW		HOURS		MAT.	LABOR	EQUIP.	TOTAL	INCL 08
7990	Z* -		61	26	.615	Ea.	4.34	18.05		22.39	3
7400	2-1/2	-		24	.667		6.70	19.55		26.25	. 3
7410	3"			18	\$89		7.40	26		33.40	4
7420 7430		~		15	1.067		9.35	31.50		40.85	51
7440	6*		+	10	1.600		14.70	47		61.70	B
7440	8"		Q2	11	2.182		24	66.50		99.50	12
7560	Union, schedule 40, socket joints, 1/2"		1 Plum	19	.421		1.71	13.75		15.46	2:
7570	3/4"			18	.444		2.24	14.50		16.74	2
7560	1-1/4"			15 14	.533 .571		2.56	17.40		19.96	25
7590	1-1/2		-	13	.615		5.10 5.75	18.65 20		23.75	3:
7600	2"		♥ 01	20	.800		3.75 7.80	23.50		25.75	3
		_	19		.000	.	00.1	0662		31.30	. 4
	700 Steel Pipe			l I							
0010 PIP		R151 -050		<u> </u>	1						<u> </u>
	All pipe sizes are to Spec. A-53 unless noted otherwise	-050									ł
	Schedule 40, threaded, with couplings, and clevis type							•			
0060	hangers sized for covering, 10' O.C.				ļ						
0540	Black, 1/4" diemeter.		1 Plum		.121	LF.	1.20	3.95		5.15	
0550 0560	3/8" diameter			65	.123		1.35	4.01		5.36	
0570	1/2" diameter 3/4" diameter			63	.127		1.15	4.14		5.29	
0580	1" diameter			61 53	_131 _151		1.29	4.28		5.57	
0590	1-1/4" diameter	1		- 33 - 189	.180		1.94	4.92 5.30		6.56 7.28	
0600	1-1/2" diameter	770	Ť	80	.200	╏╴┤╴╺	2.25	5.85		8.11	
0610	2" diameter	***		64	.250		3.05	7.35		10.41	14
0620	2-1/2" diameter	[[+	50	.320		4.81	9.40		14.21	19
0630	3" diameter			43	.372		6.05	10.90		16.95	2
0640	3-1/2* diameter			40	.400		7.90	11.75		19.65	2
0650	4" diameter			36	.444		8.75	13.05		21.80	2
0660	5" diameter		Ŧ	26	.615		19,50	18.05		37.55	4
0670	6" diameter	·	02	31	.774		22	23.50		45.50	5
0660	8" diameter		1	27	.889		31	27		58	7
0690	10° Gameler	[]	<u> </u>	23	1.043		45	32	•	77	9
0700 0809	12" diameter A106, gr. A/B, seamiess w/cpigs. & hangers		*	18	1.333	+	62	40,50		102.50	13
0811	1/4" diameter		1 Plum	66	.121	LF.	2.51	3.95			
0812	3/8" diameter	- 1	1 - 00	65	.121	1	2.31	3.90 4.01		6.46	
0813	1/2° diameter			63	127	╉┼─	2.3/	4.14		<u> </u>	
0814	3/4" diameter			61	.131		2.56	4.28		6.84	
0815	1ª diameter		+	53	.151	╏╾┼─	3.05	4.92	· · · ·	7.97	1
0816	1-1/4" diameter		Q1	89	.180		3.35	5,30		8.65	n
0817	1-1/2" diameter			80	.200		3.52	.5.85		9.37	1
0819	A53, 2" diameter			- 64	.250		3.79	7.35		11,14	1
0821	2-1/2" diameter	T .	-	50	_320		6.50	9.40		15.90	2
0822	3" diameter			43	.372		8.20	10.90		19.10	2
0823	4" diameter		+	36	.446	•	12.70	13.05	1	25.75	3
1220	To delete coupling & hanger, subtract			ļ	<u> </u>						
1230 1240	1/4" diam. to 3/4" diam.				1	1	31%	56%			
1250	1" diam. to 1-1/2" diam. 2" diam. to 4" diam.			┨───			23%	51%	·		
1250	5" diam. to 12" tham.		·				23% 21%	41% 45%			
1280	All pipe sizes are to Spec. A53 unless noted otherwise				+	1	218			 	
1281	Schedule 40, threaded, with couplings and clevis type				1	1				· /	1
1282	hangers sized for covering, 10' O. C.			┢━━━━	1	1	<u> </u>			 	
1290	Galvanized, 1/4" diameter	Ţ	1 Pium	66	.121	L.F.	1.46	3.95		5.41	
<u> </u>		1		- · · ·					b u		
	•							EXHI	BIT NO.	•	(JBS

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	023	B Tunneling, Piles & Cais	son	5								Ø. (_
	_				ļ									
	02	3 600 Driven Piles					LABOR- HOURS	UNT		1995 BAR			TOTAL.	ſ
2	2900	25,000 L.F. pile job, add		B I		8,500	100KS .008	VILT.	MAT	_LADOR 21	EQUIP.	TOTAL .	INCL OLP	Ļ
	2900	Mobilization by water for barge driving rig, add	R023 -820	1	~	مسمه	~~~	" 		21	.17	.38 1001	.53	6
	02	3 700 Bored/Augered Piles							<u></u>			100%		ł
ļ		RESSURE INJECTED FOOTINGS or Displacement Caissons		 							<u> </u>			
	0100	incl. mobilization and demobilization, up to 50 miles	R023	Į						l				ľ
	0200	Uncased shafts, 30 to 80 tons cap., 17" diam., 10' depth		F	4	88	.727	V.L.F.	12.20	19.85	8.90	40,95		ł
1	0300	25' depth				165	.388		8.70	10.60	4.75	24,05	32.50	
	0400	80-150 ton capacity, 22" diameter, 10' depth				80	.800		15.25	22	9.80	47.05	63.50	
	0500	20' depth		1		130	.492		12.20	13.45	6.05	31.70	42.50	1
	0700	Cased shafts, 10 to 30 ton capacity, 10-5/8" diam., 20' depth		П		175	.366		B.7 0	9.95	4.48	23.13	31	1
	0800	30' depth	_ 。			240	.267		8.15	7.25	3.26	18.66	24.50	1
	0850	30 to 60 ion capacity, 12" diameter, 20' depth				160	<i>A</i> 00		12.20	10.90	4.90	28	37	1
	0900	40' depth	_ 41			230	.27B		9.40	7.60	3.41	20,41	26.50	
	1000	80 to 100 ton capacity, 16" diameter, 20' depth	_ il [160	.400		17.45	10.90	4.90	33.25	42.50	1
	1100	40' depth	_씽			230	.278	·	16.25	7.60	3.41	27.26	34	ł
	1200	110 to 140 ton capacity, 17-5/8" diameter, 20' depth	- [1		160	.400		18.75	10.90	4,90	34.55	44	1
j	1300 1400	40' deptin		┨─┤	Ц	230	.278		17.45	7.60	3.41	28.46	35.50	1
	1500	140 to 175 ton capacity, 19' diameter, 20' depth	1			130	.492		20.50	13.45	6.05	40	51.50	I
-	1700	40' depth Over 30' long, LF, cost tends to be lower				210	.305		18.75		3.73	30,78	38.50	
1	1900	Maximum depth is about 90'		1.	1									Į
•					-									╇
		3 800 Caissons												ł
l	0010 C/ 0020	VSSONS Incl. excav., concrete, 50 lbs. reinf. per C.Y., not incl. mobilization, boulder removal, disposal	R933 1993											T
	0100	Open style, machine drilled, to 50' deep, in stable ground, no		┢──			_		·					1
	0110	casings or ground water, 18" diam., 0.065 C.Y.A.F.		84	n	200	.240	V.L.F.	4.82	5.65	6,90	19.37	24	ł.
	0200	24" diameter, 0.116 C.Y./L.F.		Hï	-	190	.253		8.65	5,95	9.35	23.95	²⁴ (29)	ł
	0300	30° diameter, 0.182 C.Y.A.F.]			150	.320		13.50	7.55	11.85	32.90	39.50	
	0400	36" diameter, 0.262 C.Y.A.F.	-	H		125	.384		19.45	9.05	14.20	42.70	51	
	0500	48" diameter, 0.465 C.Y./L.F.				100	.480		34.50	11.30	17.75	63.55	75	
	0600	60" diameter, 0.727 C.Y./LF.				90	.533		54	12.55	19.75	86.30	101	
	0700	72" diameter, 1.05 C.Y.A.F.				80	.600		78	14.10	22	114.10	133	l
	0800	84" diameter, 1.43 C.Y.A.F.	· · ·	П		75	.640		106	15.05	23.50	144.55	167	
	1000	For bell excavation and concrete, add												l
	1020	4' bell diameter, 24" shaft, 0.444 C.Y.		8	43	20	2.400	Ea	27	56.50	89	172.50	216	1
	1040	6' bell diameter, 30" shaft, 1.57 C.Y.				5.70	8.421		96	198	310	604	760	ļ
	1060	8' bell diameter, 36" shaft, 3.72 C.Y.				2.40	20		. 227	470	740	1,437	1,800	1
					ı 1	2	24		273	5 65	890	1,728	2,150	
	1060	9' bet diameter, 48" shaft, 4.48 C.Y.		\square				- 1	320	665	1,050	2,035	2,525	ł
	1100	10' bell diameter, 60° shaft, 5.24 C.Y.		$\left\{ \right\}$		1.70	28.235				1770	3,435	4,275	I
	1100 1120	10' bell diameter, 60' shaft, 5.24 C.Y. 12' bell diametar, 72' shaft, 8.74 C.Y.				1.70 1	48		535	1,125	1,775		···	1
	1100 1120 1140	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y.								1,125 1,625	2,525	4,980	6,225	
	1100 1120 1140 1200	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled				1.70 1 .70	48 68.571	•	535 630	1,625	2,525	4,980		ļ
	1100 1120 1140 1200 1300	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F.		B	48	1.70 1 .70 160	48 68.571 .350	VLF.	535 830 4.82	1,625 8.40	2 ,525 12.35	4,98 0 25.57	32	
	1100 1120 1140 1200 1300 1400	10' bell diameter, 60" shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84" shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18" diameter, 0.065 C.Y./L.F. 24" diameter, 0.116 C.Y./L.F.		B	48	1.70 1 .70 160 125	48 68.571 .350 .448	•	535 830 4.62 8.65	1,625 8.40 10.80	2,525 12.35 15.80	4,98 0 25.57 35.25	32 43_50	
-	1100 1120 1140 1200 1300 1400 1500	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diametar, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F. 24'' diameter, 0.116 C.Y./L.F. 30' diameter, 0.182 C.Y./L.F.		B	48	1.70 1 .70 160 125 85	48 68.571 .350 .448 .659	•	535 830 4.62 8.65 13.50	1,625 8.40 10.80 15.85	2,525 12.35 15.80 23.50	4,98 0 25.57 35.25 52.85	32 43_50 65	1
	1100 1120 1140 1200 1300 1400 1500 1600	10' bell diameter, 60' shaft, 5.24 C.Y. 12' bell diameter, 72' shaft, 8.74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F. 24'' diameter, 0.116 C.Y./L.F. 30' diameter, 0.182 C.Y./L.F. 36'' diameter, 0.262 C.Y./L.F.				1.70 1 .70 160 125 85 60	48 68.571 .350 .448 .659 .933	•	535 830 4.62 8.65 13.50 19.45	1,625 8.40 10.80 15.85 22.50	2,525 12.35 15.80 23.50 33	4,98 0 25.57 35.25 52.85 74.95	32 43.50 65 92.50	1
	1100 1120 1140 1200 1300 1400 1500	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18'' diameter, 0.065 C.Y./L.F. 24'' diameter, 0.116 C.Y./L.F. 30'' diameter, 0.182 C.Y./L.F. 36'' diameter, 0.262 C.Y./L.F. 48'' diameter, 0.465 C.Y./L.F.		8		1.70 1 .70 160 125 85 60 55	48 68.571 .350 .448 .659 .933 1.600	•	535 830 4.82 8.65 13.50 19.45 34.50	1,625 8,40 10,80 15,85 22,50 40	2,525 12.35 15.80 23.50 33 46	4,98 0 25.57 35.25 52.85 74.95 120.50	32 43.50 65 92.50 152	1
-	1100 1120 1140 1200 1300 1400 1500 1600 1700	10' bell diameter, 60' shaft, 5.24 C.Y. 12' bell diameter, 72' shaft, 8.74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18'' diameter, 0.065 C.Y./L.F. 24'' diameter, 0.116 C.Y./L.F. 30'' diameter, 0.182 C.Y./L.F. 36'' diameter, 0.262 C.Y./L.F. 48'' diameter, 0.265 C.Y./L.F. 60'' diameter, 0.727 C.Y./L.F.				1.70 1 .70 160 125 85 60 55 35	48 665.571 .350 .448 .659 .933 1.600 2.514	•	535 830 4.82 8.65 13.50 19.45 34.50 54	1,625 8,40 10,80 15,85 22,50 40 63	2,525 12.35 15.80 23.50 33 46 72	4,980 25.57 35.25 52.85 74.95 120.50 189	32 43_50 65 92,50 152 239	1
	1100 1120 1140 1200 1300 1400 1500 1600 1700 1800	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F. 24' diameter, 0.116 C.Y./L.F. 30' diameter, 0.182 C.Y./L.F. 36' diameter, 0.262 C.Y./L.F. 48' diameter, 0.265 C.Y./L.F. 60' diameter, 0.727 C.Y./L.F. 72' diameter, 1.05 C.Y./L.F.				1.70 1 .70 150 125 85 60 55 35 30	48 68.571 .350 .448 .659 .933 1.600 2.514 2.933	•	535 830 4.82 8.65 13.50 19.45 34.50 54 78	1,625 8,40 10,80 15,85 22,50 40 63 73,50	2,525 12.35 15.80 23.50 33 46 72 84	4,980 25.57 35.25 52.85 74.95 120.50 189 235.50	32 43_50 65 92,50 152 239 295	1
	1100 1120 1140 1200 1300 1400 1500 1600 1700 1800 1900	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F. 24' diameter, 0.116 C.Y./L.F. 30' diameter, 0.182 C.Y./L.F. 36' diameter, 0.262 C.Y./L.F. 48' diameter, 0.265 C.Y./L.F. 60' diameter, 0.727 C.Y./L.F. 72'' diameter, 1.05 C.Y./L.F. 84'' diameter, 1.43 C.Y./L.F.				1.70 1 .70 160 125 85 60 55 35	48 665.571 .350 .448 .659 .933 1.600 2.514	•	535 830 4.82 8.65 13.50 19.45 34.50 54	1,625 8,40 10,80 15,85 22,50 40 63	2,525 12.35 15.80 23.50 33 46 72	4,980 25.57 35.25 52.85 74.95 120.50 189	32 43_50 65 92,50 152 239	1
	1100 1120 1140 1200 1300 1400 1500 1600 1700 1800 1900 2000	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F. 24'' diameter, 0.116 C.Y./L.F. 30' diameter, 0.182 C.Y./L.F. 30' diameter, 0.262 C.Y./L.F. 36'' diameter, 0.262 C.Y./L.F. 60'' diameter, 0.727 C.Y./L.F. 72'' diameter, 1.05 C.Y./L.F. 84'' diameter, 1.43 C.Y./L.F. For bell excavation and concrete, add			49	1.70 1 .70 160 125 85 60 55 35 30 25	48 68.571 .350 .448 .659 .933 1.600 2.514 2.933 3.520	VLF.	535 830 4.82 8.65 13.50 19.45 34.50 54 78	1,625 8,40 10,80 15,85 22,50 40 63 73,50 88,50	2,525 12.35 15.80 23.50 33 46 72 84 101	4,980 25.57 35.25 52.85 74.95 120.50 189 235.50 295.50	32 43.50 65 92.50 152 239 295 370	1
	1100 1120 1140 1200 1300 1400 1500 1600 1600 1800 1900 2000 2100	10' bell diameter, 60' shaft, 5,24 C.Y. 12' bell diameter, 72' shaft, 8,74 C.Y. 14' bell diameter, 84' shaft, 13.6 C.Y. Open style, machine drilled, to 50' deep, in wet ground, pulled casing and pumping, 18' diameter, 0.065 C.Y./L.F. 24' diameter, 0.116 C.Y./L.F. 30' diameter, 0.182 C.Y./L.F. 36' diameter, 0.262 C.Y./L.F. 48' diameter, 0.265 C.Y./L.F. 60' diameter, 0.727 C.Y./L.F. 72'' diameter, 1.05 C.Y./L.F. 84'' diameter, 1.43 C.Y./L.F.			49	1.70 1 .70 160 125 85 60 55 35 30 25 19.80	48 68.571 .350 .448 .659 .933 1.600 2.514 2.933	VLF.	535 830 4.62 8.65 13.50 19.45 34.50 54 78 105	1,625 8,40 10,80 15,85 22,50 40 63 73,50	2,525 12.35 15.80 23.50 33 46 72 84	4,980 25.57 35.25 52.85 74.95 120.50 189 235.50	32 43_50 65 92,50 152 239 295	1

EXHIBIT NO. (JBS-3) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI / PAGE 7 OF 10

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-				DATY	LABOR-	1		1999 Bi	RE COSTS		TÓTAL
<u> </u>	32 100 Reinforcing Steel		CREW	OUTPUT	HOURS	UNIT	MAE	LASOR	EQUIP.	TOTAL	NCL OLP
<u></u>	12' long	B022	I	1		C	230			230	253
500	3/4" diameter, for 1-1/2" I.D. pipe, 6" long	R032 -090			1		250			250	; 275
520	12" long		1		 		410		<u> </u>	410	455
700	Screw anchor for bolts, plain, 1/2" diameter						90			90	. 455 . 99
720	1" diameter	•					271		<u> </u>	271	
740	1-1/2° diameter		1				450			450	298
E00	Screw eye bolts, 1/2" x 5" long				┢╾╍─┤		1,100				495
820	1" x 9" long						4,000			1,100	· 1,200
840	1-1/2" x 14" long		┨	<u> </u>			4,000		ļ	4,000	4.425
900	Screw anchor boits, 1/2" x up to 7" long			i i						10,200	11,200
920	1" x up to 12" tong		·				420		· ·	420	. 460
000			l I				1,375			1,375	1,500
010			<u> </u>	ļ			280		ļ	280	310
		1					340		Į	340	- 375
030	7" high		1				390			390	· 430
100							440			440	: 485
120							465			465	510
200	Double lifting inserts, 1" diameter, 5" high		1				875		T	875	965
220	7" high						925			925	. 1,025
330	1-1/4" diamater, 5" high					•	950			950	1,050
500	Steeper clips for wood sleepers, 20 ga., gaiv., 2" wide					M	330		1	330	365
520	4" wide						410			410	450
600	Spacers, plastic for 1" bar clearance, average			1	1 1		48			48	53
620	For 2" bar clearance, average					+	58		· · · · · · · · · · · · · · · · · · ·	58	64
800	Subgrade chairs, 1/2" diameter, 3-1/2" high					ċ	270			270	297
850	12" fugh						770			770	645
900	3/4" diameter, 3-1/2" high			1			350			350	385
950	12" high		1				840			840	925
200	Subgrade stakes, 3/4" diameter, 12" long			1			277			277	305
250	24 ⁴ long						375		+	375	415
300	I" diameter, 12" long	·					420			420	465
350	24" long		1			-	630			630	590
500	Tie wire, 16 ga. annealed steel, under 500 tbs.					Cwt	80			80	88
520	2,000 to 4,000 lbs.						75		∤ ∙	75	82.50
550	Tie wire holder, plastic case					Ea.·	31			31	34
600	Aluminum case			┨────	<u> </u>		- 36			36	39.50
	•.		1								
010	COATED REINFORCENG Add to material		\mathbf{t}								
100	Epoxy coated, A775			1		Cwt	23.50		1	23.50	26
150	Galvanized, #3		1				31.50			31.50	34.50
200	-		1	1			31.50		1	31.50	34.50
250	9		1	+			31			31.50 31	34.50
300				1			n n		1	31	34 34
000	1		1		┼	-+	28.50		<u> </u>	28.50	34 31.50
500			1	1		11	34.50		1	34.50	31.50 38
	REINFORCING A615 Grade 40, incl. freight from mill		1	+		.	1 <u>3730</u>		+	37.70	
200		F052 -760				Топ	460			405	(m)
1500		• • • • • • • • • • • • • • • • • • •				evit			<u> </u>	480	(530
700						Ton	460			460	505
000	Reinforcing extras, add to base									400	505
020					E	Ton	82		l	82	<u>~</u>
050				+			02 36.50				90
200				1					1	36.50	40
200	50 to 150 tons	• •		<u> </u>	 		46.50	· · · · ·	 	46.50	51.50
.230 1300				1			36.50	l	1	36.50	40
350				┥	ļ		31.50		 	31.50	34.50
.350 1 700				1	1		22.50		1	22.50	24.50

For expanded coverage of these items see Means Concrete & Masonry Cost Data 1999

JOHN B. STAMBERG + CSXT DOCKET NO. 031033-EI 141 PAGE 8 OF 10

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KINKUS

	56 Lighting											
1	66 100 Lighting				LNBO				1999 BA	RE COSTS		TOTAL
2250	Low pressure sociam, 55 walt				HOUR				LABOR	EQUIP,	TUTAL	INCL OLD
2270		1	Elec.		2.96	E		485			579.50	67
2290			╞	2	4			535	1	L.	663	780
2340				.2	4			680	•	Γ	808	940
2360	100 watt			2.70	2.963		·	190		•	284.50	350
2380	150 wait			2.70	2.963			215	94.50		309.50	380
2400	400 wat	~	<u>*</u>	2.70	2.963			220	94.50		314.50	385
2600	1000 watt	2	Eloc	4,40	3.636			335	116		451	545
2610	Incandescent, 300 watt	<u> </u>		4	.4			500	128		628	740
2620	500 watt		Elec	4	2			85	64		149	189
2630	1000 watt		-	4	2			128	64		192	237
2640	1500 wat	21	Elec	6	2.667			138	85		223	279
2650	Roadway area luminaire, low pressure sodium, 1.35 watt			6	2.667		_	15()	85		236	293
2700	180 watt	11	Elec	2	4			535	128	:	663	780
2720	Mercury vapor, 400 watt			2	4			565	128		693	810
2730	1000 watt	21	Dec 1	4.40	1636	IT		340	116		456	550
2750	Metal halide, 400 watt		\square	4	4			425	128		553	660
2750	1000 watt	1		4.40	3.636			410	116		526	625
2780	High pressure sodium, 400 watt		Ц	_4	4			490	128		-618	730
2790	1000 wat		ŀ	4.40	3.636			465	116		581	685
2800	Light poles, anchor base	· · · ·		4	4	+		515	128		643	755
2820	not including concrete bases				· ·						11	
2840	Aluminam pole, 8' high							-				
2850	10' high	18	kc	4	2	Ea.		435	64		499	575
2860	10 mg) 12' high			4	2	Ľ.	_}	455	64		519	595
2870	•	4		3.80	2.105	T		475	67	1	542	625
2860	14' high			3.40	2.353		1	495	75		570	655
3000	20° bigh	- I 4		3	2.667			545	85		630	725
3200	30' high	R	3	2.90	6.897			595	218	47	860	1,025
3400	35' tigh			2.60	7.69Z].	100	243	52	1,395	1,650
3600	40' bigh	[_]	\square	2.30	8.696		1,	200 [275	59	1,534	1,800
3800	Bracket ams, 1 am			2	10		1,	375	315	68	1,758	2,050
4000	2 ams]][1]		8	1			75	32		107	130
4200	3 ams	-		8	1			150	32		162	213
4400	4 ams	- 11	\bot	5.30	1.509			225	48		273	320
4500	Steel pole, galvanized, 8' high	11		1	1.509			300	48		348	400
4510	10° high				2.105			410	67		477	550
4520					2.162			٩	69		499	580
4530	12' high				2,353	ł		165	75		540	620
4540	14' high			3.10	2.581			195	82.50		577.50	670
4550	16 high				2.759			525	88	•	613	710
4600	18' Nigh	•			2.963	T	9	555	94.50		649.50	750
4800	20° bigh	R-3	_		7.692] 7	730	243	52	1,025	1,225
5000	30' tigh				8.696			160	275	59	1,194	1,425
5200	35' high				9.091		9	40	287	61.50	1,288.50	1,525
5400	40' high Broalest area 1	Ŧ			11.765		1.1	.50	370	80	1,600	1,925
5600	Bracket arros, 1 arm	1 Ek	×	8	1		1 1	20	32	·	152	180
5800	2 ams		Γ	8	1	Τ		85	32		217	252
5000	3 arms 4 arms				1.509			00	48		248	292
5100		- ∓			1.509	Τ	2	80	48		328	380
200	Fiberglass pole, 1 or 2 fotures, 20' high 30' high	R-3		4	5			45	1 5 8	34	537	655
5300	35' high				5.556	Г	5	40	175	37.50	753.50	900
5400	40' high				6.250			75	197	42.50	914.50	1,100
5420		•			7.143		6.	25	226	48.50	1,099.50	1,300
430	Wood pole, 41/2" x 51/8", 8' high 10' high	1 Ele	<u> د</u>		1.333			20	42.50		262.50	305
440	12' high				1.333		2	50	42.50		292.50	340
	<u>د اهلا</u>)	11	16	5.70 🗍	L.404	- F -	i ar	20	45	· I	345	395

(JBS-3) EXHIBIT NO.

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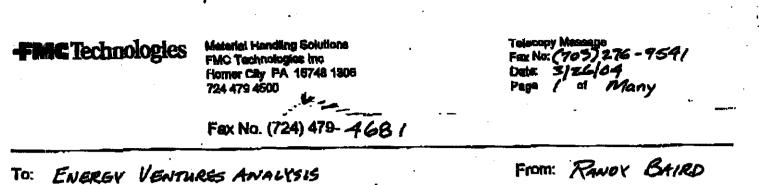
VINVOS

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15	1 Pipe & Fittings											
12	51 950 Valves				LABOR-				e costs		TOTAL	4
				_	HOURS		MAT	LABOR	EQUIP.	TOTAL	INCL OF	
3760	1-1/4" size	R151 -050	1 Plum	15	-533	En.	310	17.40		327.40	365	
1770	1-1/2" size	-050		13	.615		335	20		355	400	
8780	2 [≈] size	ŧ	+	-11	.727	+	505	23.50		528.50	590	
		·····										
	VALVES, IRON BODY	R151 -050		ł								٦
1020	Butterfly, wafer type, gear actuator, 200 lb.	-050									1	
1030	2° size		1 Plum	14	.571	Ea.	109	18.65		127.65	147	-
1040	2-1/2 size		Q1	9	1.778		112	52		164	202	
1050	- 3" size	e l		8	2		116	58.50		174.50	217	7
1060	4" size	┈╙╢	¥	5	3.200	•	145	94		239	300	
1070	5" size		Q2	5	4.800		175	146		321	415	-
1060	6" size		•	5	4.800	. 🔶	198	146		344	440	
1650	Gate, 125 b., N.R.S.											
2150	Flanged											
2200	2" size) Plum	5	1.600	Ea.	250	52		302	355	
2240	2-1/2" size	<u> </u>	01	5	3.200		256	94	<u> </u>	350	425	
2260	3" size			4.50	3.556		287	104		391	475	
2280 2300	4" size 6" size			3	5.333		410	157		567	690	
3550			QZ	3	8	*	700	243	· ·	943	(1,150)	>
3600	OS&Y, 125 lb., flanged 2" size	·	1.00	┝╼	1.000							_
3660			1 Plum	5	1.600	Ea.	179	52	1	231	275	
3680	3* size 4* size	·	Q1	4.50	3.556	┠┼╴	209	104		9 13	390	
3700	4 [.] size 6* size			3	5.333		222	157		379	480	
3500	For 250 lb, flanged, add		Q2	Э.	8	•	490	243		733	910	
4350	Giobe, OS&Y	ſ	I.				200%	10%			1	
5450	Swing check, 125 lb., threaded		I	<u> </u>	<u> </u>		4		ļ	<u> </u>		<u>. </u>
5500	2" size		1 Plum	l 11	.727	Ea	270	, , ,]	007 70		
5540	2.322 2.1/2" size		Q1	11	1.057		350	23.50 31,50		293.50		
5550	3" size		i i	13	1.231		375	31.50		381.50		
5560	4" size			10	1.600		600	47		<u>411</u> 647	- 470 730	
5950	Flanged			1	2.000	ľ				(04)	130	
6000	2' size		1 Pum	5	1.600	Ea.	125	52	<u> </u>	178	218	
6040	2-1/2" size		Q1	5	3.200		160	94	1	254	320	
ब्रज्ञ	3" size		t ì-	1	3.555		239	104		343	420	
හෙ	4° size			3	5.333		271	157		428	535	
a 70	6" size		02	3	B	╞╁	460	243	<u> </u>	703	A	
	· •	•				ľ						/
0010	VALVES, PLASTIC				1.				<u> </u>			_
1150	Ball, PVC, socket or threaded, single union					l I						
1230	1/2 size		1 Plum	26	.308	Ea.	19.75	. 10.05	1	29.60	36.	.50
12:40				25	.320		23.50	10.45		33.95		
1250	l' size			23	.348		28.50	11.35		39.85		
1260	1-1/4" size			21	.381		37.50	1		49.90	1	.50
1270	-			20	.400		47	13.05		60.05	72	_
1280	2° size		+	17	.471		67.50			82.85	98	
1290	2-1/2* size		Q1	26	.615	\square	183	18.05		201.05		
1300		******		24	.657		168	19.55		187.55		
1310		•	+	20	.800	IT	320	23.50		343.50	385	
1360				<u> </u>	I	1 +	100%	15%	<u> </u>		1	
31.50	Ball check, PVC, socket or threaded				1	1					1	-
32500			1 Plum		.308	Ea.	25	10.05	<u> </u>	35.05		
3220	3/8" size			26	.308	ΙT	25	10.05		35.05		SC
32,440				26	.308		25	10.05		35.05	1	
3250	•••••			25	.320	1 1	28	10.45		38.45	46.5	.50
3250	l' size IBIT NO(JB3-3)		₽¥	23	.348	∎ ↓	35	11.35		46.35	55.	Ş/

JOHN B. STAMBERG - CSXT 27 DOCKET NO. 031033-EI PAGE 10 OF 10 Converting for the section for critical payorting date - Reference Nos. Crows. & Civ Cost Indexes

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WTUUOD

Altr: JOHN STAMBERG

DEAR ML. STAMBERG:

Please find attached as per our discussion. Thanks for the opportunity & I look forward to further discussions on this project. Questions please call: (724) 479-4657

Smerely. RANDY BAIRD MHS SYSTEMS MANAGER.

EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 13

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P. 001

PMC TECHNOLOGIES PH

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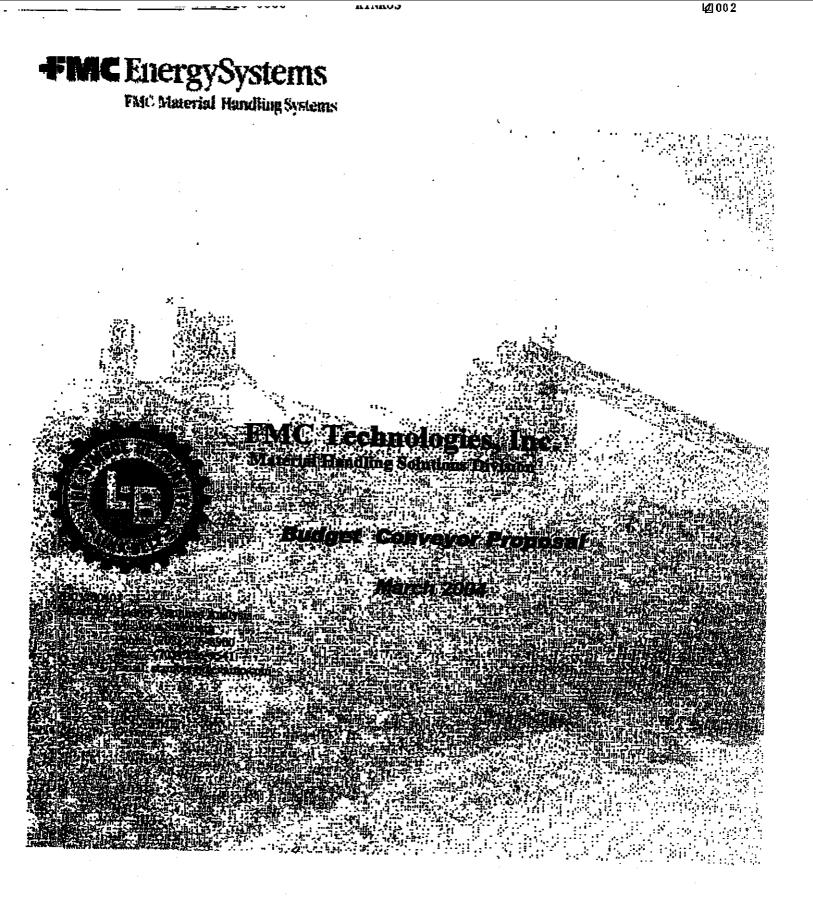


EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 2 OF 13

P. 002

TEL: 724 479 4681

BWC LECHNOFOGIEZ BH

WYB - 76. D4 (FRI) 14:44

FMC EnergySystems

FMC Material Handling Systems

BUDGETARY Quotation

Energy Ventures Analysis March 16, 2004

Executive Summary

Special Conditions and Notes

- Customer responsible for all appropriate permitting and licensing as required
- System designed for maximum 2600TPH (Main) & 1500TPH (Secondary) handling Clean Coal consisting of 50 # per cu. Ft. density.
- Customer to provide all electrical unless noted otherwise in following bid
- Customer responsible for all taxes
- Customer to provide 460/60 line voltage to System.
- Modifications to the original quotation by Customer, including scope of supply, component brand decisions, etc may impact quotation price shown
- No allowance has been made for environmental mitigation, abatement, permitting, licensing or any associated cost required for the successful execution of this project.
- FMC Technologies, Inc reserves the right to suspend the project or supply based upon untimely customer payments, customer and or weather delays or other force majeure events.

General Scope of Work

Design, engineer, supply, deliver, install Clean Coal Handling conveyor system consisting of two (2) Conveyors: Main & Secondary. This includes: Conveyor Truss frames, Head frames, tall frames, gravity Take-up unit. A small Transfer Tower structure for product transfer from C1 to C2 has been included. All items as listed below with furnished documentation for same, including relevant Data Sheets, maintenance documents and applicable drawings.

Phone, 662-869-7520

Fax. 888-580-8597

EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 3 OF 13 AL JNJ SF: FI (18d) FO.97- HYW

5- 002

Fage 2

1890 610 DTL: 131

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FMC EnergySystems

EMC Material Handling Systems

This budgetary quote is based solely on the limited information provided by Energy Venture Analysis, which is limited to:

- Clean Coal 50#/cuft
- Horizontal Conveyor, 18' height through-out entire length
- Walkway one side
- Covers fuil length
- Bent Spans 30'
- Lighting full length
- (2) drive-ways
- Gravity Take-ups

Additions to specifications or beyond scope of supply may impact budgetary pricing.

Supply Included:

ITEM #1 MAIN 2500TPH One (1) 3300' 54"W 18' high Truss Conveyor equipped with:

- Tail section to include a small skirt-board hopper loading section.
- Horizontal Truss with 16' Bents spaced per design requirements (30' maximum span).
- Dual 200HP drives (Dodge), FTI LinkBelt Pulleys & bearings, Dodge reducers.
- FTI DirtWhacker beit screppers (primary & secondary)
- Non-contact surfaces painted FP3 industrial single-coat enamel (Color TBD)
- Full 180 degree covers throughout entire length. Exception is one(1) 30' section of tubular to span road.
- · 32" Walkway single side, entire length.
- Lighting posts full length per design/code requirements.
- Goodyear beiting, 600 PIW 3 ply to perform task.
- Manual Belt take-up adjustment (Gravity Side Tower),
- FTI C-series Idlers. Rolls 5' on 10' flat return.
- ABB Drive Starter Package.
- Hardware peckage.

EXCLUSIONS: Foundation design & supply. OPTIONED BELOW Any Head discharge boxes, etc.

ITEM #2 SECONDARY 1500TPH One(1) 2100' 42"W 18' high Truss Conveyor equipped with:

Tail section to include a small skirt-board hopper loading section.

Phone. 662-869-7520

Fax. 888-580-8597

EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 4 OF 13 HOAL OWN SP:\$1 (121)\$0.97- 24W

Page 3

P, 004

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FMC TECHNOLOGIES PH

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FMC EnergySystems

FMC Material Handling Systems

- Horizontal Truss with 18' Bents spaced per design requirements (30' maximum span).
- Dual 125HP drives (Dodge), FTI LinkBelt Pulleys & bearings, Dodge reducers.
- FTI DirtWhacker belt scrappers (primary & secondary)
- Non-contact surfaces painted FP3 Industrial single-coat enamel (Color TBD)
- Full 180 degree covers throughout entire length. Exception is one(1) 30' section of tubular to apan road.
- 32" Walkway single side, entire length,
- Lighting posts full length per design/code requirements.
- Goodyear belting, 375 PIW 3 ply to perform task.
- Manual Belt take-up adjustment (Gravity Side Tower).
- FTI C-series idiers. Rolls 5' on 10' flat return.
- ABB Drive Starter Package
- Hardware package.

EXCLUSIONS: Foundation design & supply. OPTIONED BELOW Any Head discharge boxes, etc.

ITEM #3 One (1) Lot of Engineering

- General Assembly design and Bill of Materials sufficient for Conveyor fabrication & installation.
- Includes Electrical design

Design Specifications and Criteria

Design & Material Data

Material Size of Material Bulk density

Clean Coal Assume: 0-3" 50 lbs /cu, ft.

Operating Conditions

Continuous; 24/7; outside, typically dry environment, extreme service; Power supply by customer to be 460V/3 phase.

Supplier drawings

FMC Technologies. Inc. shall submit to Energy Venture Analysis AutoCAD drawings and other relevant design/specification information for approval within an acceptable timeframe from order entry date. Requested changes made prior to final approval will be

Phone. 662-869-7520

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Fax. 888-580-2597

EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 5 OF 13 Hd SEIDOTONHOEL OWA WYE - 79, 04 (EEI) 14:49

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FMC Material Handling Systems

discussed and if necessary the original quotation will be modified to reflect the change adders and/or deducts.

BUDGETARY Pricing Summary

NOTE: Pricing provided as Budgetary only. Exact pricing will require further scope development, specification review, and site analysis. Final pricing to occur prior to order acceptance.

Supply of Items # 1-3 (as defined in Scope of Supply) \$ 5,851,000.00 BUDGETARY RANGE : +15% to -20% Customer to confirm supply (\$4,680,800 - \$6,728,650)

Payment Terms:

Amt	Milestone	Timing
15%	Order Entry	(Immediate)
20%	General Arrangement drawings for approval	(Immediate)
25%	Major Component Procurement (Invoiced/	(
	Itemized Monthly with Receipt documentation)	Net 30
30%	At Equipment Shipment (or ready for shipment,	
	if Customer unable to receive)	
	(Invoiced / Itemized Monthly)	Net 30
10%	At substantial completion (ready for production;	
	(clean-up/punch-list items may still need	
	to be addressed)	Net 30

FOB: Tupelo.MS

Delivery: Based upon Project Schedule developed at Order Receipt.

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FMC Material Handling Systems

TERMS AND CONDITIONS

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1. Prices And Payment

- 1.1. Payments are to be made in U.S funds. Unless otherwise specified all invoices are due ner 30 days from date of Shipment PRICES INVOICED WILL BE THOSE IN EFFECT AT TIME OF SHIPMENT. All prices are 1.0.b. point of manufacture. Seller reserves the right in place a service charge on past due accounts at the highest fate permitted by law.
- 2. Warranty

Selice warrants that the goods delivered under this contract will be free from defect in material and workmanship for a period of 18 months from shipment or 12 months from installation, whichever is cartier. The sole remedy for breach of this warranty is the repair or replacement (at the option of Technologies) of the defective good, and Technologies will not be lishle under this warranty for labor to remove or reinstall the good, for transportation or freight on the good or any replacement good, for heavy lift operations, for down time or for any other costs. Goods which Technologies determines to have been subjected to abuse or other improper use will not be entitled to the benefits of any warranty by Technologies. THERE ARE NO OTHER WARRANTIES, STATUTORY, ATLAW, EXPRESS OR DAPLIED, INCLUDING THE DAPLIED WARRANITES OF MERCHANTABILITY AND FILNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE FACE OF THIS AGREEMENT.

- 2.1. Seller does not in any manner whatsoever warrant seals or packing materials in equipment handling special or converter fluids operating at unusual temperatures of pressures, improper lubrication, missiphilestion, lighting, suproper voltage supply, deterioration by chemical action, detrimental well conditions, and wear caused by the presence of abrasive materials, which do not constitute defects.
- 2.2. This wanancy shall not apply to any equipment which has been subjected to misure, neglect or accident, or has been altered or tampered with, or on which corrective work has been done without Seller's specific written, consent. Seller does not recommend and will not assume any responsibility for rebuilding, repairing, special plating, coating, welding, or heat treating done outside Solier's plant by or at the request of Buyer. Products not of Seller's manufacture, and included in Seller's proposal, and special plating, coatings or heat treatment applied to Seller's products are not warranted in any way by Seller but carry only the manufacturer's waitanty, if any.

3. Limitation Of Remedy And Liability

9.1. Soller's Hability, including that for breach of contract, negligence, strict liability in tort, or otherwise, for its products and Buyer's exclusive remedy is limited to (a) the repair or replacement (but not installation) of parts found defective by Seller, f.o.b. Seller's factory if returned to the factory for inspection, transportation charges paid, or (b) if in Seller's opinion repair or replacement will not remady a claimed product deficiency. or if a product of Seller's manufacture does not comply with the description or specification set forth on Seller's Onler Acknowledgment to represent of any amount paid on the purchase price, cancellation of the order and acceptance of the product f.o.b. point of manufacture. However, if the product has been in use for a period in excess of 30 days, Seller reserves the right to make a reasonable depreciation charge for such use.

CONSEQUENTIAL DAMAGES DISCLAIMER Neither party shall be liable to the other in contract or in tort, directly or under any indemnity, for loss profits or

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FMC Material Handling Systems

for any indirect, special, or consequential damages, stising out of or related to this contract, including but not limited to loss or delay of production, reservoir loss/damage, environmental pollution damage, however same may to caused.

4.1. FURTHERMORE, SELLER EXPRESSLY DISCLAIMS ANY OBLIGATION OR LIABILITY FOR LABOR PERFORMED IN CONNECTION WITH INSTALLATION OF REPAIRED OR REPLACED PARTS OR FOR ANY OTHER EXPENSE, INJURY, LOSS OR DAMAGE TO PERSONS (INCLUDING DHATH) OR TO PROPERTY OR THINGS OF WHATSOEVER KIND OR NATURE.

5. DELAYS, FORCE MAJRURE, DEFAULTS & REMEDIES

Seller has the right to suspend its performance or terminate the coultact for non-payment of invoices. Seller shall have a reasonable time period in which to cure or otherwise remedy problems or defects prior to the Buyers right to either take-over performance of the work or to terminate the contract.

5.1. Seller shall not be liable to Buyer for any loss or damage suffered by Buyer directly or indirectly, as a result of Seller's failure to deliver or delay in delivering the equipment or failure to perform, or delay in performing, any other term or condition hereof, where such failure or delay is caused by fire, flood, natural disaster, labor trouble (including without limitation strike, slowdown and lockout), war, riot, civil disorder, embargo, government regulations or restrictions of any and all kinds, expropriation of plant by federal or state authority, interruption of or delay in transportation, power failure, inability to obtain materials and supplies, accident, explosion, act of God or other causes of like or different character beyond Seller's control and the time for delivery specified herein shall be extended during the continuance of such conditions and for a reasonable time thereafter.

6. Risk Of Loss

6.1. The tisk of loss or destruction of, or damages to, the product shall be on Buyer after delivery of the product to Buyer or carrier, whichever first occura.

7. Taxes

7.1. Buyer shall pay the amount of any federal, state, county or municipalities, sales, use compensating, intangibles, gross income or like tax applicable to this transaction which is now in effect or may horeafter become effective, but not including taxes payable upon Seller's nat income

8. Returns

8.1. No material will be accepted for credit when recorned without written permission from Soller's home office. All material accepted for credit is subject to Seller's normal restocking charge. No material will be accepted for credit after one year from date of shipment,

9. Special Products

9.1. Products incorporating variations from estalog items are considered special and are not subject to ration or cancellation without charge.

10. Patented Process

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FMC Material Haudling Systems

10.1. The purchase of the product does not entitle Buyer to employ the same with any patented process owned by Sellers or others except where Buyer is expressly suthorized to use such process.

11. Patent Infringement

11.1. Except in the case of articles, materials and designs furnished or sponsored by Buyer, Seller at its own, expense, shall defend any suit brought against Buyer on the ground that use of the product for the intended purpose or purposes, as furnished by Seller infringes any United States patent in effect on the purphase date and shall pay the amount of any judgment that may be awarded against Buyer in any such suit provided and upon condition that Buyer shall have made all payments due under this Agreement and shall (a) promptly deliver to Seller all infringement notices and other papers received by or served upon Buyer, (h) permit Seller to take complote charge of the defense of such cuit and compromise the same, if decided advisable by Selice, and (c) assist in every reasonable way in the conduct of such defense. In the event that Buyer shall be enjoined by a court of competent jurisdiction from which no appeal can be taken, from selling or using the product for the intended purposes or purposes on the ground that such sale or use of the product infrinces any such United States patent, or it is established to Seller's sulstaction, upon due investigation, that sale or use of the product infringes any such United States patent, Seller at its option may either (a) process for Buyer a licence to sell and/or use the product, (b) modify the product so as to make it non-infringing without scriously impairing its performance, (c) replace the product with a product that is substantially equal but non-Infringing, or (d) accept the return of the product from Buyer, in which event Seller shall refund to Buyer the purchase price less depreciation at the rate of 15 percent per year (meanined from the date Seller shipped the product). The faregoing sets forth Seller's entire Hability to Buyer for patent infrinsement based on the possession, use or sale of the product by Buyer, it boing understood and agreed that the aforesaid obligations of Seiler do not extend to, and are not applicable in the case of any patent infringement claims directed to a method or a process. Buyer agrees to defend and indemnify Seller against any claims or liebilities for, or by reason of, any alleged petent initingement atising from the manufacture or sale of all or any part of the product which is manufactured in accordance with the specifications furnished by Buyer.

12. Transfer of Title

12. 1. Title to the products supplied hereunder, to any and all accessories hereto and substitutions therefor, shall remain in Soller as a purchase money security interest (including the right of repossession) until Buyer has completed payment of the purchase price, plus accrued interest, if any, and fully performed all of the terms and conditions hereof.

13. Indemnification

13.1. It is understood that Seller has relied upon data furnished by and on behalf of Buyer with respect to the safety aspects of the products supplied hereunder and/or representations by or on behalf of Buyer that such products will not be applied or used by Buyer or its customers in such a way as to defined materially from their safety in use, including, without limitation, is the manufacture of a product of which Seller's products will be a component and that it is Buyer's responsibility to assure that such products, when installed and put in use, will be in compliance with addry requirements fixed by applicable law and will be otherwise legally adequate to materially adequate to material against injuries to persons or property. BUYER HEREBY ACHEES TO INDEMNIFY, HOLD HARMLESS AND DEFEND SHLER, AND IT'S DIRECTORS, OFFICERS, EMPLOYEES AND AGENTS AGAINST ANY AND ALL LOSSES, COST, DAMAGES, CLAIMS, LIABILITIES OR EXPENSES, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES, ARISING OUT OF OR RESULTING FROM ANY INJURY TO ANY PERSON OR DAMAGE TO ANY PROPERTY CAUSED BY THE INADEQUACY FOR THE BUYER'S INTENDED USE OF THE SAFETY FEATURES, DEVICES OR CHARACTERISTICS OF THE PRODUCTS SPECIFIED HEREIN, OR IN THE INSTALLATION, USE OR OPERATION OF SUCH PRODUCTS, EXCEPT CLAIMS

Phone, 662-869-7520

Page 8

EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 9 OF 13 Fax. 888-580-8597

FMC TECHNOLOGIES PH

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FMC Material Handling Systems

SOLELY FOR REPAIR OR REPLACEMENT OF DEFECTIVE FARTS COVERED BY THE WARRANTY SET FORTH IN PARAGRAPH 2 HERBOF.

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15.2

Customer shall release, defend, hold harmless and indemnify Technologies and its subcontractors against personal injuty suits by amployees of customer, its affiliates and its other contractors arising out of the Work. Likewise, Technologies chall release, defend, hold harmless and indemnify customer, its affiliates and its other contractors against personal injury suits by employees of Technologies and in subcontractors arising out of the Work.

13.3. "The parties hereby agree that the indemnities each party provides under this common shall be supported by equal amounts of Hability insurance."

14. Written Acceptance

14.1. Any purchase order received by Seller shall be construed to be a written acceptance of this quotation and offer to sell. Buyer may purchase equipment offered in this quotation only on the Seller's terms and conditions included in this quotation. Buyer may phonese to issue a purchase order to identify equipment for purchase and for its own internal purposes. However, unless accepted in writing by an authorized employee of FMC, any terms and conditions contained in any purchase order, acceptance, acknowledgment, or other document Buyer minimums to FMC which are inconsistent with different from, or additional to the terms and conditions of this quotation will be null and void, and in her thereof the terms and conditions of this quotation will be null and void, and in her thereof the terms and conditions of this quotation will be null and void, and in her thereof the terms and conditions of this quotation.

15. Additional Charges

15.1. If substitute or additional equipment, or repair parts, are purchased by Buyer from Seller, the terms and conditions of the contract created upon acceptance of this offer to sell shall be applicable thereto, the same as if such substitute or additional equipment or repair parts had been originally purchased hereunder.

16. Termination By Seller

16.1. Seller reserves the right to terminate the contract created upon acceptance of this offer if governmental controls do not permit the Seller to perform this Agreement.

17. Repudiation By Buyer

17.1. Buyer may not terminate the contract created upon acceptance of this offer to sell without Seller's prior written consent. If Buyer shall attempt to terminate without Seller's consent or shall otherwise reputiate this contract, Buyer shall be liable to Seller for all of Seller's costs and other commitments incurred to date of reputiation, plus Seller's incidental damages, and the profit Seller would have made from full performance of this contract.

18. General

18.1.1. No modification hereof shall be binding upon Seller unless such modification is in writing signed by a duly authorized representative of Seller,

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EXHIBIT NO. (JBS-4) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 10 OF 13 Fax. 888-580-8597

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18.1.2. If any part hereof is contrary to, prohibited by, or deemed invalid under applicable laws or regulations, such provision shall be decared inapplicable and omitted to the extent contrary, prohibited or invalid, but the remainder shall not be less invalid and shall be given full force and effect., and

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18.1.3. The online understanding between the pantics hereto is set forth herein and any promises, representations, warranties or guarantees not herein contained shall have no force and effect unless in writing signed by Seller and Buyer.

19. POLLUTION

Sellier shall release, defend, indemnify and hold barmlass Buyer, its affiliates and its other contractors for pollution or contamination atising above the nurface of the land or water and which escapes or emanates directly from Technologies' equipment which equipment is wholly within Technologies' control. And Buyer shall release, defend, indemnify and hold harmless Seller for all other pollution not specifically assumed by Seiler.

20. LIMITATION OF LIABILITY

The total aggregate liability under any contract for all Selier exposures (e.g., pollution, warranty, indemnification, or liquidating damages) may not exceed the total contract value or \$25,000,000 dollars whichever is less.

21. DISPUTE RESOLUTION

In the event of any dispute, or difference arising out of, or pelating to this contract, or the breach thereof, the parties shall use their best endeavons to settle such dispute, or difference by consulting and negotiating with each other, in good faith, and undenstanding of their mutual interests, to reach a just and equitable resolution which is antisfactory to the parties. In the event the parties cannot resolve such dispute up to the level of each party's Division Manager or President within ninety (90) days after a party's initial notice of the dispute, the parties shall be free to litigate their differences in accordance with Mississippi law and shall submit to this forum.

22. CHOICE OF LAW & FORUM

In the svent of a contract dispute, Buyer and Seller agree to apply the Mississippi laws without regard to conflicts of laws rules, and higgste in the state or federal courts of the Seller.

23 SUCCESSORS AND ASSIGNS

This contract shall more to the benefit of and bind any successor in interest to a party to this contract. This contract may not be assigned by either party without the prior written consent of the other party. Notwithstanding the foregoing. Seller may assign this contract to any successor in interest to that portion of FTI Technologies' business involved in the subject matter of this contract.

24. RAW MATERIAL SURCHARGE

The Seller may pass on a price increase due to an industry wide raw material surcharge. This increase will be limited to cover the actual cost increase, which is beyond the control of the Seller. Raw materials surcharges will be invoked to the customor separately with adequate documentation to support the surcharge.

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|                                                                                                                                                                                                                                                                 |                                                                              |                   |
| Rüssell Beach, 02:48 PM 3/26/2004 -0600, Budgets for                                                                                                                                                                                                            | r Big Bend                                                                   | Page 1 of 1       |
|                                                                                                                                                                                                                                                                 |                                                                              |                   |
| Reply-To; <rbeach@continentalconveyor.com><br/>From: "Russell Beach",<rbeach@continentalconveyor.com></rbeach@continentalconveyor.com></rbeach@continentalconveyor.com>                                                                                         |                                                                              | · ·               |
| To: <stamberg@evainc.com></stamberg@evainc.com>                                                                                                                                                                                                                 |                                                                              |                   |
| Co: <jsmothers@continentsiconveyor.com>,</jsmothers@continentsiconveyor.com>                                                                                                                                                                                    |                                                                              | ,                 |
| <pre><rstough@continentalconveyor.com>,   <mroberts@continentalconveyor.com>,</mroberts@continentalconveyor.com></rstough@continentalconveyor.com></pre>                                                                                                        |                                                                              | · · ·             |
| <runred@holmail.com>,</runred@holmail.com>                                                                                                                                                                                                                      |                                                                              |                   |
| <br><br><br><br>                                                                                                                                                                                                                                                |                                                                              |                   |
| Subject: Budgets for Big Bend<br>Date: Fri, 26 Mar 2004 14:48:21 -0600                                                                                                                                                                                          |                                                                              |                   |
| Organization: Continental Conveyor                                                                                                                                                                                                                              |                                                                              |                   |
| X-Mailer: Microsoft Outlook, Build 10.0.2627<br>Importance: Normal                                                                                                                                                                                              |                                                                              |                   |
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| X-psin-addresses: from <rbeach@continentalconveyor.com< td=""><td> &gt; [3624/154]</td><td>•</td></rbeach@continentalconveyor.com<>                                                                                                                             | > [3624/154]                                                                 | •                 |
| John,                                                                                                                                                                                                                                                           |                                                                              |                   |
| Attached for your use is budget pricing for the two conveyor                                                                                                                                                                                                    | s we discussed at the Big Ben Pow                                            | /er Plant.        |
| Please call if you need more information .                                                                                                                                                                                                                      |                                                                              |                   |
|                                                                                                                                                                                                                                                                 |                                                                              | · · ·             |
| Bøst Regards,                                                                                                                                                                                                                                                   |                                                                              | •                 |
| Russell Beach, CET                                                                                                                                                                                                                                              |                                                                              | ,                 |
| Estimator/Engineered Systems                                                                                                                                                                                                                                    |                                                                              |                   |
| privileged and confidential information, or information of a p<br>or any agent responsible for delivering it to the intended rec<br>this document in error, and that any review, dissemination,<br>prohibited. If you have received this communication in error | iplent, you are hereby notified that<br>printing, or copying of this message | you have received |
| •<br>•                                                                                                                                                                                                                                                          | н.<br>1                                                                      |                   |
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| Big Ben Budget Conv Options 0326 doc                                                                                                                                                                                                                            |                                                                              |                   |
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|                                                                                                                                                                                                                                                                 | DOCKET NO.                                                                   | 031033-EI         |
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| Printed for General Delivery <eva@evainc.com></eva@evainc.com>                                                                                                                                                                                                  |                                                                              | 5 P1 & I2 (A &    |

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FAX NO. 7032769541

CONTINENTAL CONVEYOR

& EQUIPMENT COMPANY The Went's haden in Corregion and Conceptor Testarelogy



433 Industial Onlya Post Office Box 406 Winflad, Alabama 33594-0402 Te'ephone: 235487-4592 r ac: 205447-4233 E-ruik ielogocantiaertaiconveyor.com

FÁLZI OFFICES: JESPÉR, LE -DOSTON, DE -FORDIR, KE -DELTA, BRITIER COLDUCIA -CAREANAR, KY -BAFISONYILLE, KY -ICUBIDY, YI -LARENOOD, CO -LOG ENCELES, CL -IEW YORK, DE -DAK BILL, WY DAPAR, RE -PHILADRIAMA, VA -PITTEBDECH, PA - PORTLEND, OR -PREALA, RERICE -JALT LARE CITY, ET -VELLTBERVILLE, KY

March 26, 2004

Ecergy Ventures Analysis, Inc. 1901 N Moore St, Suite 1200 Arlington VA 22209-1706

Attention: Mr. John Stamberg

Subject: Budget Pricing for the Big Ben Plant

Doar John;

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Continental Conveyor is pleased to provide the following budget pricing per your request for the Big Ben Plant.

One (1) 54" B.W. Conveyor with 3,300 foot horizontal pulley centers and with a lift of 15 ft. to handle 2500 STPH of 50 PCF coal (3" X 0 hump) operating at a speed of approximately 725 FPM.

Terminals include one (1) 450 HP head end drive, motor, belt scrapers, discharge hood, tail loading hopper, impact idlers, pulley outfits, bearings and gravity take-up.

Intermediate structure (3,290 LF) includes truss with belt covers, pull cord and switches, walkway one side, idlers, belt, average span length of 80 fect and 42 bents at 18'-0 height.

Your budget price, F.O.B. Factory, Winfield, Alabama, is: Estimated orection cost is

<u>\$1.953.000.00.</u> \$ 780.000.00.

\$ 2733,000

EXHIBIT NO. (JBS-5) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 2

RYDUTS

Energy Ventures Analysis, Inc. March 26, 2004

Page 2

One (1) 42" B.W. Conveyor with 2,100 foot horizontal pulley centers and with a lift of 15 ft, to handle 2500 STPH of 50 PCF coal (3" X 0 lump) operating at a speed of approximately 725 FPM.

Terminals include one (1) 200 HP head end drive, motor, belt scrapers, discharge hood, tail loading hopper, impact idlers, pulley outfits, bearings and gravity take-up.

Intermodiate structure (2,090 LF) includes truss with belt covers, pull cord and switches, walkway one side, idlers, belt, average span length of 80 feet and 26 bents at 18'-0 height.

Your budget price, F.O.B. Factory, Winfield, Alabama, is: Estimated erection cost is

<u>\$1.150.000.00.</u> \$ 4**60,00**0.00.

The above prices do not include MCC's and controls, etc.

Please call with any questions or if you need more information.

Best regards.

cċ:

CONTINENTAL CONVEYOR & EQUIPMENT COMPANY

Russell Beach, CET Estimator/Engineered Systems

> Jim Smothers Ron Stough Mike Roberts Bill Taylor

THIS QUOTATION IS SUBJECT TO CONTINENTAL CONVEYOR'S EXCLUSIVE TERMS AND CONDITIONS OF SALE, 171-169, REY, 40-8-1-95.

EXHIBIT NO. (JBS-5) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 2 OF 2

# Exhibit \_\_\_\_(JBS-6)

# Rapid Discharge Pit and Conveyor – EVA Estimates

EXHIBIT NO. (JBS-6) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 12

Rapid Unloading Oct & Conveyor Chim Cunciele Conveyos 190,052 · . Unpress ... -96000 ... Hales Transfers Hense 230000 802;104. 107,264 Dewabi Theel Pality 187,264 Execution 2000 Concrete 127,130 1,287,762 × 1.061 1.164 \$1,590,391 EXHIBIT NO. . (JBS-6) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 2 OF 12

# FHX NU. (U32/69541

Rapid Vis dunge System Regard Pracolare Convege 20 2025 180 32400 Consegon 190  $\omega$ Shard General 5.3.0, 150 x 190 = 1.90, 05.2. 151 2 Kama. 150 190,050 1020 Neps and 96,000 Q @ 48,000, Brakes 96,000 2 9 48 000 572,104 unders Harry 230,000 rom. Concrete . 802,104. EXHIBIT NO. (JBS-6) JOHN B. STAMBERG - CSXT ) DOCKET NO. 031033-EI PAGE 3 OF 12

# FAX NU. /U32/69541

P. 07

| X                                         |                                                                       | ,        |
|-------------------------------------------|-----------------------------------------------------------------------|----------|
| Commente 100-12                           |                                                                       |          |
|                                           | - · · · · · · ·                                                       |          |
| 25                                        | · · ·                                                                 |          |
| 150                                       | 3 156                                                                 |          |
| Davidona 3 12/                            | 712/02 62                                                             |          |
| 1:1 Well Pordo                            | 1,24                                                                  | · · ·    |
| · · · · · · · · · · · · · · · · · · ·     | 17<br>JR                                                              |          |
| 163 y 424 x km                            | \$-70,000                                                             |          |
| 33.50 × 30Hdeep ×18wees =                 | \$12,0000                                                             | • • •    |
| 5726/day Rung × 30 day                    | 21,600                                                                | · ·      |
|                                           | 109,690                                                               | ,<br>,   |
| Sloved Paling Left                        | •, • • • • • • •                                                      |          |
| 101 @ 38#/42                              | · · · · ·                                                             | ;        |
| 100 + 100 + 12 +12 =224 ×40<br>= 8960 112 | · · · ·                                                               |          |
| 3.12 #/11 × 8960 = 340,480 # =            |                                                                       | •        |
| 170,24 tons V1,100                        | IB7,264<br>EXHIBIT NO. (<br>JOHN B. STAMBERG -<br>DOCKET NO. 031033-E | CSXT     |
|                                           | PAGE 4 OF 12                                                          | , ,<br>, |

THR-29-2004 NON ULIUS MA EVA

# FAX NO. 7032769541

P. 08

En richard again aleva -25 1111. gd 3 x1-79 2000 12 1 100 128 27 2 yd Buchail Budde (JBS-6) EXHIBIT NO. JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 5 OF 12

25×12×2 600 M2 Concrete · 100 x 2 5 + 2. 5000 5-600 form Wal 359,020 10,55 45600 fl' Central Igise Gunnale \$ 197 /gd3 25 x 2 2500 12 55000 H Roter and 12,25+2 - 600 2500 both €100 µ2 × 11/2 Ret = 12, 150 pt? 21 27 450 \$ \$8650 147,750 in 100 H × 9114 = 5400 113 3600 × 1.5 100 27 18-25' × 42 200 (JBS-6) EXHIBIT NO. 197 39,4001 JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 6 OF 12

THK-29-2004 TUN UI:06 PM EVA

FAX NO. 7032769541

P. 10

|                |                | t-In-Place Concrete                            |              |             |       |       |              |                 |              |              |               |            | . f        |          |
|----------------|----------------|------------------------------------------------|--------------|-------------|-------|-------|--------------|-----------------|--------------|--------------|---------------|------------|------------|----------|
| 611            | 100            | Structural Concrete                            | _            | _           |       | LABOR |              |                 | 1999 BAR     | E COSTS      |               | TOTAL      |            | <b>_</b> |
|                | 100            | Directoret Concides                            |              |             | NITH  | HOURS | UNT          | MAT.            | LABOR        | EQUIP.       | TOTAL         | INCL OAP   |            |          |
| 3800           | Footings, spre | ad under ± C.Y.                                | C-1          | 14C         | 38.07 | 2.942 | C.Y.         | 89.50           | 77           | .97          | 167.47        | 223        | 130        | ī        |
| 3850           | Over 5 C       | Y. WEILE                                       | 7910         |             | 81.04 | L.382 |              | 82.50           | 36           | .46          | 118 96        | 149        | 1          | -        |
| 3900           | Footings, stra | , 18' x 9', plan                               |              | <b>}</b>    | 41.04 | 2.729 |              | 80.50           | 71.50        | .90          | 152.90        | 204        | . 1        |          |
| 3950           |                | , reinforced                                   |              |             | 61.55 | 1.820 | 11           | 83              | 47.50        | .60          | 131.10        | 168        |            |          |
|                |                | n, under 10 C.Y.                               |              | ╂╍╍┦        | 38.67 | 2.896 | ┝╼╂╍┙        | 113             | 75.50        | .96          | 189.46        | 247-       | . }        |          |
| 1050           | Ovu 20         |                                                |              | 1           | 56.40 | 1.986 |              | 101             | 52           | .66          | 153.66        | 194        | ş          |          |
|                |                | " thick, 8' high                               | "            | 14D         | 45.83 | 4.364 | ┠╌┼─         | 97.50           | 119          | 14.90        | 231 40        |            | . 1        | 1        |
| 4250           | 14' J          |                                                |              | 1           | 27.26 | 7.337 |              | 124             | 199          | 25           | 348           | 480        |            |          |
| 4260           | 12" thick      |                                                |              | +-'         | 64.32 | 3.109 | ╞─┼─         | 89.50           | 84.50        | 10 65        | 184.65        |            | 1          |          |
| 4270           | 141            |                                                | 1            |             | 40.01 | 4.999 |              | 99.50           | 136          | 17.10        |               |            |            |          |
| 1.300          | 15* (hick      |                                                |              | -           | 80.02 | 2.499 | ┨-┼          | 85.50           | 6\$          | 8.55         | 252.60        | 345<br>210 |            |          |
| 4350           | 12'1           |                                                | 1            |             | 51.26 |       |              |                 |              |              | 162.05        | 1          |            |          |
| 4500           | 18             |                                                |              | ┢           | 48.85 | 4.094 | ┟╌┼╌╴        | <u>89</u><br>99 | 105          | 13.35        | 208.35        | 281        |            |          |
| ſ              |                | ess ramp, railing holli sides, 3' wide         |              | ¥<br>1411   | 40.00 |       |              |                 | 111          | 14           | 224           | 300        |            | {        |
| 4520<br>4525   | 5' w           |                                                | <u> </u> `   | 1111        | 14.58 | 3.292 | L.F.         | 94.50           | 89           | 2.57         | 188 07        | 248        |            |          |
| 4530           |                |                                                |              |             | 1     | 3.928 |              | 108             | 105          | 3.06         | 217.06        | 200        |            | •        |
| 4535           |                | ak walls and rails bolli sides, 3' wille       |              |             | 8 55  | 5.614 |              | 96.50           | 151          | 4.38         | 251 88        | •          | i          | ł,       |
|                | -              |                                                |              | *           | 7.31  | 6.566 | *            | 97              | 177          | 510          | 279.10        | 395        | l i        |          |
| 4700           | 6" thick       | , not including finish, 4" thick               |              | -14E        | 60.75 | 1.449 | <u>C.Y.</u>  | 73.50           | 39           | .62          | 113.12        | 145        |            | 2        |
| •              |                | . But have had the market of the               | 1            | •           | 92    | .957  | 1.           | 70.50           | 25.50        | .41          | 96.41         | 120        |            | (        |
| 4/60           |                | , but, trawaled mish, not incl. forms          |              | <del></del> |       |       |              |                 |              |              | 4             |            | ľ.         | ì        |
|                |                | cing, over 10,000 S.F., 4" Unck slab           | 6            | 34          | 3,425 | .0Z1  | S.F.         | .79             | .52          | .01          | 1.32          | 1.67       | 1          | i        |
| 4820)<br>4840] |                | sek slab                                       |              |             | 3,350 | .021  |              | 1.16            | .53          | Ú1           | 1.70          |            | ]          | ļ        |
|                |                | ick slab                                       | 1.           |             | 3,184 | .023  |              | 1.59            | .56          | .01          | 2.16          | 2.60       |            | ł        |
| 4900           |                | hick stab                                      | Ì_           |             | 2,734 | .026  |              | 2.38            | .65          | .01          | 3 04          | 3.63       |            | ĺ        |
| 1950           |                | lik k sl.id                                    | · ·          | ₩           | 2,505 | .029  | <b>↓</b>     | 2.99            | .71          | .01          | 3,71          | 4.39       |            | ŀ        |
| 5000           |                | , incl. textured finish, not incl. forms       |              |             |       |       |              |                 | • • • •      |              |               | }          |            | Į        |
| 5001           |                | cunzi, 4" thick slab                           | C.           | 140         |       | .019  | ŞГ.          | .79             | .48          | .01          | 1.28          | 1.61       | 1          | i        |
| 5010           | ሮ ዘ            | ick                                            |              |             | 2,590 | .022  |              | 1.24            | .53          | JÛ.          | 1.78          | 2.18       |            | ţ        |
| 50.20          | 81             |                                                |              | ŧ           | 2,320 | .024  | <b>I</b> ¥   | 1.62            | .59          | .02          | 2.23          | 2.70       | i i        | 1        |
| 5200           |                | icri above the loundation, incl. forms,        |              |             |       | L     |              |                 |              |              |               |            |            | ¥        |
| \$710          |                | g, concrete and columns, minimum               | Ic           | 148         | 2,113 | 098   | S.F.         | 4 74            | 2.69         | .32          | 7.75          | 9,85       | 1          | :        |
| 5250           | Avit           |                                                |              |             | 1,650 | .126  |              | 5 20            | 3.45         | .41          | 9.06          | 11.70      |            | •        |
| 5,00           | Maxi           |                                                |              | ¥.          | 1,500 | .139  |              | 5.80            | 3.79         | .45          | 10.04         | 12.90      |            | 1        |
| 5500           | Liebtweicht, i | early mix, lichning screed finish only,        |              |             |       |       |              |                 |              | '            |               |            |            |          |
| 5510           | l ton          | icluding torums or reinforcing                 |              |             |       |       |              |                 |              | ****         | ·             |            |            |          |
| 5550           |                | nutural roof decks                             | C.           | 148         | 260   | .800  | C.Y.         | 91.50           | 72           | 2.62         | 11512         | 139        | l          |          |
| 5600           |                | round slab with radiant heat                   |              | -14F        | 92    | 783   | 11           | 86.50           | 19.40        | .41          | 106.31        | 125        | í          | 1        |
| 5650           | 1:3.2 wil      | is sand approgate, roof deck                   |              | 148         | 1     | .800  |              | 91.50           | 22           | 2.62         | 116.12        | 139        |            |          |
| \$700          | Geor           | dik sin                                        |              | 14F         | 107   | 573   |              | 91.50           | 16.70        | .35          | 108.55        | 127        |            |          |
| 5900           | Pile cops, inc | l forms and reint, sq. or rect., under 5 C.Y.  | 1            |             | 54.14 | 2.069 |              | 86              | 54           | .58          | 140 68        | 182        | 1          |          |
| 5/50           |                | 10 C.Y.                                        | ──~ <u>}</u> | T           | 75    | 1.493 | ┢┼─          | 83 50           | 39           | .49          | 172.99        |            | ĺ          |          |
| 6000           | Trizmgula      | or hexagonal, under 5 C.Y.                     |              |             | 53    | 2.113 |              | 79              | 55           | .n           | 134.70        | 1          |            | 1        |
| 1050           |                | 10 C.Y.                                        |              | <u>+</u>    | 85    | 1.318 | ┟╌╎╌╴        | 83.50           | 34.50        | .43          | 11843         | 147        | 1 ·        | 1        |
| 6200           |                | s, gravity, 4' high see division 022-708       | l c          | 140         | 1     | 3.021 |              | 81              | 82           | .43<br>10.35 | 173 35        |            |            | ι        |
| 6250           |                |                                                | ···          | T           | 125   | 1.500 | ┢╌╿╌         | 72              | 43.50        | 5.45         | 173 35        | 154        | ł          |          |
| 6300           |                | r, level backfill loading, 8' high             | }            | 1           | 70    | 2.857 |              | 88              | 77 50        | 9.75         | 120.95        | -÷1        |            |          |
| 6350           | 16'            |                                                | ~~┣-,        | ±           | - 191 | 2.198 | ┢┼╌          | 85.50           | 59.50        | 7.50         | 175.25        |            | 1          |          |
| 6800           |                | hiding salely lieads, free standing, 3-6" wide | c            | 1411        |       | 578   | LF Nose      | 1               | 35.60        | .30          | 21.80         |            | 1          |          |
| 6850           |                | on ground                                      |              | 1           | 125   | 384   |              | 4 05            | 10.35        | .30          | 14.70         | <u></u>    |            |          |
| 7000           |                | Buy- bre standing                              | 1            | 1           | 200   | .240  | S.F.         | 2.25            | 6.50         | .30          | 14.70<br>8.94 |            | 1 · · · ·  |          |
| 7050           |                | on ground                                      |              |             | 475   | 101   |              | 1.30            | 2.73         | .19          | 4 11          | 5 85       |            |          |
| '              | •              |                                                |              | Ŧ           |       |       | ]            |                 |              | .00          | 411           | 200        | <b>I</b> . |          |
| 0010 CU        | RING Risting   | I uses assumed, 7.5 or.                        | 2            | Clab        | 55    | .291  | C.S.F.       | 2.55            | 6.25         |              | 8.80          | 12.60      | 134        |          |
| 0100] '        | 12 0           |                                                | -<br>        | 1           | 55    | .291  |              | 3.74            | 6.25         |              | 9.99          |            | 134 -      |          |
| 0200           | Waterpio       | nt curing paper, 2 ply, reinforced             |              | -           | 70    | .229  | <b>  -  </b> | 4.71            | 4.90         |              |               | 13.90      | ł          |          |
| 0300           |                | membrane curving compound                      | 1            | 1           | 95    | 168   |              | 2.42            | 4.90<br>3.61 |              | 961           | 12.90      | 1 · · ·    |          |

EXHIBIT NO. \_\_\_\_ (JBS-6)

18 JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI The Reference Section for critical supporting data - Reference Nos., Crows, & City Cost Indexes PAGE 7 OF 12

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FAX NO. 7032769541

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| The second state of the |      |                                                                                                                 | crete Formwork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | _             |                 |        | _          |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------|------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| 12:00         · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 031  | 100                                                                                                             | Struct C.J.P. Formwork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                 |        |            |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1999 BA | E COSTS |                  | TOTAL          |
| 2400     Over & to 16 mgh, 1 sec     (     280     771     1.6     4.57     8.0     11       2501     June     106     137     1.16     137     1.6     1.7       2501     June     137     1.26     8.1     3.41     4.24     4.2       2501     June     137     1.26     2.8     3.41     4.24     4.2       2702     Over 10 tigh, 1 use     135     1.32     3.1     4.2     4.5     1.7       2703     June     1     130     1.45     1.7     3.66     1.75     4.41       2704     Autor     1.10     1.10     1.10     1.10     1.10     1.10       2705     Control tight, 1 use     1.10     1.10     1.25     4.41     1.30       2705     Autor     1.10     1.26     4.27     1.53     1.10       2704     June     1.26     2.5     3.10     1.26     4.27     1.53       2705     Autor     1.26     2.15     3.10     2.16     1.26     4.27     1.26       2705     June     1.26     2.15     3.17     1.28     2.16     1.26       2705     June     1.26     2.15     1.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | · • • • • • • • • • • • • • •                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |        |            | -              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | EQUIP.  |                  | INCL DEP       |
| 9600     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                | C-2           |                 |        | SFC        | `A             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         | 3.56             | 5.3            |
| State         Jos         Jos <thjos< th=""> <thjos< td="" th<=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>]</td><td>3.60</td><td></td><td></td><td>817</td><td>11.1</td></thjos<></thjos<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                       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                                                                                                                                                                                                                 |         |         | 817              | 11.1           |
| Nome         Total         Nome         Nome <t< td=""><td></td><td>ĩ</td><td>•</td><td></td><td></td><td>1</td><td>11</td><td></td><td>1.16</td><td>3.71</td><td></td><td>1.8/</td><td><u> </u></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | ĩ                                                                                                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                 | 1      | 11         |                | 1.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.71    |         | 1.8/             | <u> </u>       |
| Oper 16 high L and         224         264         264         264         372           7205         2 k/6         1         20         3 k/7         1         200         3 k/7         1         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100       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                                                                                                                                                                                                                                                                                                                        | 3.41    |         | 4 24             | 6.2            |
| PTRO         2 use         1         PTRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | -                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                   | 3 24    |         | 3 92             | 58             |
| 1200     2000     1     200     166     1.29     4.41     5.70       2800     6 archesteral firsh, ad0     1.20     1.25     5.8     70     1.28       1200     70     70     1.20     1.25     5.8     70     1.28       1100     70     2.00     1.20     1.25     5.9     70     1.28       1100     2.00     70     2.00     1.20     1.25     4.21     5.70     1.28       1100     2.00     3.00     6.00     1.26     4.27     5.33     1.25       1100     3.00     6.00     1.26     4.27     5.70     6.65       1101     3.00     6.00     1.26     4.27     5.70     6.65       1101     2.00     2.00     70     3.87     6.65     1.10       1220     3.00     4.00     70     3.87     6.65     1.10       1220     4.00     70     3.87     6.65     1.10     6.65       1220     4.00     70     3.87     6.65     1.10       1220     4.00     70     3.87     6.65     1.10       1220     4.00     1.00     4.00     1.00     4.00       1200                                                                      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                                                                                                                                                                                                                                                                                                                        | 5.45    |         | 7./9             | 11)            |
| 0000       - 210-       331       1.122       331       4.06       4.99       1         0000       For architectura finity, add       1.160       1.26       5.80       70       1.28         0000       Rohal wallarms, simooth curred, luse       286       1.80       1.26       4.27       5.53       70       1.28         0000       2 to a       230       1.62       1.26       4.27       5.53       70       1.88         0000       3 to a       3.32       1.44       .92       3.84       4.85       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       8.45       70       70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.41    |         | 5.70             | 8.3            |
| Ston         For and National Series, Series         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         1.800         700         720         800         700         720         800         700         720         800         700         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                                                 | 31150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                        | 4.06    |         | 4.99             | 7.4            |
| Nm     For architectural territy, add     1 120     026     56     70     1 28       Office     Rotalina validitions, simolab curved, 1 use     26     366     2.30     570     1 28       Office     3 uno     328     148     .52     324     427     530       Office     3 uno     328     148     .52     324     427     530       Office     1 uno     325     141     .75     382     4437       Office     1 uno     325     141     .75     382     4437       Office     1 uno     225     213     1.25     5.70     7.24       Office     1 uno     225     213     1.25     5.70     6.65       Ottomed     value     225     213     1.25     5.70     6.65       Ottomed     value     325     1.35     1.04     3.00     4.64       Ottomed     value     325     1.35     1.04     3.00     4.64       Ottomed     1 uno     200     .64     3.00     3.00     4.66       Ottomed     1 uno     .35     1.35     .40     3.00     4.67       Ottomed     1 uno     .35     1.35     .40     3.00<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | •                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3 88    |         | 4.64             | 6.9            |
| Atternal wile lating, sanoph curved, I use         226         136         2.30         500         750         11           100         3 Vie         300         160         1.25         427         553         163           100         3 Vie         300         160         1.25         427         553         443         75         332         4457         455           200         100         100         125         217         2.76         5.70         6.63         112           2102         2 tota         202         213         1.24         5.70         6.63         112           227         3 tota         225         213         1.25         5.70         6.63         116           228         3 tota         225         713         1.26         5.70         6.63         116           300         4 tota         205         1.35         1.04         3.60         4.41         6.53           400         1.00         400         1.00         6.65         4.41         6.53           205         3.92         4.07         7.65         3.82         3.61         4.53           660         5.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | Far .                                                                                                           | volueelural fuich, add                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | .70     |         | 1 28             | 1.7            |
| Arrow         Jone         Jone <thjone< th="">         Jone         Jone         <th< td=""><td></td><td></td><td></td><td></td><td>24</td><td>.196</td><td></td><td>~†</td><td>2.30</td><td>5 20</td><td></td><td>1.1758 4.18 4.44</td><td>10.7</td></th<></thjone<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                                                     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                                                                           |               | 24              | .196   |            | ~†             | 2.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5 20    |         | 1.1758 4.18 4.44 | 10.7           |
| 1100       3 ura       325       148       32       334       455         200       Well latms, smooth curved, bolow grade, glo bull pyform, 1 use       225       213       2.78       5.70       6.63       12         2100       2 use       2.25       213       2.278       5.70       6.63       12         225       213       2.25       213       1.25       5.70       6.63       12         225       213       2.25       213       1.25       5.70       6.63       12         225       213       1.25       5.70       6.63       14       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60       6.60 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1  </td> <td></td> <td>1.26</td> <td></td> <td></td> <td>1 1</td> <td>81</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                        |         |         | 1 1              | 81             |
| 1130         4 use         335         143         75         382         4.57           1200         Will loins, smooth curved, bolw grade, pbb bull pjd/sm, 1 use         225         213         2.78         5.70         8.64         11           1200         2 use         225         213         1.24         5.70         6.65         11           1201         2 use         225         213         1.24         5.70         6.65         11           1201         4 ure         225         213         1.24         5.70         6.60         6.65           1205         2 use         355         1.35         1.04         1.66         1.89         7.60         6.67           1205         2 use         355         1.35         1.04         1.60         4.61         5.57         7.7         6.60         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67         6.67 <t< td=""><td>•</td><td></td><td>3 une</td><td></td><td>`   <u>"</u>32</td><td>.148</td><td>1-1</td><td>1</td><td>.92</td><td>394</td><td>•</td><td></td><td>7.2</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                |               | `   <u>"</u> 32 | .148   | 1-1        | 1              | .92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 394     | •       |                  | 7.2            |
| 2000     Wall loams, model carled, bolow grade, gob bull plyform, 1 use     225     213     2.775     5.70     6.843       2120     2.utz     1.54     5.70     6.65     111       2230     4.ung     225     213     1.54     5.70     6.65       2230     4.ung     225     213     5.70     6.60     1.66       1000     Curver (Will 2' chards, 1 use     290     1.66     1.88     4.41     6.30       455     2.utz     385     1.25     .73     3.22     4.00       450     4.uoc     385     1.25     .75     3.22     1.00       550     2.use     355     1.35     48     3.60     4.03       650     2.use     305     1.35     .88     3.60     4.03       651     4.use     305     1.35     .88     3.60     4.03       650     2.use     .355     1.35     .88     3.60     4.03       750                                                                                                                                                                                                                              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   |               | 339             | .143   |            |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         | i i              | 6.8            |
| 212)       2 uca       225       213       1.54       5.70       7.26       11         225       3 ura       225       213       1.25       5.70       6.63       11         226       200       1.64       1.84       4.17       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00       6.00<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      | Wall form                                                                                                       | s, smooth curved, below grade, job built plyform, 1 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ╹             | 22              | .213   | 1-1        |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  | 12             |
| 220       3 und       225       213       125       5.70       6.95       11         230       4 und       225       213       30       5.70       6.00       6.00         2455       2 use       365       1.89       4.41       6.50       6.00       6.00         2455       2 use       365       1.35       1.04       3.60       4.64       6.00         450       4 und       4.00       1.20       .46       3.20       3.81       6.00       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01       6.01 <td></td> <td></td> <td>2 use</td> <td></td> <td>22</td> <td>.213</td> <td></td> <td></td> <td>i i</td> <td></td> <td></td> <td></td> <td>10 6</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                |               | 22              | .213   |            |                | i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |         |                  | 10 6           |
| $223$ $4 \ u^{-1}$ $225$ $213$ $50$ $5.70$ $6.00$ $4.00$ $150$ $2 \ use$ $355$ $135$ $144$ $6.30$ $4.01$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$ $6.00$                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                | -1-†          | 22              | .213   |            | -•             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  | 10.3           |
| 300       Curved, will 2 chards, 1 use       290       166       1.89       4.41       6.30       4.44         450       2 use       355       1.35       1.04       3.60       4.64       6.30         450       4 use       385       1.25       7.75       33 22       4.61       6.30         450       4 use       385       1.25       7.75       3.22       4.61       6.227         521       2 use       355       3.35       3.46       3.60       4.03         525       2 use       355       3.35       3.60       4.03         525       2 use       355       3.35       3.60       4.03         600       1.200       .78       3.20       3.40       5.61         601       8 use       305       1.35       .98       3.60       4.53         600       3 use       3.53       1.36       3.64       3.61       4.04       6.00         700       3 use       3.64       3.55       1.28       .71       3.41       4.12       6.00         700       3 use       2.00       1.94       5.35       3.60       2.29       2.87       3.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       |         |                  | 9.9            |
| 150       2 use       355       135       1.04       3.60       4.66       60 $d00$ 3 use       385       1.25       7.75       3.32       4.07       66       66       66       67       3.60       67       3.60       67       3.60       67       3.60       67       3.80       67       3.80       67       3.80       67       3.80       68       4.41       5.27       7       5.6       3.80       4.80       3.60       4.08       6.6       6.6       4.41       5.27       7       5.6       3.87       5.7       3.80       4.08       3.60       4.08       6.6       6.6       4.41       6.27       5.6       3.20       3.40       4.08       6.6       6.6       6.6       4.41       4.27       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       6.65       7.7       3.41       4.12       6.65       7.7       3.41       4.12       6.65       7.7       3.65       7.7       3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1300 | Curved                                                                                                          | with 2" chords, 1 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                         |         | ······  |                  | 9              |
| 400       3 June       385       125       382       4.0       4.0         500       Over 8' help, 1 use       365       135       4.0       5.07       3.0       3.81       5.27         500       Over 8' help, 1 use       365       135       4.8       3.00       4.03       5.77         512       2 use       365       135       4.8       3.00       4.03       0.0         501       3 use       365       125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                                                                                                 | 2 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                 | 1      | 11         | - 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         | 1 .              | 68             |
| 450       4 00       120       .61       3.00       3.81       5.00         500       Over 6' high, 1 use       366       .55       4.41       5.27       7.7         521       2 use       355       .36       .366       .48       3.60       4.08       .66         560       3 use       .366       .55       .44       .527       .36       .322       .366       .66         575       .4 use       .386       .125       .36       .322       .366       .66       .66       .66       .41       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66       .66 <td< td=""><td>400</td><td></td><td>3 050</td><td>┛┛</td><td></td><td></td><td>┟─┼</td><td><math>\rightarrow</math></td><td></td><td></td><td></td><td></td><td>¥</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                         |         |         |                  | ¥              |
| 500         Cwr 8' light, 1 use         280         166         -         85         441         527           525         2 use         335         135         44         3.00         4.03         0           575         3 use         3.00         120         .79         3.00         4.03         0           600         ketaaring will brins, battord, to 8' high, 1 use         300         1.60         1.76         727         6.05           601         2 use         300         1.80         1.76         727         6.05         2           700         3 use         300         1.82         .71         3.41         4.12         6           700         3 use         300         1.28         .71         3.41         4.12         6           700         4 use         330         1.23         .54         3.28         3.82         7           700         3 use         .72         .73         4.20         .4.55         7.29         1.0           700         3 use         .73         .78         4.20         .4.55         7.29         1.0           700         3 use         .73         .78 <td< td=""><td></td><td></td><td>f use</td><td></td><td>- T</td><td></td><td></td><td>- 1</td><td>1</td><td></td><td></td><td></td><td>6.1</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                                                                 | f use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | - T             |        |            | - 1            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |                  | 6.1            |
| 1223       2 use       355       135       48       3.60       4.13         660       388       125       55       3.32       3.61       55         660       120       79       3.20       3.40       55       3.32       3.61       55         660       120       79       3.20       3.40       55       135       498       3.50       4.59       65         660       2 use       355       1.35       .98       3.50       4.59       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       65       66       72.9       10       65       65       65       65       65       65       65       65       66       72.9       10       65       65       65       66       72.9       10       65       65       66       65       66       72.9       10       10       73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1500 | (Nei                                                                                                            | 8' ligh, 1'use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                        |         | ·       |                  | 5.7            |
| 561       3 use       388       125       35       3.32       3.67         575       4 use       400       120       79       3.20       3.49         560       Relaxing with homs, battured, to 8' high, 1 use       300       160       1.78       4.27       6.05         561       2 use       355       1.35       .98       3.60       4.58         560       X use       390       .123       .54       3.28       .382         700       3 use       .200       1.94       555       .71       3.41       4.12       60         700       Ger 8' to 16' high, 1 use       .240       200       1.94       555       .279       17         560       2 use       .240       200       1.94       535       .279       17         100       3 use       .365       1.37       .78       4.20       4.68       7         100       3 use       .302       .50       .63       1.07       4.34       5.41         120       2 use       .320       .50       .63       4.02       4.63       7         121       2 use       .320       .50       .62       .60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                        |         |         |                  | 7.9            |
| 575     1     4 vc     400     120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                        |         | **      |                  | 6.1            |
| 6001         Rectaning with horns, battarod, to 8 high, 1 use         300         160         1.78         4.27         6.65           501         2 use         355         1.35         .98         3.60         4.88         66           720         3 use         3.60         4.88         66         .71         3.41         4.12         66           750         3 use         3.75         1.28         .71         3.41         4.12         66           750         2 use         3.90         1.23         5.4         3.28         3.82         9           750         2 use         2.26         1.63         1.07         4.34         5.41         7           750         2 use         3.05         1.57         .63         4         4.63         7           750         4 use         320         2.50         .260         2.89         6.40         9.29         13           700         3 use         2.25         2.00         .260         1.95         5.45         7.04         10           710         4 use         2.25         2.01         1.25         5.55         3.18         3.9         9.29         9.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 575  |                                                                                                                 | luse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                        |         |         |                  | 5.5            |
| 651     2 une     355     1.35     .99     3.60     4.03       700     3 une     375     128     .71     3.41     4.12       700     Gover 8 to 16 high, 1 use     .390     1.23     .54     3.28     3.82       950     2 uso     .123     .54     3.28     3.82     .13       950     2 uso     .123     .54     3.28     3.82       950     2 uso     .150     .63     1.07     4.34     5.41       950     3 use     .305     .157     .78     4.20     4.98       950     4 use     .305     .150     .63     4     4.63       950     2 use     .150     .63     4     4.63     7       160     Ridaming w.B torn, smooth curve, 1 use     .200     .200     1.59     5.45     .704       170     3 use     .255     .192     1.16     5.10     6.76     9       170     4 use     .200     .123     .289     6.60     929     13       170     4 use     .100     .165     .105     .105     .106       170     4 use     .100     .185     .55     .116     .510       170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 600  | Relaying                                                                                                        | wall torms, battored, to 8' high, 1 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ╉┼┼           |                 |        | ┢─┤        | _ <del> </del> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  | 5.3            |
| 700       3 urd       375       128       71       3.41       6.12       6.01         750       4 urs       390       123       54       3.28       3.82       3.82         950       2 us       240       200       1.94       5.35       7.79       11         950       2 us       200       205       1.63       1.07       4.34       5.41       7         950       2 us       305       1.57       7.8       4.20       2.05       6.3       4       4.63       7         950       4 urs       305       1.57       6.3       4       4.63       7         950       4 urs       305       1.57       6.3       4       4.63       7         950       2 urs       305       1.57       6.3       4       4.63       7         920       2 urs       2 201       1.50       6.3       4       4.63       7         130       3 urs       2 urs       2 201       1.92       1.16       5.10       6.76       9         140       4 urs       2 2 5       1.92       1.85       1.92       5.87       8       1.92       5.87 <td>650</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>i i</td> <td></td> <td></td> <td>1 1</td> <td>86</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                          |         |         | 1 1              | 86             |
| 750     4 use     390     123     54     3.28     3.82       700     Over 8 to 16' high, 1 use     240     200     1.94     5.35     7.99       700     3 use     2 use     295     1.63     1.07     4.34     5.41       700     3 use     320     1.50     6.63     1.07     4.34     5.41       700     3 use     320     1.50     6.63     4.07     4.08       700     4 use     320     1.50     6.63     4.07       700     2 use     320     1.50     6.63     4.07       700     2 use     200     240     2.89     6.40     9.29       701     2 use     200     240     2.89     6.40     9.29       701     3 use     200     240     2.89     6.40     9.29       701     3 use     200     240     2.89     6.40     9.29       701     4 use     200     2.01     2.89     6.40     9.29       701     100     4 use     200     2.89     6.40     9.29       700     10     4 use     200     2.01     1.60     1.08       700     10     4 use     1.08 <td>700</td> <td></td> <td>june</td> <td>╉┿</td> <td></td> <td></td> <td>╉╌┤</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>6.7</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 700  |                                                                                                                 | june                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                                                                            |         |         | 1                | 6.7            |
| 200       Over 8 to 16' high, 1 use       240       200       1.34       5.35       7.29       1.70         550       2 use       200       1.54       5.33       7.29       1.70         600       3 use       305       1.57       .78       4.20       4.98       77         600       4 use       305       1.57       .78       4.20       4.63       77         600       A use       .200       2.40       2.89       6.40       9.29       13         120       2 use       .232       2.04       2.89       6.40       9.29       13         130       3 use       2 use       .232       2.04       1.59       5.45       7.04       10         140       4 use       250       .192       1.16       5.10       6.76       9.8         150       For gang walf formag, 192 S F sections, deduct       250       .192       1.16       5.10       6.76       9.8         160       A use       .200       .225       .192       1.16       5.10       6.76       9.8         170       Unres for fourne, 1 use       .200       .225       .132       .764       4.75       .87 <td>750</td> <td>· ·</td> <td>l use</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>ł L</td> <td>6.1</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 750  | · ·                                                                                                             | l use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                        |         | •       | ł L              | 6.1            |
| 950     2 uso     295     163     1.07     4.34     5.41     7       000     3 use     305     1.57     .78     4.20     4.98     7       050     4 use     320     1.50     6.3     4     4.63     7       100     Ridarling w.8 loren, smooth curve, 1 use     225     200     2.40     2.89     6.40     9.29     13       120     2 use     225     200     1.59     5.45     7.04     10       130     3 use     225     200     1.59     5.45     7.04       140     4 use     280     1.85     .95     4.92     5.87       1410     4 use     280     1.85     .95     4.92     5.87       140     4 use     280     1.85     .95     4.92     5.87       141     4 use     280     1.85     .95     4.92     5.87       140     4 use     1.07     250     0.32     \$7.4     47.5       140     4 use     1.08     270     0.32     \$7.4     47.5       140     9.9     1.85     .95     4.92     5.87     5.62       150     1.02     1.02     1.6     1.02     1.89<                                                       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| 100         3 use         305         137         78         4.20         4.98         7           050         4 urc         305         137         78         4.20         4.98         7           100         Ridauling will form, smooth curve, 1 use         200         240         2.89         6.40         9.29         13           120         2 urse         235         204         1.59         5.45         7.04         10           130         3 urse         260         185         .95         4.92         5.87         8           140         4 ura         260         185         .95         4.92         5.87         8           140         4 ura         260         185         .95         4.92         5.87         8           140         4 ura         260         185         .95         4.92         5.87         8           140         4 ura         260         185         .95         4.92         5.87         8           140         A ura         1 carp         250         0.32         SrCA         4.75         .87         5.62         6           140         .2 ura         .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                        |         |         | 1 1              | 0.5            |
| 050         4 urc         300         1.7         7.8         4.20         4.98         7           160         Ridading will form, smooth curve, 1 use         200         150         63         4         463         7           120         2 urse         200         200         240         2.89         6.40         92.9         13           130         3 urse         200         240         2.89         6.40         92.9         13           130         3 urse         250         192         11.6         5.10         6.76         92           140         4 urse         260         185         .95         4.92         5.87         8           140         4 urse         260         185         .95         4.92         5.87         8           140         A urse         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10%         10% <td>000</td> <td></td> <td>Buse</td> <td>╺┠╌┼╴</td> <td></td> <td></td> <td></td> <td>-</td> <td>1</td> <td></td> <td></td> <td></td> <td>7.9</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 000  |                                                                                                                 | Buse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ╺┠╌┼╴         |                 |        |            | -              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |                  | 7.9            |
| 100       Ridadling w.d. form, smooth curve, 1 use       100       100       100       2.03       4       4.53       7         120       2.05       2.00       2.00       2.00       2.00       2.00       9.29       13         130       3.04       2.05       2.00       2.00       2.00       2.00       2.00       9.29       13         130       3.04       4.04       2.05       2.04       1.59       5.45       7.04       10         140       4.04       1.05       5.45       7.04       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       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                                                                                                                                                                                                                                                                                                                        |         |         |                  | 7.4            |
| 120       2 wc       130       2 wc       130       2 wc       159       5.45       7.04       10         130       3 wc       2 25       204       1.59       5.45       7.04       10         140       4 ir.a       250       1.92       1.16       5.10       6.76       99         140       4 ir.a       260       1.85       .95       5.45       7.04       10         500       For gang wall forment, 192 S.F. socions, deduct       1.92       1.85       .95       5.87       5.87       5.87         550       3.84       S.V. wall intro, deduct       200       0.32       STCA       4.75       .87       5.62       6         600       Auged wood, 4" wale, 1 use       1.0m       750       0.11       1.60       .29       1.89       2         600       Freetwall one, 1.1       200       .27       7.40       .87       827       9       .274       3         600       Freetwall one, 1.12* & 3/4* deep, 1.13e       .300       0.27       5.13       .73       5.88       6         600       4 wc       .000       .12       .125       .137       .139       .24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100  |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | - I.            |        | ┠╌┼        | ŀ              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -       |         |                  | 7              |
| 130       3 use       1.39       3.43       7.04       10         140       4 use       250       192       1.16       5.10       6.76       9         500       For gang half formag, 192 SF sections, deduct       260       185       .95       4.92       5.87       8         500       Sin SJ: sections, deduct       10%       10%       10%       10%       5.87       8         500       Aged wood, 4' wide, 1 use       10       10%       10%       5.87       8       5.62       6         600       Aged wood, 4' wide, 1 use       10       400       0.20       2.63       5.55       3.18       3         600       For gang half formag, 1 use       10%       750       011       1.60       2.99       1.89       2         600       For gang half formag, 1/2 & 3/4' deep, 1 use       750       011       1.60       2.99       1.89       2         600       For gang half formag, 1/2 & 3/4' deep, 1 use       300       0.27       5.15       7.73       5.62       6         600       A use       250       032       7.40       87       2.74       1         100       Bipland kook, 1/2' & 3/4' deep, 1 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | -               | 1      |            |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  | 13.2           |
| 140       4 ir.0       2.50       1.92       1.16       5.10       6.76       9         500       For gang wall former, 192 SF sections, deduct       95       4.92       5.87       8         550       314 SJ sections, deduct       95       4.92       5.87       8         550       314 SJ sections, deduct       90%       20%       10%       10%       10%         560       1.85       0.32       STCA       4.75       .87       5.62       6         600       Auxd wood, 4" wale, 1 use       100       0.20       2.63       .55       3.18       3         800       4 use       750       0.11       1.60       .29       1.89       2         900                                                                                                                                                                                                                                                                                                                                                                     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                                                                                                                                                                                                                                                                                                                        |         |         |                  | 10.3           |
| 500     For gang wall forment, 192 S F sections, deduct     10%     10%       450     3H9 SJ sections, deduct     10%     10%       750     Liners for forms (Add to wall forms), AB S, plastic     20%     20%       600     Ased wood, 4" wale, 1 use     1 Carp     250     0.32     STCA     4 75     B7     5.62     6       600     Ased wood, 4" wale, 1 use     1 carp     250     0.32     STCA     4 75     B7     5.62     6       600     Ased wood, 4" wale, 1 use     1 carp     250     0.32     STCA     4 75     B7     5.62     6       600     Fractized rape rib, 1 use     1 carp     250     0.32     STCA     4 75     B7     5.62     6       600     Fractized rape rib, 1 use     1 carp     750     0.11     1.60     29     1.89       700     4 use     750     0.11     2.45     2.99     2.74       100     Rithed took, 1/2" & 3/4" deep, 1 use     750     0.02     5.15     .73     5.28       600     .00     0.00     1.65     27     1.92     2       100     Rithed took, 1/2" & 3/4" deep, 1 use     750     0.01     1.65     27     1.92       200     4 use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                                                 | - 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| 250       3 H4 St sections, deduct       10%       10%       10%       10%         750       Uners for furnis (add to wall forms), A.B.S. plastic       20%       20%       20%       20%         800       A.ged wood, A* wale, 1 use       1 use       1 Cmp       250       0.32       STCA       4 75       .B7       5.62       6         800       A.ged wood, A* wale, 1 use       1 use       2 use       1 0%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%       1 10%     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                                                                                                                                                                                                                                                                                                                        |         |         | 5.87             | 88             |
| 750       Unurs for furnits fadd to wall forms), A.B.S. plastic       1 Carp       250       0.32       STCA       4 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | - i  | 354                                                                                                             | St sections deduct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                 | 1      | <b>I</b>   | - 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| B(1)         Auged wood, 4" wide, 1 use         1 Carp         250         0.32         STCA         4 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 1000 $200$ $200$ $200$ $200$ $210$ $200$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $210$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$ $2100$                                                                                                                                                                                                                                                                                                                                                                                                      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| 840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -             |                 |        | 510        | <u>A</u> .     | ss a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |         | 5.62             | 6.5            |
| $300$ Fructized rope rib. 1 use $1.00$ $29$ $1.89$ $2$ $300$ $4$ use $250$ $0.32$ $7.40$ $87$ $8?/$ $99$ $300$ Righted kode, $1/2^{\circ}$ & $3/4^{\circ}$ deep, 1 use $750$ $0.11$ $2.45$ $2.9$ $2.74$ $300$ $0.27$ $5.15$ $.73$ $5.88$ $60$ $200$ $4$ use $800$ $0.10$ $1.66$ $27$ $1.92$ $2$ $200$ $4$ use $800$ $0.10$ $1.65$ $27$ $1.92$ $2$ $200$ $4$ use $250$ $0.32$ $4.80$ $87$ $5.67$ $6$ $400$ $4$ use $250$ $0.32$ $4.80$ $87$ $5.67$ $6$ $500$ Strated, random, $3/8^{\circ}$ x $1/8^{\circ}$ deep, 1 use $250$ $0.32$ $1.80$ $27$ $1.92$ $2$ $500$ Strated, random, $3/8^{\circ}$ x $1/8^{\circ}$ deep, 1 use $250$ $0.32$ $1.80$ $300$ $0.27$ $5.10$ $.73$ $5.81$ $60$ $600$ $0.10$ $1.65$                                                                                                                                                                                                                                                                                                                              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| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                                                                                                 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -   -  -      |                 |        |            | <b></b> f.     | The left design of the state of |         |         |                  | 22             |
| 100       Rupland kook, $1/2^{\circ}$ & $3/4^{\circ}$ deep, 1 use       1/30       .011       2.45       .29       2.74       1         200 $4$ use       300       .027 $5.15$ .73 $5.88$ 6         200 $4$ use       800       .010 $1.65$ .27 $1.92$ 2         200 $4$ use       250       .032 $4.80$ .87 $5.67$ 6         300       .4 use       250       .032 $4.80$ .87 $5.67$ 6         500       Strated, random, $3/8^{\circ}$ x $1/8^{\circ}$ deep, 1 use       750       .011 $1.60$ .29 $1.89$ 2         500       Strated, random, $3/8^{\circ}$ x $1/8^{\circ}$ deep, 1 use $800$ .027 $5.10$ .73 $5.83$ 6         500       Rular stion strips, A.B.S. plastic, 2 piece snap-on $800$ .010 $1.65$ .27 $1.92$ 2 $500$ $1^{\circ}$ they x $1.3/8^{\circ}$ wide, 1 use $C2$ $400$ $1.20$ $1.7$ $3.20$ $6.95$ $9$ $500$ $2$ use $600$ .080 $2.10$ $2.13$ $4.23$ $5.67$                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                        |         |         | 827              | 9.5            |
| 200 $4 \text{ tree}$ 300 $027$ $5.15$ $.73$ $5.88$ $6$ 301       Ruista laak pattern, 1 use $800$ $010$ $1.65$ $27$ $1.92$ $2$ $401$ $4 \text{ tree}$ $250$ $032$ $4.80$ $87$ $5.67$ $6$ $500$ Strated, random, $3/8^{\circ}$ x $1/8^{\circ}$ deep, 1 use $750$ $011$ $1.60$ $29$ $1.89$ $2$ $500$ Strated, random, $3/8^{\circ}$ x $1/8^{\circ}$ deep, 1 use $300$ $.027$ $5.10$ $.73$ $5.83$ $6$ $500$ Ruist stion strips, A.B.S. plastic, 2 piece snap-on $800$ $010$ $1.65$ $27$ $1.92$ $2$ $800$ $010$ $1.65$ $27$ $1.92$ $2$ $800$ $010$ $1.65$ $27$ $1.92$ $2$ $800$ $010$ $1.20$ $1.5$ $3.20$ $6.95$ $9$ $900$ $2$ use $600$ $080$ $2.10$ $2.13$ $4.23$ $5$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - <b> </b>  - | s               |        |            | _              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  | 31             |
| 100     Ruista, (mak pattern, 1 use     100     103     27     1.92     2       100     A use     250     032     4.80     .87     5.67     6       100     A use     750     011     1.60     .29     1.89     2       100     Strated, random, 3/8" x 1/8" deep, 1 use     300     .027     5.10     .73     5.83       140     4 use     800     .010     1.65     .27     1.92     2       140     4 use     800     .010     1.65     .27     1.92     2       140     1.02     1.73     5.83     6       140     1.05     .27     1.92     2       140     1.05     .27     1.92     2       140     1.05     .27     1.92     2       140     1.05     .27     1.92     2       140     1.05     .27     1.92     2       11     1.65     .27     1.92     2       12     1.78*     wide, 1 use     C-2     400     1.20     1.7       130     2.13     4.23     5     5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | entite of the second | and the first of the second states and the second states of the second s |               | 1               |        |            |                | ſ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |                  | 6.8            |
| 400     -4 u.e     -250     .052     -8.80     .87     5.67     6       500     Strated, random, 3/8" x 1/8" deep, 1 use     -750     .011     1.60     .29     1,89     2       140     -4 u.e     -800     .027     5.10     .73     5.83     6       500     Runitristion strips, A.B.S. plastic, 2 piece snap-on     -800     .010     -1.65     .27     1.92       650     1" direp x 1.3/8" wide, 1 use     -2.2     400     .120     1.F.     3.75     3.20     6.95     9       500     -7 use     -600     .080     -7.10     2.13     4.23     5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | ** * * *                                                                                                        | an and a second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ╉╄            |                 |        | $\vdash$   | _              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 27      |         |                  | 2.2            |
| Strated, random, 3/8" x 1/8" deep, 1 use         730         U11         1 60         23         1,89         2           140         4 use         300         .027         5.10         .73         5.83         6.           600         Runit sition strips, AB S, plastic, 2 piece snap-on         800         010         1.65         27         1.92         2           650         1" direp x 1.3/8" wide, 1 use         C-2         400         1.20         1.7         3.20         6.95         9           600         .28         600         .080         2.10         2.13         4.23         5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                |               | 1               |        |            |                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ,       |         |                  | 6.6            |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ╺┠═╟╴         |                 |        |            | _              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |         |                  | 2 23           |
| Bundle strips, ABS, plastic, 2 piece snap-on         4 050         1.65         27         1.92         2           650         1° devp x 1.3/8° wide, 1 use         C-2         400         .120         L.F.         3.75         3.20         6.95         9           900         2 use         600         .080         2.10         2.13         4.23         5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | តមុរស<br>(                                                                                                      | vu, consulti, J/G X .VO 0000, 1 USO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         | 5.83             | 6.7            |
| Bit in start vruss, Alb 3. plastic, 2 pace snap-on         C-2         400         120         L.F.         3.75         3.20         6.95         9.           000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                | +             | 800             | .010   | <b>.</b> * |                | 1.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27      |         |                  | 2.2            |
| $\frac{6.95}{4.23} = \frac{6.95}{4.23} = \frac{9}{4.23}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         | ·                | <sup></sup> `` |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                | C2            |                 |        | L.F.       |                | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         | 6.95             | . 9.20         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IΓ            |                 |        | T          | Ēľ             | 2.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.13    |         | Aux              | 5.6            |

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JOHN B. STAMBERG - CSXT DOCKET NO. 031033 SET the Reference Section for critical supporting data - Reference Nos.. Grews. & City Cost Indexes PAGE 8 OF 12

# MAK-29-2004 MON 01:07 PM EVA

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FAX NO. 7032769541

P. 12

|              |                         |                                                                                |                |        |        |              |            |                   |                   |              | i                  |                | a sub-                                      |                        |
|--------------|-------------------------|--------------------------------------------------------------------------------|----------------|--------|--------|--------------|------------|-------------------|-------------------|--------------|--------------------|----------------|---------------------------------------------|------------------------|
| 024          | 2   Ear                 | thwork                                                                         |                |        | ,      |              |            |                   |                   |              |                    |                | 02                                          | ¥.                     |
| 02           | 2 200                   | Excav./Backfill/Compact.                                                       | 1004           | DALLY  | LABOR- | UNIT         | NIAT.      | 1993 BAA<br>LABOR | e costs<br>Equip. | TOTAL        | TOTAL<br>Incl. dap |                | 0                                           | 2                      |
| 2800         | Coulders and            | ky 1/2 C.Y., loaded on truck, no hauling                                       | 6100           | 80     | .150   | CY           | M641.      | 3.91              | 6.40              | 10.31        | 13                 | 234            | 238 4000                                    |                        |
| 2900         | Boulders, dr            |                                                                                | B47            | 100    | 240    | II.          | 1,60       | 5.75              | 6 20              | 13.55        | 117.50             |                | 4100                                        | •                      |
| 3100         |                         | operators with foreman compressor, ar lools                                    | 89             | í ī    | 40     | Day          |            | 875               | 180               | 1,055        | 1,5/5              |                | 4200                                        | 1. /**                 |
| 3300         | Track that, to          | propressor, operator and foreman                                               | B47            | 1      | 24     |              |            | 575               | 620               | 1,195        | 1,5/5              |                | 4250                                        | •                      |
| 3500         | Blasting, cap           |                                                                                | ·              |        | 1      | Ea.          | 3 "-       |                   | · ·               | <u> </u>     | 3.30               | ł 🕚            | 4400                                        |                        |
| 3900         |                         | s, cent, for first day                                                         |                | l      | 1      |              | 90         |                   |                   | 90           | 93                 |                | 4450                                        | 3                      |
| 4000         | 'er add                 |                                                                                |                |        | [      |              | 30         |                   |                   | 30           | - ji               | [ <sup>;</sup> | BOOK                                        | ő –                    |
| 4201         |                         | ny for 6 ruom house, individual lat, normnum                                   | <u>A6</u>      | 2 40   | 6.667  |              |            | 171               |                   | 17)          | 260                |                |                                             |                        |
| 4300         |                         | konna                                                                          |                | 1.35   | 11 852 |              |            | 305               |                   | 305          | 460                |                | 242 001                                     |                        |
| 4500<br>4600 |                         | k within zone of influence, nammun                                             | - <u>^8</u>    | 25,200 |        | S.F.         |            | 03                |                   | .03          | .05                |                | 200                                         | 10                     |
|              |                         |                                                                                | J              | 15,100 | 4      |              |            | .05               |                   | 05           | .08                |                | ; 202                                       |                        |
| 5000<br>5020 |                         | I load booklers, instition 0.5 C.Y.                                            | 101-8          | 80     | .150   | <u>C.Y.</u>  | <u> </u>   | 3.91              | 5,65              | 9.56         | 12.20              | · ۱            | 204                                         |                        |
| 5200         |                         | 0 5 C.Y. to 1 C.Y.<br>I load blusted rack, 3 C.Y. power shovel                 | 8100           |        | .120   |              |            | 3 13              | 9 25              | 12.38        | 15                 |                | 220                                         |                        |
| 3400         |                         | 5. 25 Ton off the liway drimp, 1 mile round trip                               | 8-121<br>8-34E |        | .010   | ┠┽╴          | h          |                   | <u>80</u>         | 1.08         | 1.30               | 1              | 222                                         |                        |
| 1420         | e normal satisfielder a | 2 role round tro                                                               | 0-34E          | 275    | .029   |              | {          | 54<br>64          | 2.12<br>2.54      | 2.66<br>318  | 3.15<br>3.78       | ł              | 224                                         | 1                      |
| 5140         |                         | 3 mile round trip                                                              |                | 225    | .036   | ┠╌┼╍         | <u> </u>   |                   |                   | 3.90         | 4.62               | Į –            | 240                                         | 20                     |
| 460          |                         | 4 mile round trip                                                              | 11             | 200    | .040   |              | 1          | .88               | 3,50              | 4.38         | 520                | l              |                                             | 4G                     |
| x600         | Bary bookles            | s an sile, less than 0.5 C.Y. 300 H.P dozer                                    |                | † ·    |        | <u> -~</u> _ | ╆━・・━━━    |                   |                   |              | ·                  | [              |                                             | 000                    |
| 1.20         |                         | 150' hand                                                                      | BIOM           | 310    | .039   | C.Y.         | 1          | 1.01              | 3.65              | 4.66         | 5.55               | 1              | 1                                           | 320                    |
| 640          |                         | 300' hauf                                                                      |                | 210    | .057   |              | f • /      | 1.49              | 5.40              | 6.89         | 8.20               |                |                                             | 040                    |
| 800          | 0.5 to 1                | C.Y., 300 H.P. du/er, 150' haul                                                |                | 300    | .040   |              | {          | 1.01              | 311               | 4 81         | 5,75               | 1              | ? i                                         | 200                    |
| 870          |                         | 300' h.ot                                                                      | _  <i>*</i>    | 200    | .000   | <b>-</b> +-  | 1          | 156               | 5.65              | 7 21         | 8,ti0              | j .            |                                             | 220                    |
|              |                         |                                                                                |                |        |        |              |            |                   |                   |              |                    | ł              |                                             | 240                    |
|              |                         | NULK BANK MEASURE Common earth piled                                           | 2              |        | [      |              |            |                   |                   |              |                    | 238            | ž                                           | 300                    |
| 320<br>350   |                         | ing aula trucks, add                                                           | ≌]]            | ·l     |        | L            | ļ,         |                   |                   | 15%          | 15%                | ļ              |                                             | 320                    |
| 1            |                         | enn und demobilization, see division 022-274                                   | ell            |        | ]      | 1            |            | Į                 |                   |              |                    |                | `                                           | 3340                   |
| 100          |                         |                                                                                |                |        | 1      |              | <u> </u>   |                   |                   |              |                    | l              |                                             | 4000                   |
| 50           |                         | Hralike, cr.Nykr mld., 1 C.Y. cap = 75 C.Y./hr.<br>/2 C.Y. cip. = 100 C.Y./hr. | B 12A          |        | .027   | C.Y.         | 1          | .71               | .91               | 1.62         | 2.08               | l              | · 4                                         | 4020                   |
| - 50<br>60   |                         | Y. cap. = 130 C.Y.Av.                                                          | B128           |        | .020   | ╏┈┼─         | <u> </u>   | 53                | <u>.89</u><br>98  | 1 42         |                    | ĸ              | 4                                           | 4040                   |
| 00           |                         |                                                                                | -) B120        | 1 .    | l      |              |            | A1<br>41          | r                 | 1.39         | $\Box$             | Ł.             |                                             | 4200                   |
| iö           |                         | Maniked, 1/2 C.Y. cop. = 30 C.Y.Ar.                                            | BIZE           |        | .067   | ┠╾┽┈         | ·          |                   | 1.68              | 201          | 236                | 1              |                                             | 4220                   |
| 60           |                         | C.Y. cap. = 45 C.Y./hr.                                                        | B12F           |        | .044   |              | ł          | )                 | 1                 | 3.18         | 4,25               | 1              | 1                                           |                        |
| 30           |                         | /2 C.Y. cap. → ?0 C.Y.Au.                                                      | 8120           |        | .100   | <b>{</b> - - | <u> </u>   | 2.67              | 1 25              | 7.44<br>5.93 | 3.18               | ł              |                                             | 4400                   |
| 50           |                         | $Y_{\rm cop} = 35 \text{ C.Y./hr.}$                                            | B121           | 1      | .057   |              |            | 1.53              | 2.05              | 5.93<br>3.58 | 4.57               |                | 1                                           | 9420<br>  <b>444</b> 0 |
| 50           |                         | 2 C.Y. Gop 30 C.Y.Av.                                                          | B12            | 240    | 067    | ┨╼┾═         | +          | 1.78              | 219               | 3.97         | 5.10               |                |                                             | 50C                    |
| x            |                         | . cap. = 35 C.Y.Ar.                                                            |                | 280    | .057   |              |            | 1.53              | 1.88              | 34)          | 438                |                |                                             | 502.                   |
| a,           | 11/20                   | X. (AD. > 65 C.Y.Av.                                                           | B12P           |        | .031   |              | ·)·        |                   | 1 45              | 2,27         | 2.84               | ł              |                                             | 5040                   |
| 0            |                         | ao = 112 C.Y.As.                                                               | B-12V          | 900    | .018   |              |            | .47               | 1.12              | 1.59         | 1.95               | ł              |                                             | 5204                   |
| Õ            |                         | ader, track mad., 1 1/2 C.Y cap. = 70 C.Y.Av.                                  | B-ION          | 560    | 021    |              | <b> </b> ' | .56               | 63                | - i 1 19     | 155                | 1 /            | , .                                         | 5220                   |
| 0            |                         | /2 C Y, cap. = 95 C Y/Ir.                                                      | B-100          |        | .016   |              | {          | .41               | 67                | 1 08         | 1.37               | }              |                                             | 524                    |
| 0            |                         | .У. сар. = 130 С.У/ш.                                                          | 8100           | 1      |        | $\square^-$  | Ţ          | .30               | .8)               | 1.13         | 1.38               | 1              | •                                           | 540                    |
| 9            |                         | Y. cap. ± 160 C.Y.Aw                                                           | B100           |        |        |              |            | 24                |                   | 113          | 1.36               | ū              | Ď                                           | 542                    |
| 김            |                         | nonmired, 3/4 C.Y. Cop 45 C.Y.Avr.                                             | BIOR           | 1      | .033   |              |            | .87               | .68               | 1 55         | 202                |                | L H<br>A X                                  | 544                    |
| 4-           |                         | /? C.Y. cap. = 80 C.Y./ts.<br>/4 C.Y. cap. = 100 C.Y./ts.                      |                |        | .019   | ┨            | <b></b>    | <u></u>           | .50               | .59          | 1.30               | ្រៃដ           | CSXT                                        | 550                    |
| 1            |                         | ча с., т. сар. на цео с. тула.<br>. У. с. р. на Цео С. тула.                   | 8101           | 1      | .015   |              | 1          | .39               | 56                | .95          | 1 22               | <b>↓</b> `     |                                             | 55)                    |
| *            |                         | .Y. Cap 185 C YAR,                                                             | 8100           | 1,120  | 011    | ┢┼╴          |            |                   | 40                | .68          | .8/                | ł              | 33.                                         | 552<br>553             |
|              |                         | cavalor, buck add, 1/2 C.X 30 C.Y./hr.                                         | B123           | 3      | .005   |              | 1          | .21<br>1.78       | .63<br>2.65       | .64<br>.ca a | 1.01               | 1              | NO. 031033<br>OF 12                         |                        |
| オ            | 48 inch                 | Burket, I.C.Y 45 C.Y./hr.                                                      | B12K           |        | .014   | ┟┼╸          |            | 1.19              | 2.24              | 4.43         | 5.65               | Į              | N 09                                        | 55<br>55               |
|              |                         | C.Y. cup-waty - 55 C.Y. /hr.                                                   | 812            |        | .0.36  |              | 1          | .19               | 1.20              | 2.17         | 1.27               | (              |                                             | 55.<br>55              |
| r            | 3/10.9                  | Capacity = 65 C.Y.A.                                                           |                |        | .024   | 1+           | · [        |                   |                   | 1.50         | 1,92               | >              | A N O H                                     | 55                     |
|              | 1 C.Y. c                | apauly = 120 C.Y.Aw.                                                           | B-12N          | 1      | .017   |              | 1          | .45               | 66                | 1.11         | 1.52               |                | <br>มีค.ย. ด                                | 55                     |
|              |                         | Y, capacity = 160 C.Y./hr.                                                     | B120           | 1,280  | 1.013  | 17           |            |                   | .68               | ··i 01       | 1.25               |                | EXHIBUT<br>FOCKET 1<br>POCKET 1<br>PAGE 9 ( | 60                     |
|              |                         | ap 250 C.Y.Ar.                                                                 | <b>↓</b> B 121 | 2,000  | 800.   |              |            |                   |                   |              |                    |                |                                             |                        |

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FAX NO. 7032769541

P. 13

| -        | 1 610 Sheet Piling                                                          | DALLY LABOR 1999 BARE COSTS |              |          |          |            | TOTAL        |          |             |               |          |              |
|----------|-----------------------------------------------------------------------------|-----------------------------|--------------|----------|----------|------------|--------------|----------|-------------|---------------|----------|--------------|
| 02       | 1 610   Sheet Piling                                                        | a                           | ew           | ÓUTPÜŤ   |          | UN         | πĒ           | NAT.     | LABOR       | EQUIP.        | TOTAL    | INCL, DEP    |
| 010      | SHEET PILING Stoel, not incl. wales, 22 psf, 15' excav., tell in place      | Ð                           | 40           | 10.81    | 5.920    | To         | a            | 795      | 163         | 1,78          | 1,136    | 1,350        |
| 100      | Drive, extract & sulvage                                                    |                             |              | 6        | 10.567   |            |              | 211      | 294         | 320           | 825      | 1,075        |
| 100      | 20' deep excavation, 27 pst, left in place                                  | 51                          | ┢            | 12.95    | 4.942    | 1.         | •=-          | 795      | 136         | 149           | 1,080    | 1,275        |
| M00      | 20 deep excavanon, 27 psi, ier in piace Roz<br>Drive, extract & salvage -61 | 311                         |              | 6.55     | 9.771    |            |              | 211      | 270         | 294           | 175      | 1,000        |
| XÌD      | OEt done dues allos 39 ant job a stress                                     | 31-                         | -            | 19       | 3.368    |            | ** 1         | 795      | 93          | 101           | 989      | 1,150        |
| 700      | 25° deep exclusion, 50 psi, ket in place Roz<br>Dakin, extract & salvage    |                             | ł            | 10.50    | 6.095    |            |              | 211      | 168         | 183           | 562      | 710          |
| 1        | 40' deep excavation, 38 psf, left in place                                  | 뛰                           | ┢            | h        | 3019     |            | ╺╌╌┝╸        | 795      | 83.50       | 90,50         |          |              |
| 0000     |                                                                             | 11                          |              | 21.20    | 1        | 1          |              | 211      | 144         |               | 969      | (1,102)      |
| 000      | Drive, extract & salvage                                                    | _                           | ┫            | 12.25    | 5.224    | -1         | <u>.</u>     |          |             | 157           | <u> </u> | 645          |
| 200      | 15' disp excavation, 22 psl. left in place                                  |                             |              | 983      | .065     | Ŝ.         | r.           | 9.25     | 180         | 1.96          | 13.01    | 15 3(        |
| 300      | Drivu, extract & salvage                                                    | - !   _                     |              | 656      | .098     |            |              | 2.37     | 2.69        | 2.90          | 7.99     | 10.3         |
| 500      | 20' dwp excavalion, 27 pst, left in place                                   | 11                          | 1            | 960      | .067     |            |              | 11.60    | 1.84        | 2             | 15.44    | 18.0         |
| 600      | Drive, Extract & salvage                                                    |                             | 1_           | 640      | .100     |            |              | 308      | 2.76        | 3.01          | 8,95     | 11.2         |
| išuo I   | 25' drep excavation, 36 psf, luft in place                                  |                             | Τ-           | 1,000    | .064     |            |              | 1710     | 1.77        | 1.92          | 20 79    | 24           |
| 1900     | Drive, extract & salvage                                                    |                             | Ł            | 670      | .096     |            |              | 4,22     | 2.64        | 2.87          | 9.73     | 12.1         |
| 2100     | Real Steal sheet pikes and wales, fust month                                |                             |              |          |          | 17         | on           | 230      | t           |               | 230      | 253          |
| 200      | Per added month                                                             |                             |              | (        |          | l          |              | 23       |             | Í             | 23       | 25 5         |
| 2100     | Rentil plug left in place, add to rental                                    | ~ <b>  </b> -               |              | 1        | 1        | 1          |              | 450      |             |               | 450      | 495          |
| 2500     | Wales, connecturas & studs, 2/3 salvage                                     |                             |              | 1        | .        |            |              | 173      |             |               | 173      | 190          |
| 2700     | Theh strongth piling, 50,000 psi, and                                       | -11-                        |              | <b>†</b> |          | 1          |              | 60       |             |               | 60       | 66           |
| 2800     | 55,000 psi, add                                                             |                             |              | [        |          | Į.         | 1 1          | 65       |             |               | 65       | 71.5         |
| 3000     | Lie rod, not upset, 1-1/2" to 4" diameter with tumbuckle                    | -11-                        |              |          |          | -          | •••          | 1,200    |             |               | 1,200    | 1,325        |
| 3100     | No turnbuckle                                                               |                             |              |          |          |            | ļĮ           | 1,000    |             |               | 1,000    | 1,100        |
| 3.100    | Upset, 1 3/4" to 4" diameter with turnbuckle                                |                             |              |          |          | ┢          | <b> </b> −-} | 1,500    |             |               | 1,500    | 1,650        |
| 3400     | No turbuckic                                                                | - 11                        |              | ļ        |          |            |              | 1,300    |             |               | 1,300    | 1,475        |
| 3600     | Lightweight, 18" to 28" wide, 7 ga., 9.22 pst, and                          | {                           |              | ╁───     | ┨        | <u> </u>   |              | 1,000    |             |               | 1,000    | 414(5        |
| 3610     | 9 ga., 8.6 psf, núúnun                                                      |                             |              |          | 1        | Ι.         | b.           | .50      |             |               | .50      |              |
| 3700     | Average                                                                     |                             |              |          |          | <b>-</b> ' | <u> </u>     |          |             | ·             | .50      | .5           |
| 3750     | Maxonun                                                                     |                             |              |          |          |            |              |          |             |               |          |              |
| 3900     |                                                                             |                             |              |          | <u> </u> | <u> </u>   | ¥            | .62      |             |               | .62      | .6           |
|          | Wood, solid sheeting, nicl. wales, braces and spacers,                      | - 11 .                      | - 41         |          |          | Ι.         | }            | 1.58     |             |               |          |              |
| 3910     | drive, extract & salvage, 8' deep excavation                                | ~#                          | B-31         | 330      | .121     | Ŀ          | S.F.         | 1.52     | 2.79        | .46           | 4.77     | 6.5          |
| 4000     | 10' drep, 50 \$ F./hr. in & 150 \$.F./hr. out                               |                             |              | 300      | .133     |            |              | 1.56     | 3.07        | .5)           | 5.14     | 7.1          |
| 4100     | 1?' drep, 45 \$.F./hr. in & 135 S.F./hr. out                                | ][.                         |              | 270      | .148     |            | $\square$    | 1,61     | 3.41        | .56           | 5 58     | 7.7          |
| 4200     | 14' duep, 17 S.F./hr in & 126 S.F./hr, out                                  |                             |              | 250      | .160     |            |              | 1 66     | 3.68        | .61           | 5.95     | 8.3          |
| 4300)    | 16' deep, 40 S.F./hr. in & 120 S.F./hr. oul                                 |                             |              | 240      | .167     |            |              | 1.71     | 3.84        | .61           | 6 19     | 8.6          |
| 4400     | 187 deep, 38 S F./hr. in & 114 S.F./hr. out                                 |                             |              | 230      | .174     | 1          |              | 1.76     | 4           | .65           | G.42     | 8.9          |
| 4500     | 20' deep, 35 S.F./hr. in & 105 S.F./hr. out                                 |                             | · [          | 210      | .190     |            |              | 1.82     | 4.38        | 73            | 6.93     | 9.7          |
| 4520     | Left in place, B' deep, 55 S.F /hr                                          |                             |              | 440      | .091     | T          |              | 2.73     | 2.09        | .35           | 5.17     | 6.7          |
| 4540     | 10° deep, 50 S.F.Av                                                         | - [].                       |              | 400      | .100     |            |              | 2 68     | 2.30        | .38           | 5.56     | 73           |
| 4560     | 12' dcep, 45 S.F.Air.                                                       | -11-                        | 1-           | 350      | 111      | 1          | 1-           | 304      | 2 56        | A2            | 6.02     | 7.1          |
| 4565     | 14° deep, 42 S F. Au.                                                       | - 11                        |              | 335      | .119     | ł          |              | 3.22     | 2.75        | .45           | 6.42     | 8.           |
| 4570     | 16' doep, 40 S.F./hr.                                                       | ~††                         | ╈            | 320      | .125     |            |              | 342      | 2.88        | .48           | 6 78     |              |
| 4580     |                                                                             |                             | 1            | 305      | 1.131    |            |              | 3.65     | 3 02        | .50           | 1        |              |
| 4590     |                                                                             | -#                          | +            | 280      | .143     |            |              | 3.91     | 3 29        |               | 7.74     | <b>.</b> .   |
| 4700     |                                                                             |                             |              | 1.76     |          |            | BF.          | 615      | 525         | 86.50         | 1,226.50 | 1            |
| 4800     |                                                                             | •[]                         | ∽ <u></u> [∙ | 1.32     |          |            |              | 545      | 700         | 115           | 1,360    | 1,825        |
| 5000)    |                                                                             | - #                         | Y            |          |          |            |              |          | ,           |               | 11000    | .,           |
| 5010     | Sed division 063-102                                                        | -11                         | نك الدي      | • [      | +        | -1-        | 1-           |          |             | 5 - M 5-117-4 |          | 118 C 11     |
|          | ,                                                                           | <b></b>                     |              |          |          |            |              |          |             |               |          | ·            |
| -        |                                                                             |                             |              |          | -        | -          |              | <u> </u> |             |               | ┼───     | <del> </del> |
|          | 21 620 Cribbing & Walers                                                    |                             |              | 1        | 1        |            |              |          |             | 1             |          | Į            |
| 0010     | SOLDIER BEAMS & LAGGING II sules with 3" wood sheeting                      | -1                          |              | 1        |          | t          |              |          |             |               | 1        | <u> </u>     |
| 7020     |                                                                             |                             |              |          |          |            |              | 1        | 1           | 1.            | 10 · · · | I .          |
| 0100     |                                                                             |                             | <b>B</b> 50  | 545      | .206     | 7          | S.F.         | 6.45     | 5.40        | 2.74          | 14.59    | 19           |
| 0200     |                                                                             |                             |              | 495      | .226     |            | 1            | 7.15     | 5.95        | 1             | 1        | . 21         |
| 0400     |                                                                             |                             | -+           | 360      |          |            | +-           | 7.60     | 8.20        | •             | 1994     |              |
| 0500     |                                                                             |                             | 1            | 330      | 1        |            | Ţ            | 8.60     | 1           |               | 1        |              |
| <b>h</b> |                                                                             | 1                           |              |          |          |            | ¥            |          |             |               |          |              |
|          | •                                                                           |                             |              |          |          |            |              | BIT NO.  |             | (JBS-         | •        |              |
|          |                                                                             |                             |              |          |          |            | OHN          | B. STA   | MBERG       | - CSXT        | •        |              |
|          |                                                                             |                             |              |          |          | _          |              | ET NO.   | A A 4 4 4 4 |               |          |              |

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P. <u>14</u>

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| T            | Å              | . W             | 400                       | 1             | Dewatoring                                             |                                       | Γ            |       | DNILY        | LABOR           |             |                                        | 1999 BAR                                | E COSTS |                | TOTAL                                 | T  |
|--------------|----------------|-----------------|---------------------------|---------------|--------------------------------------------------------|---------------------------------------|--------------|-------|--------------|-----------------|-------------|----------------------------------------|-----------------------------------------|---------|----------------|---------------------------------------|----|
| 1            |                | <br>            |                           |               |                                                        |                                       | C            | ŒW_   | OVTPUT       | HOURS           | UNIT        | MAT,                                   | LABOR                                   | EQUIP.  | TOTAL          | INCL OLP                              | 1  |
|              | 2000           | 1               |                           |               | ie, contiguted, 14 ga.                                 | R021<br>-440                          | F            | 16    | 40           | .600            | LE          | 21 50                                  | 141                                     | 5.45    | 40.95          | 52                                    | 14 |
|              | 2200           | :<br>           |                           |               | , up to 4' x 4', add                                   | -440                                  |              | Ł     | 300          | .080            | SFCA        | 3                                      | 1.47                                    | .73     | 5.60           | 7                                     | ł  |
|              | 0950           |                 |                           |               | A for wellpoints                                       |                                       | Ţ            |       |              |                 |             |                                        |                                         |         |                | * <u></u>                             |    |
| ł            | 9960           |                 |                           |               | the for deep well systems                              |                                       | L            | _ 164 | L            | <u> </u>        |             | ·                                      | · ·                                     |         | •              |                                       | ł  |
| ł            | 9070           | 2               | Re div. [                 | 52 AL         | 10 for plinnis                                         |                                       | 1            |       |              | }               |             |                                        | ]                                       |         |                |                                       |    |
|              | , 02           |                 | 440                       | ]             | Wellpoints                                             |                                       | ╀            |       |              |                 |             |                                        |                                         |         |                |                                       | ╀  |
|              |                |                 |                           |               | veliptimit equipment rental, see div, 01649            | 0 R021<br>-440                        | $\mathbf{f}$ | -     |              | ┠╍┥             |             |                                        |                                         |         |                |                                       | 4  |
|              | 0100           | <u>  k</u>      |                           |               | removal of single stage system                         | -440                                  |              |       |              |                 |             |                                        | {                                       |         |                |                                       | Ł  |
|              | 6110]          | 1               |                           |               | .75 lobor hours per L.F., minimum                      |                                       | [1]          | Class | 10.70        | .748            | 1Fikt       |                                        | 16.05                                   |         | 16.05          | 25                                    | 1  |
|              | 0200           |                 |                           |               | orhours per L.F., maximum                              |                                       |              |       | 4            | 2               | •           |                                        | 43                                      |         | 43             | 67.50                                 |    |
|              | 0400           | F               |                           |               | , 106 hr. shuits                                       |                                       |              |       |              |                 |             |                                        |                                         | ··      | ·              |                                       |    |
|              | 0410           | <u>.</u>        | Per 24                    |               |                                                        |                                       | 4            | Eqit  | 1.27         | 25,197          | Day         |                                        | 685                                     |         | 685            | 1,050                                 | ]  |
|              | 0500           | :               |                           |               | w week, 160 hr. straight, 8 hr. double for             | ie (                                  |              |       | ,18          | 177             | Week        |                                        | 4,875                                   |         | 4,825          | 7,350                                 | 1  |
|              | 0550           | -               |                           |               | ek month<br>atton, operation, equipment reatal, fuct & |                                       |              |       | .04          | 800             | Morith      |                                        | 21,600                                  |         | 21,800         | 33,100                                |    |
| - 2          | 0610           |                 |                           |               | system will 2" wellpoints 5' O.C.                      |                                       | l            |       |              | [ i             |             |                                        | 1                                       |         |                |                                       | 7  |
| ł            | 070            |                 |                           |               | wader, 6" diameter, first month                        |                                       | 1.           | -12   |              | ا <u>محمد</u> ا |             |                                        | · • · · · · · · · · · · · · · · · · · · |         |                |                                       |    |
| - 1          | 0600           | 1               |                           |               | icacici, o' diameter, nist monin<br>fleir, per month   |                                       | ľ            | Ealt  | 3.23         | Į (             | l F Hor     | 100                                    | 269                                     | 1       | 369            | 520                                   | 1  |
|              | 1000           |                 |                           |               | loader, 8' dismeter, first month                       |                                       | 4            | Ш     | 4.13         | 7.748           | ╏╌╎╼┥       | 80                                     | 211                                     |         | 291            | 410                                   | Ì  |
| - 4          | 1100           | •               |                           |               | loader, o conneres, was monan<br>Awr, per month        |                                       |              |       | 6<br>8.39    | 5.333<br>3.814  |             | 100                                    | 145                                     | 1       | 245            | 330                                   |    |
|              | 1300           | · .             |                           |               | eoder, 8" diameter, first month                        |                                       |              | -     | 8.59<br>1063 | 3.010           | <b> </b>    | 45                                     |                                         |         | 149            | 208                                   | ]  |
| - 1          | 1400           | ١               |                           |               | fler, per month                                        |                                       | 1            |       |              |                 |             | 35                                     | 82.                                     | }       | 117            | (163)                                 |    |
|              | 1600           | <br>!           |                           |               | header, 10" diameter, first month                      |                                       | ╉╌           | ┼╌┥   | 20.91        | 1 530           | ┝╍╎╍┥       | 25                                     | 41.50                                   |         | 65.50          | 9)                                    | 1. |
|              | 1700           |                 |                           |               | fur, per month                                         |                                       | I            |       | 41.62        | .765            |             | 30                                     | 75                                      | }       | 105            | 147                                   | 1  |
|              | 1500           | ι L             |                           |               | wes include punping 168 hrs. per week                  |                                       | ╉╴           |       |              |                 | ·¥          | 15                                     |                                         |         |                | 48                                    |    |
|              | 1910)          |                 |                           |               | the pump operator and one standby pur                  | n. [                                  | !            |       |              |                 |             |                                        | 1                                       |         |                | •                                     | Ì  |
| t            | _              | <br>            |                           | 1             |                                                        | <u>rv</u> 1                           | 4-           |       |              |                 | ┞╌╼┥        |                                        |                                         |         |                |                                       |    |
| ļ            |                |                 | 480                       | 1             | Relief Wells                                           |                                       |              |       |              |                 |             |                                        |                                         |         |                |                                       | ł  |
|              |                | NELL            |                           |               | ing 10' to 20' deep, 2' diameter                       |                                       |              |       |              |                 |             |                                        |                                         |         |                |                                       | 4  |
|              | 0020)<br>0070) |                 |                           |               | asing, minimum                                         |                                       | L            | 36    | 165          | .145            | VLF.        | 2                                      | 3.40                                    | 1.33    | 6.73           | 8.95                                  |    |
|              |                |                 |                           | uag           |                                                        |                                       |              |       | 98           | .245            |             | 4                                      | 5.70                                    | 2.23    | 11.91          | 15.75                                 |    |
|              | 0100           | <sup>;</sup> ;; | 14                        | ixim<br>A     |                                                        | 7.22                                  | 1            |       | 49           | .490            |             | 10                                     | 11,45                                   | 4.47    | 25.92          | ( 33.50                               |    |
| 11           | 0500           |                 |                           |               | lematering, see division 016 420-4100 to               | 4400                                  | I            |       |              |                 |             |                                        | -                                       |         |                | <del>المرور ( </del>                  | ٦  |
| ╉            | سيشيعه         | -               | <b>520</b>                |               | uter wells, see dwision 026-704                        | +                                     | ╀            |       |              |                 |             |                                        | <u> </u>                                |         |                |                                       | ┦  |
| ╉            |                |                 |                           | a<br>gur l    | adding, with tomer, no salvage allowance               |                                       | ╞            | 51    | 2.20         | 21.818          | uar         |                                        |                                         |         |                |                                       |    |
| ļ            | 1000           |                 |                           |               | ew jacks, per box and pick                             |                                       | 1            | -     |              | 13.333          |             | 645<br>40                              | 475                                     | 78      | 1,198          | 1,550                                 | 5  |
|              | 1100           |                 |                           |               | Es in walls, see div. 020-704                          |                                       | 1-           | -     | -n           |                 |             | ······································ | . <u>291</u>                            | 47.50   | 3/8.50         |                                       | 1  |
| +            |                |                 |                           |               |                                                        |                                       | ┞            | _     |              |                 |             |                                        |                                         |         |                | · · · · · · · · · · · · · · · · · · · | ļ  |
| ļ            |                |                 |                           |               | Underpinning                                           |                                       | L            |       | <br>         |                 |             |                                        |                                         |         |                |                                       |    |
|              | 0020           | -: *: *i<br>((  | ⇒ห ทพพท∩<br>สุ(เติ่แ!. เค | sa ri<br>Kika | concerto including excavation,                         |                                       |              |       |              |                 |             |                                        | Ī                                       |         |                |                                       | 5  |
|              | ōiōi( ·        |                 |                           |               | elow grude, 100 to 500 C.Y.                            |                                       | ┨╦           | 52    | 2 30         | 21,348          | <u>C.Y.</u> | 168                                    | 615                                     | ·       | <u></u> -      | ·                                     |    |
|              | 0200           | 1               |                           |               | DO C.Y.                                                |                                       | ľ            | ĩ I   |              | 22.400          |             | 152                                    | 565                                     | 118     | 971            | 1,350                                 | ł  |
|              | (MĪOŪ [ ]      |                 | 16' 10                    | 25'           | below grude, 100 to 500 C.Y                            | ····                                  | ┟┈           | H     | 2            | 28              | ┝╌╂╌╢       |                                        | 705                                     | -173    | 890            | 1,250                                 | _  |
| - <b>L</b> - | (1500          | . 1             | Q                         | er 5          | 00 C.Y                                                 |                                       |              |       | -            | 26.667          |             | 175                                    | 670                                     | 206     | 1,106          | 1,550                                 | I  |
|              | ù/00[          | : ;             |                           |               | Inderin printe, 100 to 500 C.Y.                        |                                       | 1            | ┢┼╽   | 1.60         | 35              | ┝╼┼╼┤       | 202                                    | 880                                     | 270     | 1.051<br>1,352 | 1,475                                 |    |
|              | 0080           |                 | Ċ                         | er Si         | 00 C.Y.                                                |                                       | ١.           | Ļ     |              | 31 111          |             | 185                                    | 785                                     | 240     | 1,352          | 1,900                                 |    |
|              | 0000           |                 | પ્રાથમિક ક                |               |                                                        | • • • • • • • • • • • • • • • • • • • | †-`          | -     |              |                 | ┝╼┨╍╸┨      | 10%                                    | 40%                                     | · #     |                | 1,700                                 | ļ  |
| L            | 1000           | E.              | я 50 С.Y.                 | ωI            | OO C.Y., add                                           |                                       |              | -     |              |                 | 1           | 5%                                     | 20%                                     | 1       | 1              | • (                                   | ļ  |
|              | 1              |                 |                           |               |                                                        |                                       | <b>_</b>     |       | ·            |                 |             |                                        | f.                                      |         | l              |                                       | L  |
|              |                | 4 j             |                           |               |                                                        |                                       |              |       |              |                 |             | EXH                                    | IBIT N                                  | Ο.      | (.TRS          | -6) '                                 | 1  |

Important: See the Reference Soction for critical supporting data - Reference Nos., Crews, & City Cost Indexes

THE CO COUR HOR UTION LINE EAH

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FAX NU. (032/69541

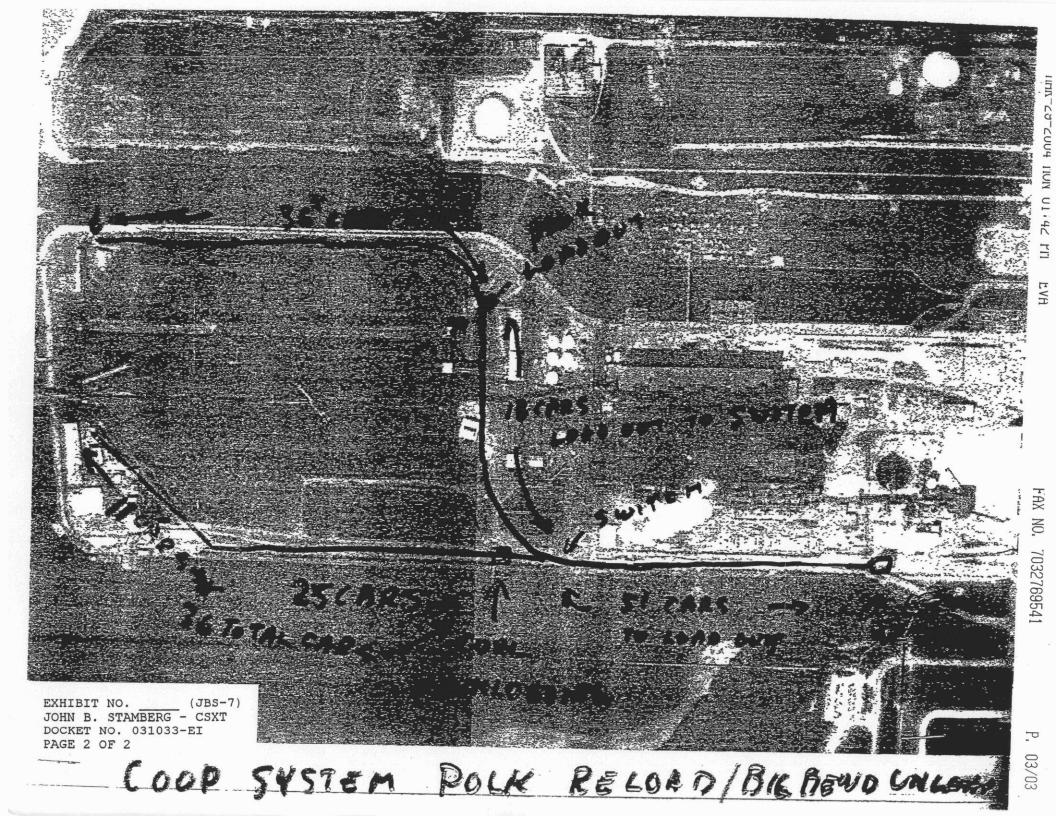
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| <b>A</b>     | 21 1/                                 | le           | tripping                                   |                                    |                | DALY                         | LABOR-      |             |              | 1999 BAR                        | E COSTS              |                | TOTAL          |
|--------------|---------------------------------------|--------------|--------------------------------------------|------------------------------------|----------------|------------------------------|-------------|-------------|--------------|---------------------------------|----------------------|----------------|----------------|
|              |                                       | -            |                                            |                                    | CREW           | OUTPUT                       | HOURS       | UNIT        | MAT.         | LABOR                           | EQUIP.               | TOTAL          | INCL. OLP      |
|              |                                       |              | nd stockpling, sandy loarn                 |                                    |                |                              |             |             |              | -                               |                      |                |                |
| 0020<br>0100 | 20010                                 | <b>UN1</b>   | eal conditions                             | la Vil (dale private in the second | B-108          | 2,300                        | .005        | C.Y.        |              | .14                             | .36                  | .50            |                |
|              |                                       |              | rse conditions                             |                                    |                | 1,150                        | .010        |             |              | :27                             | ./3                  | 1              | 1 1 2          |
| 0200         | l                                     |              | lozer, ideal conditions                    |                                    | 8-10M          | 3,000                        | .004        |             |              | 10                              | .38                  | .48            |                |
| 0300         |                                       | Adve         | rse conditions                             |                                    |                | 1,650                        | .007        | +           |              | .ii                             | .69                  | .88            | . 1            |
|              | 21 15                                 |              | Selective Clearing                         |                                    |                |                              |             |             |              |                                 | ••• -• -• -          |                |                |
|              | SELECTIVE                             |              |                                            |                                    |                |                              |             |             | · ·          |                                 |                      |                |                |
| 1000         | Sturne                                |              | site by hydrautic backhoe, 1-1/2 C.Y.      |                                    |                |                              |             |             |              |                                 |                      |                | :              |
| 1040         |                                       | 4" to 6" i   |                                            |                                    | 617            | 60                           | .533        | Fn          |              | 12.30                           | 9.70                 | 22             | 29.            |
| 1050         |                                       | 8" to 12"    |                                            |                                    | 830            | 33                           | .727        |             |              | 17.60                           | 48.50                | 66 10          | 80             |
| 1100         |                                       |              | " dumeter                                  |                                    |                | 25                           | .960        |             |              | 23                              | 64                   | 87             | 106            |
| 1150         | · · · · · · · · · · · · · · · · · · · |              | diameter                                   |                                    | •              | 16                           | 1.500       | +           |              | 36 50                           | 100                  | 136.50         | 166            |
| 2000         | 1                                     |              | lees, on site using chain saws and c       | hipper,                            |                |                              |             |             |              |                                 |                      |                |                |
| 2050         | nul                                   |              | ps, up to 6" diameter                      |                                    | 6.7            | 18                           | 2.667       | Ea          |              | 61                              | 65                   | 127            | 831            |
| 2100         |                                       | 8" to 12"    |                                            |                                    |                | 12                           | 4           |             |              | 97                              | <b>9</b> 9           | 191            | 252            |
| 2150<br>2200 |                                       |              | diameter                                   | NI W R                             | <b>!</b>       | 10                           | 4 800       |             |              | 110                             | 119                  | ?29            | 300            |
|              |                                       |              | diameter                                   | - * 1                              | +              | 8                            | 6           |             |              | 1.58                            | 148                  | 266            | 380            |
| 2300         | <u> </u>                              |              | 2 mile haul to dump, 12" diam. tree,       | 200                                |                |                              |             | ¥           | ·····        |                                 |                      | 150            | 225            |
|              | 21 200                                |              | One day move, up to 24' wide               |                                    |                |                              |             |             |              |                                 |                      |                |                |
| 0020         |                                       |              | klation, patch & hook-up, average mo       |                                    |                |                              |             | Total       |              |                                 |                      |                | 6 264          |
| 0040         |                                       |              | liame bidg., based on ground floor (       |                                    | 84             | 185                          | .259        | SF.         |              | or 3                            |                      |                | 8,700          |
| 0060         | 1                                     |              | , based on ground floor area               | hića.                              |                | 137                          | .350        | 3r.<br>     |              | 5.70                            | 2.57                 | 8.27           | 11             |
| n200         |                                       | 10 42' wi    |                                            |                                    |                | 131                          |             | <u> </u>    |              | 7.65                            | 3.47                 | 11.12          | 15             |
| 0220         |                                       |              | al day on road, add                        |                                    | 84             | 1                            | 48          | ▼<br>Day    |              | 1,050                           | 475                  | 1.676          |                |
| 0240         |                                       |              | servicut, move building, 1 day             |                                    |                | <u> </u>                     |             |             |              | 1,000                           |                      | 1,525          | <u>· 2,175</u> |
| 0300         |                                       |              | L hookup, based on ground floor area       | 3                                  | 83             | 155                          | .310        | S.F.        | 5 75         | 7.15                            | 11.30                | 24,20          | . 30           |
| Ò            | 21,40                                 | <u>,   (</u> | Dewatering                                 |                                    |                |                              |             |             |              |                                 |                      |                |                |
|              |                                       |              | te dramage trench, 2' vide, 2' deep        | R021<br>-440                       | BIIC           | 90                           | .178        | C.Y.        | ***          | 4.43                            | 2.43                 | 6.86           | 9.             |
| 0100         |                                       | Z' wide,     | 3' deep, with backline loader              |                                    | 7<br>191199444 | 135                          | .119        |             |              | 2.95                            | 1.62                 | 4.57           | 6              |
| 0700         | 1 12                                  | avale sun    | up pits by hand, light soil                |                                    | I Clab         | 7.10                         | 1.12/       |             |              | 24                              |                      | 24             | 38             |
| 0300<br>0500 |                                       | Heavy so     | p<br>ended 2 hrs. per day, including 20 L. |                                    |                | 3.50                         | 2.286       |             |              | 49                              |                      | 49             | 77             |
| 0990         |                                       |              |                                            | F.                                 | 1              |                              |             |             |              |                                 |                      |                |                |
| 0.00         |                                       |              | ze & 100 L.F. discharge hose               |                                    |                |                              |             |             | ·-··         |                                 |                      |                |                |
| 0620         | 1                                     | -            | per additional pump                        |                                    | BIOH           | 4                            | 3           | Day         |              | 78                              | 11.10                | 89.10          | 132            |
| 0020         | 1                                     |              | abu hound need for 8 hours                 |                                    | 010            | <u> </u>                     |             |             |              |                                 | 35                   |                | 40             |
| 0670         | •                                     |              | per additional pump                        |                                    | B-10           | 4                            | 3           |             |              | 78                              | 23.50                | 101.50         | 146            |
| 0800         | 1                                     |              | ed, 2* disphrägm pump                      |                                    | 8-10H          | }                            | 12          |             |              |                                 | 75                   | 75             | 85             |
| 0820         |                                       |              | per additional pump                        |                                    | 0101           | 1                            | 12          |             |              | 315                             | 44.50                | 350 50         | 5.10           |
| 0000         |                                       |              | ngal pump                                  |                                    | BIO            |                              | <u>ĭ</u> 2- |             |              |                                 | 35                   | 35             | 48             |
| 0920         |                                       |              | per additional pump                        |                                    | DIM            | <b>1</b>                     | 12          |             |              | 315                             | 58                   | 373            | 545            |
| 1000         |                                       |              | agin punip                                 |                                    | 810            | $\left  \frac{1}{1} \right $ | 12          | ┨╌┼─        |              | 315                             | 49.50                | 49.50          | 54             |
| 1620         |                                       |              | per additional pump                        |                                    | 510            | •                            | 12          |             |              | - 410                           | 94                   | 409            | 585            |
| 1100         | 1 4                                   |              | ugal pump                                  |                                    | B-10K          |                              | 12          |             | <u>_</u>     | 315                             | <u>- 65</u><br>- 220 | 85             | 720            |
| 1170         |                                       |              | per additional pump                        |                                    | 0.1011         | [ *                          |             |             |              | 200                             |                      | 535            |                |
| Ĩ XÔ         | <b>4</b>                              |              | tion 3' deep, 12" diameter                 |                                    | 86             | 115                          | .209        | L.          | 8.95         | 1 88                            | 110                  | 110            | . 125          |
| 1400         | 1 1                                   | 18" diam     |                                            |                                    | Ĩ              | 100                          | 240         |             | 0.55<br>9.95 |                                 | 1.90                 | 15,73          | 19             |
| 1600         |                                       |              | uction, incl. excavation and gravel, pit   |                                    | ╉┼╴            | 1,250                        | .019        | C.E.        | .56          | 5.60                            | 219                  | 17.74          | : 22           |
| 1700         | 4 . · · · ·                           |              | rel collar, 12" pipe, corrugated, 16 ga    |                                    |                | 70                           | .343        | LF.         | .56<br>1190  | 45                              |                      | 1,19           | ].             |
| 1800         |                                       |              | , corrugated, 16 ga.                       |                                    | ╋╾┿╼           | 55                           | .313        | ŀ-∔         | 11 90        | 8<br>10.20                      | 3.13                 | 23.03          | 29             |
| 1900         |                                       |              | conugated, 16 ga.                          | ł                                  |                | 50                           | .480        |             | 14 65        | 10.20                           | 3.98<br>4.38         | 28 83<br>28 58 | 36<br>37       |
|              | · · · · ·                             | _            |                                            | ·····                              |                |                              | <b></b>     | <b>μ_⊻_</b> |              | (JB\$-6                         | _                    | 20 QG          | <u>3/</u>      |
|              | •                                     |              |                                            |                                    |                | LXH.                         | LDT.L       | NO.         |              | $\alpha - \phi \alpha \alpha /$ | 1                    |                |                |

# Exhibit \_\_\_\_(JBS-7)

# Conceptual Diagram – EVA "Cooperative" Rail Delivery System

EXHIBIT NO. (JBS-7) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 2



# OVERVIEW OF RAIL DELIVERY OPTIONS TO BIG BEND

|                                       | CSX's<br>1.0-2.0<br>MMTpy | EVA<br>Adjustment | CSX*s<br>2.0-5.0<br>MMtpy | EVA<br>Adjustment | Potential<br>Cooperative<br>System<br>(New<br>Equipment) | Potential<br>Cooperative<br>System<br>(Gannon<br>Equipment) |
|---------------------------------------|---------------------------|-------------------|---------------------------|-------------------|----------------------------------------------------------|-------------------------------------------------------------|
| Estimated Cost                        | \$4,283,000               | N/C               | \$7,130,000               | \$8,163,825       | \$4,979,225                                              | \$3,641,866                                                 |
| CSX's Bid Estimate                    | \$4,500,000               | N/A               | \$7,100,000               | N/A               | N/A                                                      | N/A                                                         |
| CSX's Funding Limit                   | \$5,400,000               | N/C               | \$8,520,000               | \$8,520,000       | \$8,520,000                                              | \$8,520,000                                                 |
| Capacity                              | 1,500 TPH                 | 1,500 TPH         | 2,500 TPH                 | 2,500 TPH         | 2,500 TPH                                                | 3,200 TPH                                                   |
| Railcars Per Hour                     | 15                        | 15                | 25                        | 25                | 25                                                       | 32                                                          |
| Unloading Time With<br>Switching Time | 7.5 Hours                 | 7.5 Hours         | 5.1 Hours                 | 5.1 Hours         | 5.3 Hours                                                | 4.5 Hours                                                   |
| Construction Time                     | 10 Months                 | 10 Months         | 10 Months                 | 10 Months         | 10 Months                                                | 7 Months                                                    |
| If Pre-Engineering<br>Pre-Permitted   | 8 Months                  | 8 Months          | 8 Months                  | 8 Months          | 8 Months                                                 | 5 Months                                                    |
| Permit Modification<br>Needed.        | Yes                       | Yes               | Yes                       | Yes               | Yes                                                      | Yes                                                         |

EXHIBIT NO. (JBS-8) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 1

# CONFIDENTIAL

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\*\* REQUEST FOR POD



# Tampa Electric Company Big Bend and Polk Generating Stations

CSX Transportation Alternate Method of Coal Delivery

# SL-008160

September 18, 2003

| Prepared By:                  | P. Guletsky, S   | S. Madan, G. Bowater                                            |
|-------------------------------|------------------|-----------------------------------------------------------------|
| Reviewed By:                  | P. Guletsky      | Paul contract electricky                                        |
| Approved By:                  | <u>B. H. Yee</u> | B. H. EJU NO<br>PE 0042811                                      |
|                               |                  | TO * OT<br>EXHIBIT NO. (JBS-9)                                  |
| \\dms\tampaelectric\09476-019 | NSL-008160.doc   | STATE OF JOHN B. STAMBERG - CSXT<br>JORIDA JOCKET NO. 031033-EI |

CONFIDENTIAL



SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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SL-008160 Project No. 09476-019 September 18, 2003

### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### I. <u>Executive Summary</u>

Sargent & Lundy L.L.C. has reviewed the proposal issued to Tampa Electric by CSX Transportation for alternate method of coal delivery to the Big Bend and Polk Generating Stations. The proposal, dated August 11, 2003, offers conceptual design and cost information to bring coal to the stations by rail direct rather than by the traditional barge transport.

The purpose of the S&L review is to validate the capital cost for each option proposed, to provide operating cost estimates for each, and to provide assessment of assumptions made which qualify the bid. The Tampa Electric Fuels Strategy Group will use the results of the S&L analysis to evaluate this option against the other coal transportation bids received.

Although CSXT has done an admirable job in their conceptual plan, in some cases the concept provided would not be feasible in its proposed form. Where possible, we have made the necessary adjustments to the design and have provided costs for the adjusted plan. Specific examples include:

- The limestone unloading facility at Big Bend will not be used for unloading coal by rail.
- New track placement interferes with existing facilities in some areas. The track has been rerouted where necessary to accommodate existing operations.
- The conveyor belt sizing for the 2 -5.5 MM ton Big Bend Option is marginal. The estimate provided increases the belt width to 60 inches. A 60-inch conveyor is appropriate for the duty rating expected.

Each case is discussed more fully in the following section of the report.

The cost information provided with the proposal appears to be low in all cases. The costs provided appear to include material for new equipment only. Therefore, the installation cost and costs associated with modification to existing facilities need to be added. The capital cost estimate comparison for each scenario is as follows:

|                                        | CSXT Estimate | <u>S&amp;L Estimate</u> |
|----------------------------------------|---------------|-------------------------|
| Big Bend 2 to 5.5 Million Ton Build In | \$ 10,846,000 | \$50,525,000            |
| Big Bend 1 to 2 Million Ton Build In   | \$6,798,000   | \$32,233,000            |
| Polk Build In Shuttle Train Unload     | \$ 2,318,000  | \$15,418,000            |
| Polk Direct Delivery - Rotary Dump     | \$ 6,502,000  | \$41,059,000            |
| Polk Direct Delivery Bottom Dump       | \$ 4,520,000  | \$26,105,000            |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 3 OF 44



SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>#</sup> REQUEST FOR POD

The estimates provided in the rail delivery bids do not take into account the additional operating costs required at each station. Fixed operating cost increases will be required for most of the options included in the bid package because of the additional operating staff that will be required to manage the coal unloading and storage. Variable operating costs will also increase at each station as a result of the additional equipment. Increased electrical load and equipment maintenance costs make up the majority of the variable operating cost estimate.

|                                        | Yearly Estimated<br>Operating Cost |
|----------------------------------------|------------------------------------|
| Big Bend 2 to 5.5 Million Ton Build In | \$2.2MM to \$2.7MM                 |
| Big Bend 1 to 2 Million Ton Build In   | \$1.4MM to \$1.5 MM                |
| Polk Build In Shuttle Train Unload     | \$1.1 MM                           |
| Polk Direct Delivery - Rotary Dump     | \$1.3 MM                           |
| Polk Direct Delivery - Bottom Dump     | \$0.97 MM                          |

The proposal options offered by CSXT have identified the demurrage rate assumed in each case. In some instances, we believe that the rates provided are more aggressive than can be reasonably achieved. These discrepancies can either be used as a point of negotiation or as a probable cost to Tampa Electric. We have not included demurrage fees in the operating cost estimates but rather provide the data for your use and evaluation during your contract negotiations.

|                                        | Demurrage<br>Allowed in Bid | Estimated Unload<br>Time Required |
|----------------------------------------|-----------------------------|-----------------------------------|
| Big Bend 2 to 5.5 Million Ton Build In | 4 hour                      | 6 hour                            |
| Big Bend 1 to 2 Million Ton Build In   | 24 hour                     | 9 hour                            |
| Polk Build In Shuttle Train Unload     | N/A                         | 3 hour                            |
| Polk Direct Delivery - Rotary Dump     | N/A                         | 9 hour                            |
| Polk Direct Delivery - Bottom Dump     | N/A                         | 9 hour                            |

Environmental considerations that need to be addressed in the full evaluation of these coal transportation options include wetlands reconstruction, coal pile runoff, and noise abatement. These issues are discussed later in this report.

### II. <u>Bid Analysis</u>

A. Big Bend 2 to 5.5 Million Ton Build In

The conceptual design that is proposed for this option requires three alterations:

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- 1. The independent S&L estimate does not use the limestone unloading facility at Big Bend for coal unloading. An independent unloading facility has been priced with no addition of truck unloading of limestone. The reasons for this adjustment to the design include:
  - (a) The existing limestone unloading facility does not have adequate capacity for rapid discharge of coal. The maximum capacity of the existing system is approximately 800 T/hr of coal. Minor modification to the system (42" conveyor width and 45° idlers) would increase the capacity to 1200 T/hr which is still insufficient.
  - (b) Extensive modification of the existing limestone unloading station to accommodate rapid discharge coal unloading would be required. The feasibility of this approach needs to be studied in detail. Before this approach could be considered as a serious plan, forward analyses of the following issues would have to be performed:
    - A condition assessment of the existing facility.
    - A study of the structural design and subsequent integrity of the design once the concrete is cut for the 60" conveyor path.
    - A review of the pit length to determine design suitability with rail cars identified.
    - Modifications required due to safety and dusting issues associated with PRB coal.

For these reasons, it would not be prudent to assume that the existing limestone unloading facility can be used for coal for less capital than a new coal unloader with no new limestone truck unloading.

- 2. The 45 car rail spur identified in the proposal for use at the new railcar load- out which transfers coal to be sent to the Polk Station is located within the boundaries of the existing desalinization plant which is owned and operated by Tampa Bay Water. It is suggested that this rail spur be moved to the south side of the rail loading facility. This change has been incorporated into the estimate. It represents a minor cost impact.
- 3. CSXT proposal included 54" wide belt conveyors for unloading. The 54" wide conveyors would have to operate at a fairly high belt speed (~ 700 fpm) for handling the required capacity. At this high belt speed, we would expect a high potential of coal spillage and dusting problems; therefore, we would recommend 60" wide conveyor bolts for the new train unloading belts. The 60" wide conveyors would require a slower (580 gpm) belt speed for handling the required tonnage.

The capital cost estimate that is provided with this option appears to be quite low. As illustrated in the executive summary, we would expect the installed cost for this scope of work to be more than double the proposed amount. Although the basis of the

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estimate is not identified specifically, it would appear that the estimate provided by CSXT in the proposal represents the capital cost for the engineered equipment for coal transport only. Exhibits 2A-1 and 2A-2 are the respective CSXT and S&L cost estimates for Big Bend 2-5.5 MM Ton Rail Coal delivery option.

S&L has assumed that hooded conveyors will be acceptable and permitable for the new conveyors except the transfer conveyor that travels over the intake canal. The transfer conveyor is totally enclosed from the blending bin to the proposed transfer tower. Should environmental permitting require all of the conveyor to be totally enclosed, then the increase to the capital estimate will be approximately \$2,000,000.

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

- Fire Loop Extension
- Dust Suppression System
- Repair to Existing On-Site Track
- Modifications to Transfer House T2
- Demo/Reconstruct Storm Storage Area
- Re-Grading for Storm Water and Runoff
- Underground Utility Identification and Relocation
- Installation of Rail Bridge Over Water Lines on East Side of Property
- Conveyor Lighting
- Blending Bin Modifications
- Adjustments for High Water Table
- Adjustment for FL Building Code
- Transformers for Electrical Supply
- Double End Bus Substation
- PLC
- Electrical Interconnect
- J/C Interconnect
- Services Interconnect (Instrument Air, Service Air, Water)
- Environmental Permitting Evaluation
- Contractor G&A and Fcc
- Tampa Electric Overheads

The overhead costs include engineering oversight by the Owner's AE, construction oversight, and Tampa Electric internal project costs.

Operating cost considerations to be included in the overall bid evaluation are tabulated in Exhibit 2A-3. The combined fixed and variable operating costs for this option range from \$2,167,200 to \$2,697,500 per year depending on the quantity of coal handled.

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### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### B. Big Bend I to 2 Million Ton Build In

The conceptual design proposed by CSXT requires a new coal unloading station for coal as described above. We have made the same adjustment to this option as described in the 2 to 5.5 MM Ton Rail Delivery Option described above.

This option introduces some operating constraints that do not otherwise exist. This option provides a radial stacker to stack the coal and does not tie into the existing conveyor systems. This arrangement limits coal storage to one of the three existing coal storage bays. Coal pile management will therefore be more complicated and require more labor to maintain.

The capital cost estimate provided with the CSXT proposal is provided in Exhibit 2B-1. Again, the capital costs provided are low compared to the independent total installed cost estimate prepared as part of this evaluation. Exhibit 2B-2 provides the details of the independent estimate prepared by S&L.

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

- Underground Reclaim Hopper
- Bulldozer
- Fire Loop Extension
- Dust Suppression System
- Repair to Existing On-Site Track
- Demo/Reconstruct Storm Storage Area
- Re-Grading for Storm Water and Runoff
- Underground Utility Identification and Relocation
- Installation of Rail Bridge Over Water Lines on East Side of Property
- Conveyor Lighting
- Adjustments for High Water Table
- Adjustment for FL Building Code
- Transformers for Electrical Supply
- Double End Bus Substation
- PLC
- Electrical Interconnect
- I/C Interconnect
- Services Interconnect (Instrument Air, Service Air, Water)
- Environmental Permitting Evaluation
- Contractor G&A and Fee
- Tampa Electric Overheads

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



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# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

No modifications to the T2 transfer tower and blending bin are required for this option and we have assumed hooded conveyors are acceptable. The estimated increased cost for totally enclosed conveyors should they be required is \$1,250,000

Operating cost considerations to be included in the overall bid evaluation are tabulated in Exhibit 2B-3. The combined fixed and variable operating costs for this option range from \$1,411,000 to \$1,492,000 per year.

### C. Polk Build In Shuttle Train Unload

This design option provided in the CSXT proposal for the Polk Plant is the least expensive and the least intrusive to the current plant operations.

The independent, estimated total installed cost for this option is \$15,418,000 which is over six times higher than the capital cost identified in the CSXT proposal. Exhibit 2C-1 and Exhibit 2C-2 provide the details of the CSXT and S&L capital estimates respectively.

In addition to the new equipment and installation costs, S&L has included, in the independent estimate, costs for the following support tasks required to complete the scope of work.

- Underground Reclaim Hopper
- Bulldozer
- Fire Loop Extension
- Dust Suppression
- Repair to Existing On-Site Track
- Modifications to Existing Coal Silo
- Grading for Stormwater/Coal Runoff
- Underground Utility Identification and Relocation
- Wetlands Relocation
- Conveyor Lighting
- Adjustment for FL Building Code

• Adjustments for the High Water Table

- Transformers
- Double End Bus Substation
- I/O Blocks
- Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Contractor G&A and Fee
- Tampa Electric Overheads

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# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2C-3. The combined fixed and variable operating costs for this option are \$1,130,000 per year.

D. Polk Direct Delivery - Rotary Dump and Baltom Dump Scenarios

The conceptual design of this option proposed by CSXT introduces coal storage to the Polk station. The domed storage facility minimizes the environmental impact to the station. The loop track provides sufficient storage to prevent obstruction of other plant operations.

The proposal provided by CSXT includes two scenarios for this option. The first uses a rotary car dumper; the second is similar but uses a bottom dump rail car. We have included a car shaker with the bottom dump rail car estimate. The independent estimates prepared for this option are included as Exhibit 2D-1 and Exhibit 2D-2. The CSXT proposal estimate, again lower than the estimated installed costs prepared by S&L, is provided as Exhibit 2D-3.

Items included in the independent total installed cost, in addition to the new equipment, are:

- Underground Reclaim Hopper
- Bulldozer
- Fire Loop Extension
- Dust Suppression
- Repair to Existing On-Site Track
- Modifications to Existing Coal Silo
- Grading, Stormwater/Coal Runoff Modification
- Underground Utility Identification and Relocation
- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustment for High Water Table
- Transformers
- Double End Bus Substation
- I/O Blocks
- Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Wetland Relocation
- Contractor G&A and Fee
- Tampa Electric Overheads

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# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1" REQUEST FOR POD

Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2D-4. The combined fixed and variable operating costs for this option are \$1,349,000 per year for the rotary dumper and \$972,000 per year for the bottom dump rail car scenario.

### III. Assumptions

- No additional real estate purchase is required for track or relocation of facilities and wetlands.
- No track upgrade or repair is required outside of the plant real estate boundaries.
- Tampa Electric has no provisions for holding second train for CSX.
- Coal unloading is to be performed during day shifts only.
- Primary power for new equipment is available at each for the stations.
- No allowances or provisions have been included in the cost estimate for schedule constraints (labor overtimes, double shifts, accelerated shipment of equipment or commodities, etc.).
- Project contingency of 20% is required to mitigate the risk on costs due to the short evaluation period.
- The current barge unloading facility will remain operational at the Big Bend Station.
- The current truck transfer station will remain operational at the Big Bend Station.
- The current truck unloading facility will remain operational at the Polk Station.

IV.

### Issues for Further Consideration

Coal unloading by rail at the Big Bend Station will necessitate blocking Gate 32 for several periods of time during the day. For the 2-5.5 MM ton scenario; we estimate that approximately two trains a day will be received during the week. We would expect that for each train Gate 32 will be blocked about 15 minutes while the train is entering the site, 45 minutes during the unloading of each of the two 45 car segments, and another 15 minutes during the train re-assembly and exit from the plant. This equates to Gate 32 being blocked from access approximately 17% of the day.

For the 1-2 MM ton scenario at the Big Bend Station, we would anticipate Gate 32 to be blocked approximately 6-8% of the day. The Polk alternative appears to have minimal impact on current plant operations.

Low frequency noise will be emitted from the locomotives operating on the site. This type of noise is not easily mitigated nor can it be dampened with the construction of berms. If this proposal is considered further, S&L recommends that a noise study be performed for each station. The noise levels could result in daytime only use of the system.

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



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## V. <u>References</u>

- 1) CSX Transportation July 30, 2003 Proposal
- 2) CSX Transportation August 11, 2003 Proposal
- 3) TECO Memorandum, August 29, 2003, D. Konstas
- 4) TECO Email (Painter), Electrical Input, 8/29/03
- 5) TECO Email (Alfonso), I&C Inputs, 8/29/03
- 6) TECO Email (Barrette), Reference Drawings, 8/29/03
- 7) TECO Email (Painter), Big Bend/Unloading Labor, 9/3/03
- 8) TECO Email (Painter), Revised Capital Cost Factors, 9/3/03
- 9) TECO Email (Painter), Polk/Coal Unloading Labor, 9/3/03
- 10) TECO Email (Painter), Insurance and Tax Rates, 9/2/03
- 11) TECO Email (Painter), CSXT Evaluation Tampa Electric Contacts, 8/29/03
- 12) TECO Email (Painter), Coal Delivery By Rail, 9/5/03
- 13) TECO Email (Painter), Desal Plant Owner, 9/5/03
- 14) TECO Email (Painter), CSXT Evaluation Affected Wetlands Area, 9/5/03
- 15) TECO Email (Barrette), CSXT S&L Report, 9/17/03

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



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# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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# EXHIBIT 2A-1

# BIG BEND CAPITAL COST 2 - 5.5 MM TONS

### CSXT COST ESTIMATE

-

### Big Bend 2 - 5.5 mm TPY Option (Rapid Discharge Cars)

System Rated at 2500 TPH

| Rapid Discharge System  | \$1,600,000 |
|-------------------------|-------------|
| Long Conveyor 3300 ft   | \$3,100,000 |
| Short Conveyor 500 ft.  | \$650,000   |
| Transfer Station        | \$230,000   |
| Three 45 Car Tracks     | \$1,200,000 |
| Truck Dump and Conveyor | \$350,000   |
| Total                   | \$7,130,000 |
|                         |             |

### Equipment to Load Shuttle Trains

| Conveyors and Transfer Station |   |
|--------------------------------|---|
| 250 Ton Batch Silo             |   |
| New 45 Car Track               |   |
| Total                          |   |
|                                | • |
| Grand Total                    |   |

**\$10,846,000** 

\$2,250,000

\$1,066,000

\$400,000

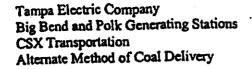
\$3,716,000

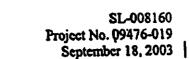
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### EXHIBIT 2A-2

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S&L COST ESTIMATE FOR BIG BEND 2 - 5.5 MM TON RAIL COAL DELIVERY OPTION

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|       |                                                                     | المتلحيات بالمتنيف فيتجمع فيتحد البنيني النباز بيهيها                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                                       | Rait Delivery                                  | ,                                           |                  |                        | Date:                   | W11/03                                                                                                         |            |
| Chica |                                                                     | Coal Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                   | Ord                                   | ler of Magnit                                  | ude                                         |                  |                        |                         |                                                                                                                |            |
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|       | •                                                                   | G-Vender Cluste                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | <u></u>                               |                                                | <b></b>                                     | f                | <u>↓</u>               |                         | /                                                                                                              |            |
|       |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                                       |                                                |                                             |                  |                        | ┟╍╍╍╍                   | ┟╼╌╌╾┤                                                                                                         |            |
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|       |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                                       |                                                |                                             |                  |                        |                         |                                                                                                                |            |
|       | 2 - 5.5 MM TPY OPTION WITH RAPID DISC                               | CHARGE CARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |                                       |                                                |                                             |                  |                        |                         |                                                                                                                |            |
|       | Equipment To Unload Trains @ 2500                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                                       |                                                |                                             |                  |                        |                         |                                                                                                                | 21,460,000 |
|       | Excavation for track hopper pit foundation                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1                                     | · · · · · · · · · · · · · · · · · · ·          | 1,000,000                                   |                  |                        | {                       | 1,000,000                                                                                                      | t          |
|       | Concrete work for track hopper                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1                                     | 800,000                                        |                                             |                  |                        | {                       | 1,120,000                                                                                                      |            |
|       | Track hopper building                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | <u> </u>                              | 150,000                                        |                                             |                  |                        | <u> </u>                | 260,000                                                                                                        |            |
|       | Hopper and grizzly                                                  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Est                 | -                                     | 200,000                                        |                                             |                  |                        |                         | 140,000                                                                                                        |            |
|       | Track hopper dust suppression                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>Est</u>          | ┟╾╌┼──                                | 200,000                                        |                                             |                  |                        | <u> </u>                | 280,000                                                                                                        |            |
|       | Bek fooders                                                         | 2 Each                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Est                 | <u> </u>                              | 200,000                                        | 60,000                                      |                  |                        |                         | 280,000                                                                                                        |            |
|       | Concrete work for conveyor / tunnel                                 | <b>-</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Est                 |                                       | \$00,000                                       | 400.000                                     |                  |                        |                         | 900,000                                                                                                        |            |
|       | Bell conveyor, 80° wide, 250 ft long                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1                                     | 100,000                                        | 40,000                                      |                  |                        |                         | 140,000                                                                                                        |            |
|       | Council allog has transfer house                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1                                     | 50,000                                         | 20,000                                      | J                | ļ                      | ]                       | 70,000                                                                                                         |            |
| ·     | Belt conveyor, 60° wide, 3200 ft long, hooded                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Esl                 | • •                                   | 4,800,000                                      |                                             | t                |                        | ╞━┷                     | 8,640,000                                                                                                      |            |
|       | Transfer house                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 |                                       | 300,000                                        | 240,000                                     |                  | [                      | {                       | 70,000                                                                                                         |            |
|       | Council alog for transfer bruise                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 |                                       | 50,000                                         |                                             |                  | <b>∤</b>               |                         | 1                                                                                                              |            |
|       | Belt conveyor to existing transfer house, 60° wide,                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | <u> </u>                              | 750,000                                        |                                             | ·[               | <b> </b>               | <b> </b>                | 1,350,000                                                                                                      |            |
|       | Existing transfer house modification house                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1 1                                   | 100,000                                        |                                             | (                |                        |                         | 160,000                                                                                                        |            |
|       | modification                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1                                     | 100,000                                        |                                             |                  |                        |                         | 180,000                                                                                                        |            |
|       | Foundation work for conveyors                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1                                     | 200,000                                        |                                             |                  |                        | J                       | 280,000                                                                                                        |            |
|       | Fire protection for conveyors                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Esl                 | 1                                     | 160,000                                        |                                             | <b>]</b>         |                        | l                       | 320,000                                                                                                        |            |
|       | HVAC for track hopper pit and transfer houses                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>E</u> #          | 1                                     | 200,000                                        | 80,000                                      | <b> </b>         | {                      | Į                       | 280,000                                                                                                        |            |
|       | Sumo pump system at track hopper                                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>            | · · · · · ·                           | 50,000                                         |                                             | B                | {                      | {                       | 70,000                                                                                                         |            |
|       | biologie and indiant                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 |                                       | 50,000                                         |                                             | <u> </u>         | ╏╼╼╼╍╼╼╍               | ╏╌┈┈╸                   | 1.500.000                                                                                                      |            |
|       | Track work modification - add three 45 car tracks                   | 7900LF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Est                 |                                       | 1.000.000                                      | 2.085.000                                   | 1                | <u></u>                |                         | 3,085,000                                                                                                      |            |
|       | Temporary Coller Dam                                                | .}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Est                 | ┼──┼──                                | 4,000                                          |                                             |                  | i                      | <b></b>                 | 475,000                                                                                                        |            |
|       | Dewatering                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | ·[                                    |                                                |                                             | <u> </u>         |                        | <b></b>                 | []                                                                                                             |            |
|       | Equipment To load Shuttle Trains                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | <u> </u>                              | 50,000                                         | 20,000                                      | <b> </b>         |                        |                         | 70.000                                                                                                         | 6,545,000  |
|       | Modification at existing bin                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | ┟──┾───                               | 60,000                                         |                                             | i                | t                      | 1                       | 84,000                                                                                                         |            |
|       | Belt feeder<br>Belt Conveyor to transfer house, 1000 lph, 42" wide, |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | ┟╌╌╎╴╴                                | 1,700,000                                      | 880,000                                     |                  | [                      |                         | 2,360,000                                                                                                      | •          |
|       | 1200 R tong, enclosed conveyor                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 1 1                                   | 50,000                                         | 20,000                                      | 1                | 1                      |                         | 70,000                                                                                                         |            |
|       | Fransler house                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | · · · · · · · · · · · · · · · · · · · | 50,000                                         | 20,000                                      |                  |                        |                         | 70,000                                                                                                         |            |
|       | Bell conveyor to load out station, 1000 ph, 42" wide,               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | <u> ;</u>                             | 1.000.000                                      |                                             | <u> </u>         | · · ·                  |                         | 1,400,000                                                                                                      |            |
| 1     | 700 n long enclosed conveyor                                        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Est                 | <u> </u>                              | 1,000,000                                      | L                                           |                  | l                      | L                       | 1                                                                                                              |            |

HUMPONMPROJECT BORSON FROM 1222A, BigBand 245 TYP Dynam, 2A2 and 5317 Ban pr 160

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\*\* REQUEST FOR POD

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A. CONFIDENTIAL.

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 14 OF 44

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| H8IT                                                                                                           | : 2A-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | Big Bend                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              | W11/03                                |                                                  |
| ent 2                                                                                                          | Lundy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1            | Rall Delivery                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              | Dale:                        | 11/03                                 |                                                  |
| hice                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ord          | er of Magnitu                                                | de                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                              |                              |                                       |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | et Type:                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CIU INALAI   | Y AND CON                                                    | FIDENTIAL-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                              |                              |                                       |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | e-Estimated                          | -PR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ELIMINA      | AT AND GOIN                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              | Run Date:                    | \$/11/03                              |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              | Proparar                     | 088/3M                                |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PBaOther Project Bid                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                |                                              | Reviewer                     |                                       |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Vender Quote                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              | ·~~                                   |                                                  |
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|                                                                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Score Definition                     | <u>Cosi</u><br>Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Guantity     | <u>Total.</u><br><u>Eculoment or</u><br><u>Material Cost</u> | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sub-<br>Contract | <u>DOR</u><br>(Furnish)                      | <u>DOR</u><br>(instali)      | <u>Total</u><br>Prolected Cost        | Sub-Total                                        |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 750,000                                                      | 300,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                              |                              | 1,050,000                             |                                                  |
| -                                                                                                              | Losdout bin structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | Est<br>Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | 100,000                                                      | . 80,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | )                |                                              |                              | 180,000                               |                                                  |
|                                                                                                                | Environment for conveyors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 200,000                                                      | 80,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N                | [                                            | .Į                           | 260,000                               |                                                  |
|                                                                                                                | Oust suppression for bell conveyors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 200,000                                                      | 60,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | I                                            | -l                           | 70,000                                |                                                  |
|                                                                                                                | The second and fast designation of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      | - Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | 200,000                                                      | 20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  | ļ                                            |                              | 70,000                                |                                                  |
|                                                                                                                | Late C for header bride and loadout stand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      | Esi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1            | 50,000                                                       | 20.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2                | ·                                            |                              | 42,000                                |                                                  |
|                                                                                                                | Sump pump system at loadout station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | Est_                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1            | 30,000                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                | I                                            |                              | 500.000                               |                                                  |
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| _                                                                                                              | Track work modification, add one 45 car track                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1500 U                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b></b>      |                                                              | l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | <u>]                                    </u> | . <u> </u>                   | -                                     | ł                                                |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | 1                                            |                              | 1                                     | 2,287                                            |
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|                                                                                                                | Electrical - Aux, Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2            | 50,000                                                       | 3,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                |                                              |                              | 298,000                               |                                                  |
|                                                                                                                | Vacuum Circuit Breaker and Cubicles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1-2-         | 270,000                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ol               |                                              |                              | 253.000                               |                                                  |
|                                                                                                                | 460 V Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | enclusive Switchgear                 | Esi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 200,000                                                      | 53,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 인                |                                              |                              |                                       |                                                  |
|                                                                                                                | MCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 480 V (BE Motors)                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              | 118,000                               | 1                                                |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trays (Transformer Feed)             | Est.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.000        | 60,000                                                       | 58,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>         |                                              |                              |                                       | -                                                |
|                                                                                                                | Treys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 33,000       | 99,000                                                       | 285,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ol               | 1                                            | 1                            | 384,000                               |                                                  |
|                                                                                                                | Conduits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Candults (500 LF typ per motor land) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 16.000                                                       | and the second sec | 0                |                                              |                              | 56,000                                |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MY-90                                | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2,000        | 165.000                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              | 690,000                               | <u> </u>                                         |
|                                                                                                                | Transformer Feeder Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SIC #2 - 500 LF per motor            | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 33,000       | 103,004                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ž                |                                              | -                            |                                       |                                                  |
|                                                                                                                | MV Witing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _ <b>_</b>   | 200,00                                                       | 60,03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                |                                              |                              | 260,000                               | 4                                                |
|                                                                                                                | Electrical Building - Pro Fabricated - Complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Elevated supports and foundations    | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ×                | -                                            | -                            |                                       |                                                  |
|                                                                                                                | Electrical Building - PTO P Juricitiou - Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              | 82.00                                                        | 93.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>         | -]                                           |                              | 175,000                               | J                                                |
| _                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5400 LF                              | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1            | <u>az,uu</u>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ~                | -                                            |                              |                                       | 1                                                |
|                                                                                                                | Conveyor Lighting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | .I           |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | -]                                           |                              |                                       | 55                                               |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1            | 1                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | t                                            | 1                            | 1                                     |                                                  |
|                                                                                                                | Control & Instrumentation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4            | 250.00                                                       | 250.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>6</b>         | -1                                           | -1                           | 500,00                                |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 VO's per Motor                     | <u>Esi</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -l <u></u> - | 25,00                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | -                                            |                              | 50,00                                 |                                                  |
| _                                                                                                              | OCS Upgrades                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ┥╾┿╾         | 25,00                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              | 6,00                                  | 2                                                |
|                                                                                                                | DCS BOP Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                    | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1_1_         |                                                              | Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ~                |                                              |                              |                                       | 1                                                |
|                                                                                                                | Locally Mounted Instruments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -1               | -1                                           |                              |                                       | 77;                                              |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1            | 1                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | 1                                            |                              | 1.                                    |                                                  |
|                                                                                                                | BOP Rems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | l•                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                              | x                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <del></del>      |                                              |                              | 179,00                                | ó                                                |
|                                                                                                                | · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1000 1.4                             | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1            | 95,00                                                        | 0 <u>64,0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>≪I</b>        | ~ <b> </b>                                   |                              | 30,00                                 |                                                  |
|                                                                                                                | Fire Protection Upgrade - underground                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Eleveled at +15' (99,000 CY)         | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2            |                                                              | 0 30,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u> </u>         |                                              |                              | 8,00                                  |                                                  |
|                                                                                                                | Demo/Reconstruction of Storage Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30001.5                              | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 2,00                                                         | 6,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | -1                                           | ~[                           | 50.00                                 |                                                  |
|                                                                                                                | The second second for a second s | funce - Alexance                     | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1            | 25,00                                                        | 0 25,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                                              |                              | 130,00                                |                                                  |
|                                                                                                                | Underground Utility Identification and Pletocation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2 - 20' lines                        | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1            | 50,00                                                        | 0 80,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                              |                              | 100.00                                |                                                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Allowence                            | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11           | 50,00                                                        | 50,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>20</u>        | -1                                           | -1                           | -1                                    |                                                  |
| -                                                                                                              | General Services Interconnection (water & air, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _                |                                              | _                            |                                       | +                                                |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              | 148,96                                | d                                                |
|                                                                                                                | Adjustment for FL Building Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Applied to Estimated Steel Cost      | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1            |                                                              | 0 148,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                              | -[                           | - 127,68                              |                                                  |
|                                                                                                                | Steel @ 7%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Applied to Estimated Concrete Cold   | and the second se | 1 1          |                                                              | 0 127,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50               | _{                                           |                              |                                       | "                                                |
| the second s | Concrete @ 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A A REAL OF CONTRACT OF A REAL OF A  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -            |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                              |                              |                                       | a di sana sa |

EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 15 OF 44

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\* REQUEST FOR POD

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|-------------|---------------------------------------------|------------------------------------------------|---------------------|------------|-----------------------------------------------|---------------------------------------------|-------------------------------|-------------------------|-------------------------|--------------------------------------------------|---------------------------------------|
|             | 124-2                                       |                                                |                     |            | Big Bend                                      |                                             | i                             |                         | Project No.:            | 45476-855                                        |                                       |
|             | Lundy LLC                                   |                                                |                     |            | Rail Delivery                                 |                                             |                               |                         | Date:                   | \$11103                                          |                                       |
| Chica       |                                             |                                                |                     | <u> </u>   | er of Magnitu                                 | de                                          |                               |                         |                         |                                                  |                                       |
| Cinco       |                                             | Cost Type:                                     |                     | Ura        | RY AND CON                                    | SIDENTIAL .                                 |                               |                         |                         |                                                  |                                       |
|             |                                             | fat-Balmated                                   | •PI                 | ELIMINA    | RT AND CON                                    |                                             |                               |                         | Runt Date:              | CILLING CILLING                                  |                                       |
|             |                                             | 6-61d                                          |                     |            |                                               |                                             |                               |                         | Properar:               |                                                  |                                       |
|             |                                             | OPB-Other Project Bid                          |                     |            |                                               |                                             |                               |                         | Reviewer:               |                                                  |                                       |
|             |                                             | Quillandor Quote                               |                     |            |                                               |                                             |                               |                         |                         |                                                  |                                       |
|             |                                             |                                                |                     |            |                                               |                                             |                               |                         |                         |                                                  |                                       |
| Aoct.       | Description                                 | Score Definition                               | <u>Cost</u><br>Type | Quantity   | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Suib-</u><br>Contrast<br>1 | <u>DOR</u><br>(Furnish) | <u>DOR</u><br>(Instali) | <u>Total</u><br>Projected Cost                   | Sub-Totala                            |
|             |                                             |                                                |                     |            |                                               |                                             |                               |                         |                         | 31,622,640                                       |                                       |
|             |                                             |                                                |                     | ľ          | 16,995,000                                    | 14,627,640                                  |                               |                         |                         |                                                  |                                       |
|             | Sub-Total                                   |                                                |                     | 1          |                                               |                                             |                               | <b> </b>                | {                       | ┨╍╍╍╍╍┨                                          |                                       |
|             |                                             |                                                |                     |            |                                               |                                             |                               | 1                       | Į –                     | 1 1                                              | 2,194,0                               |
|             | Other Costs/Adjustments                     |                                                |                     |            |                                               |                                             |                               |                         |                         | <u> </u>                                         |                                       |
|             |                                             | · · · · · · · · · · · · · · · · · · ·          |                     |            |                                               |                                             |                               | <b> </b>                |                         | <u> </u>                                         |                                       |
|             | Contractor's General & Administrative Costs | Based 5% of Equip, Meterial,<br>and Labor      |                     |            |                                               | 731,000                                     |                               |                         | <u> </u>                | 731,000                                          |                                       |
| <u> </u>    | Contractor's Profil                         | Based 10% of Equip.<br>Material, and Labor     |                     |            |                                               | 1,463,000                                   |                               |                         |                         | 1,463,000                                        |                                       |
|             | Total Equipment, Material and Labor         |                                                |                     |            | 16,995,000                                    | 16,821,640                                  |                               |                         |                         | 33,816,640                                       | 33,816,6                              |
|             | Costs                                       |                                                |                     | -l         |                                               | ·                                           |                               |                         |                         |                                                  |                                       |
| _           |                                             |                                                | .                   | -          |                                               | ┟─────                                      |                               |                         |                         |                                                  |                                       |
|             | Freight, Dutles, Taxes, Etc.                |                                                |                     | ł          |                                               | <u> </u>                                    | J                             | <b></b>                 |                         | Included In                                      |                                       |
| <del></del> | Freight-ExWorks To Site                     | included in Material &<br>Equipment Costs      |                     |            |                                               |                                             | ;                             | <br>                    |                         | Material &<br>Equipment<br>Costa<br>Not included |                                       |
|             |                                             | Not Included                                   |                     |            |                                               | <u> </u>                                    |                               |                         |                         |                                                  |                                       |
|             | Texes - Seles/Use/VAT/Business/Ekc.         |                                                |                     |            |                                               |                                             |                               |                         | -1                      | 33,816,640                                       | 33,816,                               |
|             | Total Direct Project Costs                  |                                                |                     |            | 16,995,000                                    | 16,821,64                                   |                               |                         | <u> </u>                | 33,010,040                                       |                                       |
|             | Indirect Costs                              |                                                |                     |            |                                               |                                             |                               |                         |                         | <u></u>                                          | 3,368,                                |
|             |                                             |                                                | ╺┟───               |            |                                               | 1                                           |                               |                         |                         | Not included                                     | ļ                                     |
|             | Builders Risk                               |                                                | ╺┨╧╾╼╼╼             |            | -1                                            | 1                                           |                               |                         |                         | 2,367,165                                        | 1                                     |
|             | Engineering/Procurement                     |                                                |                     |            | _{                                            |                                             | 4                             | -1                      | -1                      | 236,710                                          | · · · · · · · · · · · · · · · · · · · |
|             | Tampa Electric Interface with A/E           | Project Mgmnl, Eng and<br>Construction Support | <u> </u>            | _ <b>_</b> |                                               |                                             |                               |                         |                         | 236,710                                          | Į                                     |
|             | Tampa Electric Management of EPC Contractor | Four men for 2 yrs @ \$75K                     | _                   |            |                                               |                                             |                               |                         |                         | 163,000                                          |                                       |
| ļ           | Permits and Fees                            | Tampa                                          | _I                  |            |                                               |                                             | 4                             | -{                      |                         |                                                  |                                       |
|             |                                             |                                                |                     |            |                                               |                                             |                               |                         |                         |                                                  |                                       |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 16 OF 44

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\*\* REQUEST FOR POD

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EXHIBIT: 2A-2 Tampa Electric Estimate No.: 21222A Sargent & Lundy Big Bend Project No.: 03478-018 Chicago **Rail Delivery** Date: 9111/03 Cast Type: Excelotionalise Order of Magnitude -PRELIMINARY AND CONFIDENTIAL-B-Bid OPB-Other Project Bid Run Date: \$11/03 Property: GBB/SH Confender Quele Reviewer FAQ <u>Total</u> Construction Total Equipment or Material Cost <u>Sub-</u> Aret <u>Cost</u> Ixpe DOR (Furnish) <u>DOR</u> (Install) Total. Projected Cost Description Scope Definition Quantity Contract No. Sub-Totals & Erection 1 Cost **Total Indirect Project Costs** 3,366,881 Escalation Not included Not Included **EPC** Costs 4,920,321 4,920,321 Genéral & Administrative (G&A) @ 5% of Direct Costs Efficacy insurance @ .8% of Direct Costs 1,690,832 270,53 Profit and Home Office Fee @ 6% of Direct Costs Overhead 2,705,331 Performance Bond @ .75% of Direct Costs 253,625 Contingency 8,420,768 Contingency 20% of overall cost 8,420,768 Interest During Construction (AFUDC) Not included Not Included **Total Project Cost** 50,524,611 50,524,611

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 17 OF 44

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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### **EXHIBIT 2A-3**

### OPERATING COST ESTIMATE FOR 2 - 5.5 MILLION TON RAIL DELIVERY OF COAL BIG BEND STATION

### <u>Variable</u>

|              | Power <sup>(1)</sup>                                   | \$68,000 - \$128, | ,000                |
|--------------|--------------------------------------------------------|-------------------|---------------------|
|              | Surfactant                                             | \$97,000 - \$266, | ,000                |
|              | Labor                                                  | \$301,308 - \$90  | 3,925               |
| <u>Fixed</u> |                                                        |                   |                     |
| •            | Labor                                                  | \$301,308         |                     |
|              | Lease for Locomotive                                   | Not Available     |                     |
|              | Taxes and Insurance (2.085% Installed Capital<br>Cost) | ,<br>\$573,900    |                     |
|              | Maintenance (3% of Installed Cost)                     | \$825,720         |                     |
| Total        | Operating Cost Per Year                                | \$2,167,200       | <b>\$</b> 2,697,500 |

<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 18 OF 44

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

# EXHIBIT 2B-1

# **BIG BEND CAPITAL COST 1-2 MM TON**

### CSXT ESTIMATE

# Big Bend 1 - 2 MM TPY Option (Standard Coal Hoppers)

System Rated at 1500 TPH

| Modify Limestone Pit    | \$250,000   |
|-------------------------|-------------|
| Long Conveyor           | \$1,953,000 |
| Transfer Station        | \$230,000   |
| Short Conveyor          | \$280,000   |
| Three 45 Car Tracks     | \$1,200,000 |
| 200' Radial Stacker     | \$250,000   |
| Truck Dump and Conveyor | \$350,000   |
| Total                   | \$4,513,000 |

# Equipment to Load Shuttle Trains

| Reclaim Hopper with Feed to Batch Silo | \$469,000          |
|----------------------------------------|--------------------|
| 250 Ton Batch Silo                     | \$1,066,000        |
| Loader/Dozer                           | \$750,000          |
| Total                                  | <b>\$2,285,000</b> |
|                                        | <b></b>            |

Grand Total ...... \$10,846,000

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 19 OF 44

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### EXHIBIT 2B-2

# BIG BEND 1 TO 2 MILLION TON BUILD IN S&L INDEPENDENT ESTIMATE

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 20 OF 44

| EXHIBIT: 28-2 Sergent & Lundy <sup>112</sup> Chicage Chicage Acts. Rescription Acts. Rescript                                                     |                                       |               |            | among Elandal                                 | 1                                           |                                       |                         | atimale No.:     | 1949999                                                                                                        |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|------------|-----------------------------------------------|---------------------------------------------|---------------------------------------|-------------------------|------------------|----------------------------------------------------------------------------------------------------------------|------------|
| Chicago         Acct.         Max         Description         Concrete work for track hopper pM houndation         Belt feeders         Concrete work for conveyor / barnel         Belt feeders         Concrete work for transfer house         Belt conveyor to a radial stacker, 43° wide, 1,500 ft long, hooded         Conversion for transfer house         Poundation for transfer house         Belt conveyor to a radial stacker, 43° wide, 400 ft long, hooded         Conversion for conveyors         Poundetion for t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | İ                                     | <b></b>       |            | ampa Electri                                  | ¢                                           | · · · · · · · · · · · · · · · · · · · |                         |                  |                                                                                                                |            |
| Chicego  Active                                                               |                                       | 1             | <b></b>    | Big Bend                                      |                                             |                                       |                         |                  | 09478-819                                                                                                      |            |
| Acts. Description<br>1 - 2 MM TPY OPTION WITH BOTTOM DU<br>Equilipment To Unload Trains & 1500<br>TPH<br>Ensemblon for track hopper pit foundation<br>Concrete work for track hopper pit foundation<br>Concrete work for track hopper<br>Track hopper building<br>Car shaker / support steel<br>Hopper shulding<br>Car shaker / support steel<br>Hopper dual suppression<br>Bell freeders<br>Concrete work for conveyor / burnel<br>Bell conveyor, 48' wide, 250 ft long<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor to radial stacker. 48' wide, 400 ft long,<br>hooded conveyor to radial stacker. 48' wide, 400 ft long,<br>hooded conveyor to radial stacker. 48' wide, 400 ft long.<br>House Radial stacker. 48' wide, 200 ft long<br>Foundation for innetter house<br>Radial stacker. 48' wide, 200 ft long<br>House Radial stacker. 48' wide, 200 ft long<br>House Radial stacker. 48' wide, 200 ft long<br>Foundation work for conveyors<br>Fire projection et work hopper<br>Hotska and ruleys<br>Fire for the conveyors<br>Fire projection for conveyors<br>Fire projection for conveyors<br>Fire projection for conveyors<br>Fire projection for conveyors<br>Fire projection et work for conveyors<br>Fire projection for co |                                       |               |            | Rall Delivery                                 |                                             |                                       |                         | Date:            | ert 1/83                                                                                                       |            |
| Ma         Empirication           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipment To Unload Trains @ 1500           TPH           Enceretion for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper           Track hopper building           Car shisker / support fited           Hopper dual suppression           Øett frederin           Concrete work for conveyor / barnet           Beit conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Beit conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stachar, 46" wide, 200 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cost Type:                            |               | Ore        | ler of Magnit                                 | ude                                         |                                       |                         |                  |                                                                                                                |            |
| Ma         Emission           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipriment To Unload Trains @ 1500           TPH           Encavelon for track hopper pit foundation           Concrete work for track hopper           Track hopper dual suppression           Øet frederin           Concrete work for conveyor / barnet           Bell conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Bell conveyor to radial stacker, 48" wide, 400 ft long, hood4d           Conveyor to radial stacker, 48" wide, 400 ft long, hood4d           Conveyor to radial stacker, 48" wide, 400 ft long, hood4d           Conveyor to radial stacker, 48" wide, 400 ft long, hood4d           Conveyor to radial stacker           Foundation for immater house           Radial stacker, 48" wide, 200 ft long           Foundation for branker house           Radial stacker, 46" wide, 200 ft long           Foundation for branker house           Radial stacker, 46" wide, 200 ft long           Free projection for converors <t< td=""><td>Established</td><td>-P</td><td>RELIMINA</td><td>RY AND COL</td><td>NFIDENTIAL.</td><td></td><td></td><td>· - ·</td><td></td><td></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Established                           | -P            | RELIMINA   | RY AND COL                                    | NFIDENTIAL.                                 |                                       |                         | · - ·            |                                                                                                                |            |
| Ma         Empirication           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipment To Unload Trains @ 1500           TPH           Enceretion for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper           Track hopper building           Car shisker / support fited           Hopper dual suppression           Øett frederin           Concrete work for conveyor / barnet           Beit conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Beit conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stachar, 46" wide, 200 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8-61d                                 | +             | 1          |                                               |                                             |                                       |                         | Run Date:        | 9/11/03                                                                                                        |            |
| Ma         Empirication           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipment To Unload Trains @ 1500           TPH           Enceretion for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper           Track hopper building           Car shisker / support fited           Hopper dual suppression           Øett frederin           Concrete work for conveyor / barnet           Beit conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Beit conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stachar, 46" wide, 200 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OperOther Project Bid                 |               | <u> </u>   |                                               |                                             |                                       |                         |                  | G88/3M                                                                                                         |            |
| Ma         Empirication           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipment To Unload Trains @ 1500           TPH           Enceretion for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper           Track hopper building           Car shisker / support fited           Hopper dual suppression           Øett frederin           Concrete work for conveyor / barnet           Beit conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Beit conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stachar, 46" wide, 200 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |               | Į          |                                               |                                             |                                       |                         |                  | the second s |            |
| Ma         Empirication           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipment To Unload Trains @ 1500           TPH           Enceretion for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper           Track hopper building           Car shisker / support fited           Hopper dual suppression           Øett frederin           Concrete work for conveyor / barnet           Beit conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Beit conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stachar, 46" wide, 200 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Q=Vander Quete                        |               | L          |                                               |                                             |                                       |                         | Reviewer:        | PAG                                                                                                            |            |
| Ma         Empirication           1 - 2 MM TPY OPTION WITH BOTTOM DU           Equipment To Unload Trains @ 1500           TPH           Enceretion for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper pit foundation           Concrete work for track hopper           Track hopper building           Car shisker / support fited           Hopper dual suppression           Øett frederin           Concrete work for conveyor / barnet           Beit conveyor, 48" wide, 250 ft long           Transfer house           Foundation for transfer house           Beit conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker, 48" wide, 400 ft long, hood4d           conveyor to radial stacker           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stacker, 48" wide, 200 ft long           Foundation for immeter house           Redial stachar, 46" wide, 200 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                     | 1             | 1          |                                               |                                             |                                       |                         |                  |                                                                                                                |            |
| Equipriment To Unional Trains (* 1500)<br>TPH<br>Encavation for track hopper of foundation<br>Concrete work for track hopper<br>Track hopper building<br>Car shipler / support steel<br>Hooper and straty<br>Track hopper dust suppression<br>Bell conveyor dust suppression<br>Bell conveyor, 48° wide, 250 ft long<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor, 48° wide, 1,500 ft long, hooded<br>correspor<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor to radial stacker, 48° wide, 400 ft long,<br>hooded conveyor<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Readial stacker, 48° wide, 200 ft long<br>hooded conveyors<br>Fransfer house at radial stacker<br>Foundation for transfer house<br>Readial stacker, 48° wide, 200 ft long<br>bound conveyors<br>Fire projection for conveyors<br>Houst suppression for bell conveyors<br>Fire projection for conveyors<br>Housts and trainer house<br>Sume pump system at the conveyors<br>Housts and trainer at the conveyors<br>Fire projection for conveyors<br>Housts and trainer, and transfer houses<br>Sume pump system at the conveyors<br>Housts and trainer, and transfer houses<br>Sume pump system at the conveyors<br>Housts and trainer, and transfer houses<br>Sume pump system at the conveyors<br>Housts and trainer, and transfer houses<br>Sume pump system at the conveyors<br>Housts and trainer for the conveyors<br>Housts and trainer for the conveyors<br>Housts and trainer for the conveyors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Score Definition                      | Cost.<br>Iypa | Quentity   | <u>Totat</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract               | <u>DOR</u><br>(Evrnish) | DOR<br>(Install) | Total<br>Projected Cost                                                                                        | Sub-Totala |
| Equipriment to Unload Trains & 1500<br>TPH<br>Excernition for track hopper of foundation<br>Concrete work for track hopper<br>Track hopper building<br>Car shipler / support steel<br>Hopper and straty<br>Track hopper dust suppression<br>Bell conveyor dust suppression<br>Bell conveyor, 45° wide, 250 ft long<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor, 45° wide, 1,500 ft long, hooded<br>correspon<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor to radial stacker, 48° wide, 400 ft long,<br>hooded conveyors<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Bell conveyors<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Radial estacker, 48° wide, 200 ft long<br>hooded conveyors<br>Fire projection for conveyors<br>HVAG for track hopper pit and transfer houses<br>Sume purp system at the conveyors<br>HVAG for track hopper pit and transfer houses<br>Sume purp system at the conveyors<br>Hosts and rolleys<br>Transfer Danie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |               |            |                                               | · · · · ·                                   |                                       |                         |                  |                                                                                                                |            |
| Equipriment to Unload Trains & 1500<br>TPH<br>Excernition for track hopper of foundation<br>Concrete work for track hopper<br>Track hopper building<br>Car shipler / support steel<br>Hopper and straty<br>Track hopper dust suppression<br>Bell conveyor dust suppression<br>Bell conveyor, 45° wide, 250 ft long<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor, 45° wide, 1,500 ft long, hooded<br>correspon<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor to radial stacker, 48° wide, 400 ft long,<br>hooded conveyors<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Bell conveyors<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Radial estacker, 48° wide, 200 ft long<br>hooded conveyors<br>Fire projection for conveyors<br>HVAG for track hopper pit and transfer houses<br>Sume purp system at the conveyors<br>HVAG for track hopper pit and transfer houses<br>Sume purp system at the conveyors<br>Hosts and rolleys<br>Transfer Danie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MP HOPPER                             | - · ·         |            |                                               |                                             |                                       |                         |                  | ]                                                                                                              |            |
| TPH         Encarysion for track hopper pit foundation         Concrete work for track hopper         Track hopper building         Car shaker / support steet         Track hopper dual suppression         Best feeders         Concrete work for track hopper / hernel         Best feeders         Concrete work for conveyor / hernel         Best feeders         Concrete work for conveyor / hernel         Best conveyor, 46" wide, 250 ft long.         Transfer house         Best conveyor, 46" wide, 1,500 ft long, hooded         conveyor, 46" wide, 1,500 ft long, hooded         conveyor, 46" wide, 1,500 ft long, hooded         conveyor to radial stacker, 48" wide, 400 ft long, hooded conveyors         Transfer house at radial stacker         Foundation for instaler house         Redial stacker, 46" wide, 200 ft long.         Poundation for instaler house         Redial stacker, 46" wide, 200 ft long.         Foundation for convervors         Poundation for convervors         Coundation for convervors         File projection for convervors         Poundation by convervors         File projection for convervors         Poundation by convervors         File projection for convervors         Poundatio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       | 1             | ·          |                                               |                                             |                                       |                         |                  | ·                                                                                                              |            |
| Excernition for track hopper pit foundation     Concrete work for track hopper     Track hopper building     Car sheker / support shelding     Car sheker / support shelding     Track hopper dual suppression     Bell freeders     Concrete work for conveyor / burnel     Bell conveyor, 45° wide, 250 ft jong     Transfer house     Foundation for transfer house     Bell conveyor, 45° wide, 1,500 ft long, hooded     conveyor to radial stacker, 48° wide, 400 ft long     hooded conveyor     Transfer house     Foundation for transfer house     Bell conveyor to radial stacker, 48° wide, 400 ft long     hooded conveyor     Transfer house     Foundation for conveyors     Transfer house     Foundation for conveyors     Fire projection for conveyors                                                                       |                                       |               |            |                                               |                                             |                                       |                         |                  |                                                                                                                | 10,965,00  |
| Concrete work for track hooper<br>Track hopper building<br>Car shelker / support dreet<br>Hopper and srizzly<br>Track hopper dual suppression<br>Bell conveyor dual suppression<br>Concrete work for conveyor / barnel<br>Bell conveyor, 48' wide, 250 R long<br>Transfer house<br>Poundation for transfer house<br>Bell conveyor, 48' wide, 1,500 R long, hood4d<br>conveyor, 48' wide, 1,500 R long, hood4d<br>conveyor to racket stacker, 48' wide, 400 R long,<br>hooded conveyor to racket stacker<br>Foundation for transfer house<br>Bell conveyor to racket stacker<br>Foundation for transfer house<br>Bell conveyor to racket stacker<br>Foundation for immeter house<br>Racket stacker, 48' wide, 200 R long<br>Foundation work for conveyors<br>Curet suppression for bell conveyors<br>Fire projection for conveyors<br>HVAG for track hopper pit and transfer houses<br>Sump purp oratem et track hopper<br>Holdst and traleyor<br>Track work modification, add one 45 car track<br>Temporary Coffer Demi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | Est           | 1          | 0                                             | 500,000                                     |                                       |                         |                  | 500,000                                                                                                        |            |
| Car shaker / support steel<br>Hopport and ortany<br>Track hopport dust suppression<br>Belt feeders<br>Concrete work for conveyor / humel<br>Belt conveyor, 46" wide, 250 ft long<br>Transfer house<br>Poundation for transfer house<br>Belt conveyor, 46" wide, 1,500 ft long, hooded<br>conveyor, 46" wide, 1,500 ft long, hooded<br>conveyor, 46" wide, 1,500 ft long, hooded<br>conveyor, 46" wide, 1,500 ft long, hooded<br>conveyor to radial stacker<br>Foundation for transfer house<br>Belt conveyor to radial stacker<br>Foundation for transfer house<br>Belt conveyor to radial stacker<br>Foundation for transfer house<br>Radial stacker, 48" wide, 200 ft long<br>Foundation work for conveyors<br>Fire projection for conveyors<br>Fire projection for conveyors<br>Fire projection for conveyors<br>HVAC for track hopper pit and transfer houses<br>Sump pump system at track hopper<br>Hoists and rolleya<br>Track work modification, add one 45 car track<br>Temporary Coffer Dem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       | EN            |            | 406,000                                       | 160,000                                     |                                       |                         |                  | 660,000                                                                                                        |            |
| Track freedors     Generote work for conveyor / burnel     Belt conveyor, 45° wide, 250 ft long     Transfer house     Foundation for transfer house     Foundation for transfer house     Belt conveyor, 45° wide, 1,500 ft long, hooded     Gonnstor     Transfer house     Foundation for transfer house     Belt conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyors     Transfer house at radial stacker     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation mat track hopper     Holsts and traiter     Track work modification, add one 45 car track     Temporary Coffer Dem     Cevestering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | Est           | 1          | 120,000                                       | 48,000                                      |                                       |                         |                  | 166,000                                                                                                        |            |
| Track freedors     Generote work for conveyor / burnel     Belt conveyor, 45° wide, 250 ft long     Transfer house     Foundation for transfer house     Foundation for transfer house     Belt conveyor, 45° wide, 1,500 ft long, hooded     Gonnstor     Transfer house     Foundation for transfer house     Belt conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyors     Transfer house at radial stacker     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation mat track hopper     Holsts and traiter     Track work modification, add one 45 car track     Temporary Coffer Dem     Cevestering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | Est           |            |                                               | 24,000                                      |                                       |                         |                  | 84,000                                                                                                         |            |
| Track freedors     Generote work for conveyor / burnel     Belt conveyor, 45° wide, 250 ft long     Transfer house     Foundation for transfer house     Foundation for transfer house     Belt conveyor, 45° wide, 1,500 ft long, hooded     Gonnstor     Transfer house     Foundation for transfer house     Belt conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyor to radial stacker, 45° wide, 400 ft long,     hooded conveyors     Transfer house at radial stacker     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation for transfer house     Radial stacker, 45° wide, 200 ft long     Foundation mat track hopper     Holsts and traiter     Track work modification, add one 45 car track     Temporary Coffer Dem     Cevestering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | Est           |            | 150,000                                       | 60,000                                      |                                       |                         | <u> </u>         | 210,000                                                                                                        |            |
| Concrete work for conveyor / tarnel<br>Bell conveyor, 48' wide, 250 R long<br>Transfer house<br>Foundation for transfer house<br>Bell conveyor, 48' wide, 1,500 R long, hooded<br>conveyor<br>Transfer house<br>Poundation for transfer house<br>Bell conveyor to radial stacker, 48' wide, 400 R long,<br>hooded conveyor to radial stacker<br>foundation for transfer house<br>Redial stacker, 48' wide, 200 R long<br>Foundation for transfer house<br>Radial stacker, 48' wide, 200 R long<br>Foundation work for conveyors<br>Radial stacker, 48' wide, 200 R long<br>Foundation work for conveyors<br>Plas projection for conveyors<br>Plas projection for conveyors<br>Plas projection for conveyors<br>HVAC for track hopper pl and transfer houses<br>Sump pump system at track hopper<br>Holsts and relieve<br>Track work modification, add one 45 car track<br>Temporary Cofer Dem<br>Develoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | Est           | 1 2        | 100,000                                       | 40,000                                      |                                       |                         |                  | 140,000                                                                                                        |            |
| Beit conveyor, 48" wide, 250 ft jong           Transfer house           Poundation for transfer house           Beit conveyor, 48" wide, 1,500 ft long, hooded           conveyor to radial stacker, 48" wide, 400 ft long, hooded           Beit conveyor to radial stacker, 48" wide, 400 ft long, hooded conveyor           Transfer house at radial stacker           Foundation for transfer house           Redial stacker, 48" wide, 200 ft long           Foundation for transfer house           Redial stacker, 48" wide, 200 ft long           Foundation for transfer house           Redial stacker, 48" wide, 200 ft long           Foundation for transfer house           Redial stacker, 48" wide, 200 ft long           Foundation for transfer house           Redial stacker, 48" wide, 200 ft long           Foundation for transfer house           Out suppression for conveyors           HV/AC for track hopper pit and transfer houses           Sump pump system at track hopper           Hoists and trailering           Track work modification, add one 45 car track           Temps working           Oewestering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       | Est           |            | 150,000                                       | 60.000                                      |                                       |                         |                  | 210.000                                                                                                        |            |
| Trensfer house<br>Foundation for transfer house<br>Belt conveyor, 48 wide, 1,500 ft long, hooded<br>conveyor<br>Transfer house<br>Foundation for transfer house<br>Belt conveyor to radial stacker, 48 wide, 400 ft long,<br>hooded conveyor<br>Trensfer house at radial stacker<br>Foundation for transfer house<br>Radial stacker, 48 wide, 200 ft long<br>Foundation for transfer house<br>Radial stacker, 48 wide, 200 ft long<br>Foundation for transfer house<br>Radial stacker, 48 wide, 200 ft long<br>Foundation for conveyors<br>Oust suppression for belt conveyors<br>Fire protection for conveyors<br>HVAC for track hooper pit and transfer houses<br>Stump pump system at track hooper<br>Holsts and traiters<br>Track work modification, add one 45 car track<br>Temporary Coffer Dam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       | Est           |            | 375,000                                       | 150,000                                     |                                       |                         |                  | 525,000                                                                                                        |            |
| Poundation for transfer house           Beit conveyor, 48 'wide, 1,500 it long, hooded         Gommand           Ormanic         Fransfer house           Poundation for transfer house         Beit conveyor to radial stacker, 48 'wide, 400 it long, hooded convercer           Beit conveyor to radial stacker         Foundation for transfer house           Redial stacker, 48 'wide, 200 it long         Poundation for transfer house           Radial stacker, 48' wide, 200 it long         Poundation for convercers           Outs suppression for cell convercers         Outs suppression for cell convercers           File protection for convercers         File protection for convercers           HVAG for track hopper pit and transfer houses         Sump pump system at track hopper.           Holsts and inducation, add one 45 car track         Temporary Colfection, add one 45 car track           Temporary Colfection         Owned form           Ownedering         Ownedering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | Est           |            | 80,000                                        | 32.000                                      |                                       |                         |                  | 112,000                                                                                                        |            |
| Belt conveyor, 48° wide, 1,500 ft long, hooded<br>conveyor<br>Transfer house<br>Foundation for transfer house<br>Belt conveyor to radial stacker, 48° wide, 400 ft long,<br>hooded conveyors<br>Transfer house at radial stacker<br>Foundation work or conveyors<br>Radial stacker, 48° wide, 200 ft long<br>Foundation work for conveyors<br>Oust suppression for belt conveyors<br>HVAC) for track hopper pit and transfer houses<br>Sump pump system at track hopper<br>Holsts and traileys<br>Track work modification, add one 45 car track<br>Temporary Coffer Dam<br>Devisitering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | Est           |            | 40,000                                        | 18.000                                      |                                       |                         |                  | 56,000                                                                                                         |            |
| Connestor<br>Transfer house<br>Foundation for transfer house<br>Self conveyor to radial stacker, 48° wide, 400 ft long.<br>hooded conveyor<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Radial stacker, 48° wide, 200 ft long<br>Foundation work for conveyors<br>Ouse suppression for bell conveyors<br>Ouse suppression for bell conveyors<br>Fire projection for conveyors<br>HVAG for track hopper på and transfer houses<br>Sump purp system at track hopper.<br>Hotats and traleva<br>Track work modification, add one 45 car track<br>Temporary Coffer Dem<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |               |            |                                               |                                             |                                       |                         |                  |                                                                                                                |            |
| Transfer house         Poundation for transfer house         Beit conveyor to radial stacker, 45° wide, 400 ft long,         houded conveyor.         Transfer house at radial stacker.         Foundation for transfer house         Radial stacker, 48° wide, 200 ft long.         Foundation for transfer house         Radial stacker, 48° wide, 200 ft long.         Foundation for conveyors.         Oust suppression for bit conveyors.         Fire projection for conveyors.         HVAC for track hopper pit and transfer houses.         Sump pump system at track hopper.         Holsts and tracking.         Track work modification, add one 45 car track.         Temporary Colfer Dam.         Develoring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       | Est           | <b>*</b> • | 1,800,000                                     | 720,000                                     |                                       |                         |                  | 2,520,000                                                                                                      |            |
| Foundation for transfer house<br>Buil conveyor to radial stacker, 45° wide, 400 ft long,<br>hooded conveyor<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Radial stacker, 45° wide, 200 ft long<br>Foundation work for conveyors<br>Oust suppression for belt conveyors<br>Oust suppression for belt conveyors<br>Fire projection for conveyors<br>HVAC for track hopper pit and transfer houses<br>Stump pump system at track hopper.<br>Hotsts and traileys<br>Track work modification, add one 45 car track<br>Temporary Coller Dam<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       | Est           | (          | 200,000                                       | 160,000                                     |                                       |                         |                  | 360,000                                                                                                        |            |
| hooded converse.<br>Trensfer house at radial stacker<br>Foundation for immeler house<br>Radial stacker, 44" wide, 200 it ions<br>Poundation work for conveyors<br>Dust suppression for beit conveyors<br>Fire projection for conveyors<br>HVAG for track hopper pit and transfer houses<br>Sump pump system at track hopper<br>Hotals and rolleys<br>Track work modification, add one 45 car track<br>Temporary Coffer Dem<br>Dewstering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       | Eat           | 1          | 60,000                                        | 20,000                                      |                                       |                         |                  | 70,000                                                                                                         |            |
| hooded converse<br>Transfer house at radial stacker<br>Foundation for transfer house<br>Radial stacker, 44° wide, 200 ft long<br>Foundation work for converses<br>Cust suppression for bell conversors<br>Cust suppression for bell conversors<br>Fire projection for conversors<br>HVAC for track hopper pit and transfer houses<br>Sump pump system at track hopper<br>Holsts and trailers<br>Track work modification, add one 45 car track<br>Temporary Coffer Dam<br>Develoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | Est           | ,          | 600.000                                       | 200,000                                     |                                       |                         |                  | 700,000                                                                                                        |            |
| Radial stacker, 44 wide, 200 it long         Foundation work for conveyors         Durid suppression for beit conveyors         Fire projection for conveyors         HVAC for track hopper pit and transfer houses         Sump pump system at track hopper         Hotals and releva         Track work modification, add one 45 car track         Temporary Coffer Dem         Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |               | <b></b>    |                                               |                                             |                                       |                         |                  |                                                                                                                |            |
| Redial stacker, 44° wide, 200 h long<br>Foundation work for converors<br>Outs suppression for bell converors<br>Fire projection for converors<br>HVAC for track hopper pit and transfer houses<br>Sump pump system at track hopper.<br>Holsts and insilers<br>Track work modification, add one 45 car track<br>Temporary Coffer Dam<br>Develoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | · · · · · · · · · · · · · · · · · · · | Est           | 1          | 100,000                                       | 80,000                                      |                                       |                         |                  | 160,000                                                                                                        |            |
| Foundation work for conveyors<br>Oust suppression for belt conveyors<br>Fire protection for conveyors<br>HVAC for track hopper pt and transfer houses<br>Sump pump system at track hopper<br>Holats and rolleys<br>Track work modification, add one 45 car track<br>Temporary Coller Dam<br>Overstering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | Est<br>Est    |            | 40.000                                        | 18,000 200,000                              |                                       |                         |                  | 56,000<br>450,000                                                                                              |            |
| Oust suppression for belt conveyors<br>Fire projection for conveyors<br>HVAG for irack hopper pit and iransfer houses<br>Sump pump system at track hopper<br>Holsts and iralievs<br>Track work modification, add one 45 car track<br>Temporary Coffer Dam<br>Devisioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       | Est           |            | 100.000                                       | 80,000                                      |                                       |                         |                  | 160,000                                                                                                        |            |
| Fire projection for converors<br>HVAC for track hopper pit and transfer houses<br>Sume pump system at track hopper.<br>Holsts and trailers<br>Track work modification, add one 45 car track<br>Temporary Coffer Dam<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | E             |            | 200,000                                       | 80.000                                      |                                       |                         |                  | 260,000                                                                                                        |            |
| HVAC for track hopper pit and transfer houses<br>Sump pump system at track hopper.<br>Hotsts and rolleys<br>Track work modification, add one 45 car track.<br>Temporary Coller Dam<br>Dewstering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | En            |            | 118.000                                       | 118,000                                     |                                       |                         |                  | 236,000                                                                                                        |            |
| Sump pump system at track hopper<br>Holats and trolleys<br>Track work modification, add one 45 car track<br>Temporary Colfer Dam<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |               |            | 200,000                                       | 80,000                                      |                                       |                         |                  | 260,000                                                                                                        |            |
| Holsts and traileys<br>Track work modification, add one 45 par track<br>Temporary Coller Dam<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       | Est<br>Est    |            | 200,000                                       | 20,000                                      |                                       |                         |                  | 70,000                                                                                                         |            |
| Track work modification, add one 45 car track<br>Temporary Coffer Dam<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | Est           |            | 50,000                                        | 20,000                                      |                                       |                         |                  | 70.000                                                                                                         |            |
| Temporary Coffer Dam<br>Dewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2500 UF                               | Est           | 1          | 250,000                                       | 750,000                                     |                                       |                         |                  | 1,000,000                                                                                                      |            |
| Oewatering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       | Est           | 1          | 600,000                                       | 1,042,000                                   |                                       |                         |                  | 1,542,000                                                                                                      |            |
| Equipment To load Shuttle Trains                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | Est           |            | 2,000                                         | 236,000                                     |                                       |                         |                  | 238,000                                                                                                        |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |               |            |                                               |                                             |                                       |                         |                  |                                                                                                                | 5,371,0    |
| Excevation for recision hopper pit foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ,                                     | Est .         | 1          | Ó                                             | 300,000                                     |                                       |                         |                  | 300,000                                                                                                        |            |
| Concrete work for RECLAIM hopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       | Est           |            | 300,000                                       | 120,000                                     |                                       |                         |                  | 420,000                                                                                                        |            |
| Hopper and grizzly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       | Est           |            | 150,000                                       | 60,000                                      |                                       |                         |                  | 210,000                                                                                                        |            |
| Belt feeder<br>Concrete work for conveyor / tunnel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 Ench                                | Est<br>Eul    |            | 120,000                                       | 48,000                                      |                                       |                         |                  | 168,000                                                                                                        |            |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-E1 FIPUG'S 1<sup>\*\*</sup> REQUEST FOR POD

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 21 OF 44

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| Larger 4     | IT: 2B-2<br>A Lundy US                                                                     | }                                        | +                   | <u> </u> | ampa Elect                                    | 16                                            | Į                |                   | Estimate No.             |                                | I                                     | _  |
|--------------|--------------------------------------------------------------------------------------------|------------------------------------------|---------------------|----------|-----------------------------------------------|-----------------------------------------------|------------------|-------------------|--------------------------|--------------------------------|---------------------------------------|----|
| Chic         | And                                                                                        |                                          | +                   |          | Big Bend                                      | L                                             | ļ                |                   |                          | 209476-019                     |                                       |    |
| Jint         |                                                                                            |                                          |                     |          | Rall Deliver                                  |                                               | ļ                | I                 | Date                     | Set 1/02                       | 1                                     |    |
|              |                                                                                            | Cast Type:                               |                     | Ori      | ler of Magni                                  | lude                                          |                  |                   |                          |                                |                                       | ٦  |
|              |                                                                                            | Est-Estimated                            | •P                  | RELIMINA | RY AND CO                                     | NFIDENTIAL-                                   | I                | 1                 |                          |                                |                                       | Ч  |
|              |                                                                                            | 8=8id                                    |                     |          |                                               |                                               |                  |                   | Run Date                 | e 9/11/03                      |                                       | -1 |
|              |                                                                                            | OPS-Other Project Bid                    |                     |          |                                               | f                                             |                  |                   | Property                 | 088/34                         |                                       | Ч  |
|              |                                                                                            | OrVender Quete                           |                     |          |                                               |                                               |                  |                   | Reviews                  | PAG                            |                                       | ᅱ  |
|              |                                                                                            |                                          |                     |          |                                               |                                               |                  |                   |                          |                                |                                       | -  |
| Acct.<br>No. | Presieton                                                                                  | Score Definition                         | <u>Cest</u><br>Ivre | Quantity | <u>Total</u><br>Eculament or<br>Material Cost | Total.<br>Construction<br>A.Erection.<br>Cost | Sub-<br>Contract | DOR.<br>(Evraish) | <u>por</u><br>(Installi) | <u>Total</u><br>Projected Cost | Rub-Totala                            |    |
|              | Belt canveyor, 45" wide, 500 ft long                                                       |                                          | Est                 |          | 500,000                                       | 200,000                                       |                  |                   |                          | 200.000                        |                                       | 1  |
|              | ELGeddut bin sinuchire                                                                     |                                          | ÊIJ                 | 1        | 750,000                                       | 300,000                                       |                  |                   | ·                        | 700,000                        |                                       | 4  |
|              | Foundation work for conveyors                                                              |                                          | Êŧ                  | 1        | 30,000                                        | 24,000                                        |                  |                   |                          | 54,000                         |                                       | Ч  |
| <u> </u>     | Dust suppression for ball conveyors<br>Fire protection for conveyors                       |                                          | Ent                 |          | 200,000                                       | 80,000                                        |                  |                   | _                        | 280,000                        |                                       | -  |
|              | HVAC for recision hosper, loadout station                                                  |                                          | Est<br>Est          |          | 25,000                                        | 25,000<br>20,000                              |                  |                   |                          | 50,000                         |                                       | 1  |
|              | HVAG for recisim hosper, loadout station<br>Sump pump system at recisim hopper and loadout | [                                        |                     |          |                                               |                                               |                  |                   |                          | 70,000                         |                                       |    |
| _            | station                                                                                    |                                          | Est                 | 1        | 50,000                                        | 20,000                                        |                  |                   |                          | 70,000                         | ,                                     |    |
|              | Holata and Indiana                                                                         |                                          | Est                 | 1        | 30,000                                        | 12,000                                        |                  |                   |                          | 42,000                         |                                       | 4  |
|              | Loeder / dozer<br>Temporary Coffer Dam                                                     |                                          | <u>Ēst</u>          | 1        | 750,000                                       | 0                                             |                  |                   |                          | 750,000                        |                                       | 4  |
|              | Dewstering                                                                                 |                                          | Est                 | 1 1      | 300,000                                       | 625,000                                       |                  |                   |                          | 925,000                        |                                       | 1  |
|              |                                                                                            |                                          | EH                  | <u>_</u> |                                               | 141,000                                       | ļ                | <u> </u>          |                          | 142,000                        |                                       | 1  |
|              | Electrical - Aux. Power                                                                    |                                          |                     |          |                                               |                                               |                  | {                 |                          |                                |                                       | 1  |
|              |                                                                                            |                                          |                     |          |                                               |                                               | I                | 1                 |                          |                                | 2,329,000                             | J. |
|              | Vacuum Circuit Breaker and Cubicles                                                        |                                          | Est                 | 2        | 270,000                                       | 3,000                                         |                  |                   |                          | 53,000                         |                                       | 4  |
| _            | MCC                                                                                        | includes Switchgear<br>480 V (71 Matans) | EH<br>EH            | 2        |                                               | 28,000                                        |                  |                   |                          | 298,000                        |                                       | 1  |
|              |                                                                                            |                                          |                     |          | 240,000                                       | \$3,000                                       |                  |                   |                          | 303,000                        |                                       | 1  |
|              | Treva                                                                                      | Trays (Transformer Food)                 | Est                 | 2,000    | 60,000                                        | 68,000                                        |                  |                   |                          | 118,000                        |                                       | 1  |
|              | Condulta                                                                                   | Candula (500 LP byp par mutar fand)      | Est                 | 35,500   | 107,000                                       | 308,000                                       |                  |                   |                          |                                |                                       | 4  |
|              | Transformer Feeder Cable                                                                   | VV-00                                    | EN                  | 2,000    | 16,000                                        | 40,000                                        |                  |                   |                          | 413,000                        |                                       | L  |
|              | MV Winng                                                                                   | SHC #2 - SOO LF per maker                |                     | 35,500   | 178,000                                       | 584,000                                       |                  |                   |                          | 56,000                         |                                       | 1  |
| _            |                                                                                            |                                          |                     |          |                                               |                                               |                  |                   |                          | 742,000                        |                                       | 1  |
|              | Electrical Building - Pre Fabricated - Complete                                            | Elevated supports and loundations        | Eat                 | 1        | 200,000                                       | 60,000                                        |                  |                   |                          | 260.000                        |                                       | Ł  |
|              | Conveyor Liphing                                                                           | 2450 (                                   | Est                 |          |                                               |                                               |                  |                   |                          |                                |                                       | Ł  |
|              |                                                                                            | 4040 GF                                  | <u>====1</u>        |          | 40,000                                        | 46,000                                        |                  |                   |                          | 88,000                         |                                       | ſ  |
|              | Control & Instrumentation                                                                  |                                          |                     |          |                                               | ł-                                            |                  |                   |                          |                                |                                       |    |
|              |                                                                                            |                                          |                     |          | 1                                             | i                                             |                  |                   | - 1                      | 1                              | 655,000                               | L  |
|              | DCS Upgrades<br>DCS BOP Egulpment                                                          | 6 VO's per Motor                         | Ext                 |          | 300,000                                       | 300,000                                       |                  |                   |                          | 600,000                        |                                       | Ł  |
|              | DUS BOP Equipment                                                                          |                                          | Ext                 | 11       | 25,000                                        | 300,000                                       |                  |                   |                          | 50,000                         |                                       |    |
|              | Locally Mounted Instruments                                                                |                                          | Est                 |          | 2,000                                         | 4,000                                         |                  |                   |                          | \$,000                         | [                                     |    |
|              |                                                                                            |                                          | l                   |          |                                               |                                               |                  |                   |                          |                                |                                       | 1  |
| 1            | BOP tiems                                                                                  |                                          |                     | - 1      |                                               | 1                                             |                  |                   |                          |                                |                                       |    |
|              | Fire Protection Upgrade                                                                    | 1000 L/                                  | Est                 |          | 95,000                                        | 64,000                                        |                  |                   |                          |                                | . 685,846                             | Ł  |
|              | Demosfleconstruction of Storage Area                                                       | Elevated at +15 (99,000 CY)              | Ex                  |          | N                                             | 30,000                                        |                  |                   |                          | 179,000                        |                                       | i  |
|              | Oemoffleconstruction of Storage Area<br>Storm welet/Coal Ranoff Greding Upprades           | 3000 LF                                  | Ē                   | 1        | 2.000                                         | 8,000                                         |                  |                   |                          | 30,000                         |                                       |    |
|              | Underground Utility Identification and Relocation                                          | Tamps - Allowings                        | Ext                 | 1        | 25,000                                        | 25,000                                        |                  |                   |                          | 8,000<br>50,000                |                                       | ,  |
|              | Rall Bridge Over Water Lives                                                               | 2 - 20" lines                            | Ent                 | 1        | 50,000                                        | 60,000                                        |                  |                   |                          | 130,000                        | · · · · · · · · · · · · · · · · · · · |    |
|              | General Services Interconnection (water & sir, etc.)                                       | Allowance                                | Est                 | 1        | 50,000                                        | 50,000                                        |                  |                   |                          | 100,000                        |                                       | 4  |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\*\* REQUEST FOR POD

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 22 OF 44

Estimate No.: 21223A

Project No.: 09478-019

Run Date: 9/15/93 Proparer: 088/31 Reviewer: PAG

K.

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DOR Tetel finetal® Projected Cost

188,840 181,860

447,000

894,000

21,347,846

included in Material &

Equipment Costs Not Included

21,347,846

iol included 1,494,349

20,006,846

Sub-Totals

1,341,000

21,347,846

21,347,84

2,408,784

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

DOR. (Evmishi

Date: 8111/03

|                                                      | Citics |                                              | Coal Type:                                                            |               | Ord      | er of Magniti                                  | ebe                                                 |                              | Ē  |
|------------------------------------------------------|--------|----------------------------------------------|-----------------------------------------------------------------------|---------------|----------|------------------------------------------------|-----------------------------------------------------|------------------------------|----|
|                                                      |        |                                              | Est-Estimated                                                         |               | EL IMINA | RY AND CON                                     | FIDENTIAL-                                          |                              | 1  |
|                                                      |        |                                              | 0-014                                                                 |               |          | <u> </u>                                       |                                                     |                              | 1  |
| 1                                                    |        |                                              | OPB-Other Project SH                                                  |               |          |                                                |                                                     |                              | -  |
| Ļ                                                    |        |                                              | Orlfender Quels                                                       |               |          |                                                |                                                     | _                            | Г  |
|                                                      |        |                                              |                                                                       |               |          |                                                |                                                     |                              | ſ  |
| i.                                                   |        |                                              |                                                                       |               |          |                                                |                                                     |                              | F  |
|                                                      | Acct.  | Description                                  | <u>Score Definition</u>                                               | Cost.<br>Type | Quantity | <u>Total.</u><br>Equipment or<br>Material Cost | Total,<br>Construction<br><u>A Erection</u><br>Cost | <u>Şub-</u><br>Contract<br>İ |    |
| P                                                    |        |                                              |                                                                       |               |          |                                                |                                                     |                              | ┝  |
|                                                      |        | Adjustment for FL Building Code              |                                                                       | Est           |          |                                                | 168,846                                             |                              | h  |
| I                                                    |        | Steel Cl 7%                                  | Applies to Estimated Blast Cost<br>Applies to Estimated Cancrole Cost | Est           |          | ō                                              | 161,868                                             |                              | Γ  |
|                                                      |        | Concrete & 10%                               |                                                                       |               |          |                                                |                                                     |                              | -  |
|                                                      |        | Sub-Total                                    |                                                                       |               |          | 11,071,000                                     | 8,935,846                                           |                              | -  |
|                                                      |        | Other Costs/Adjustments                      |                                                                       |               |          |                                                |                                                     |                              |    |
|                                                      |        |                                              |                                                                       |               |          |                                                |                                                     |                              | ŀ  |
| 464                                                  |        | Contractor's General & Administrative Costs  | Besed 5% of Equip, Material,<br>and Labor                             |               |          |                                                | 447,000                                             |                              |    |
| Â                                                    |        | Contractor's Profit                          | Based 10% of Equip,<br>Material, and Labor                            | 1             |          |                                                | 894,000                                             |                              |    |
|                                                      |        |                                              |                                                                       | I             |          |                                                |                                                     |                              | ┝  |
| R C C R                                              |        | Total Equipment, Material and Labor<br>Costs |                                                                       |               |          | 11,071,000                                     | 10,276,846                                          |                              |    |
| 6 C H H                                              |        |                                              |                                                                       | <b> </b>      |          | 1                                              |                                                     |                              | Ľ  |
| EXHIBIT<br>JOHN B.<br>DOCKET M<br>PAGE 23            |        | Freight, Duties, Taxes, Elc.                 |                                                                       |               |          | •                                              |                                                     |                              | L  |
| T NO. (<br>. STAMBERG - (<br>NO. 031033-E<br>3 OF 44 |        | Freight-ExtVorks To Sile                     | Included in Material &<br>Equipment Costa                             |               |          |                                                |                                                     |                              |    |
| 4 0 <b>X</b>                                         | h      | Texes - Seles/Use/VAT/Business/Etc.          | Not included                                                          | 1             |          | L                                              |                                                     |                              | F  |
| 4 3 BE                                               |        |                                              |                                                                       |               |          | Į                                              |                                                     | <b> </b>                     | ł- |
| 033<br>033                                           |        | Total Direct Project Costs                   |                                                                       | <u> </u>      |          | 11,071,000                                     | 10,276,846                                          |                              | ŀ  |
| ΨI                                                   |        |                                              |                                                                       |               | ·        | · [                                            |                                                     |                              | r  |
| (JBS-9)<br>- CSXT<br>-EI                             |        | Indirect Costs                               |                                                                       | <b> </b>      |          |                                                | <u> </u>                                            |                              | ┝  |
| X S S                                                |        | Indurance                                    |                                                                       |               |          | 1                                              |                                                     |                              | r  |
| H L                                                  |        | Builders Risk                                |                                                                       | 1             | 1        | 1                                              |                                                     |                              | ſ  |
| (6                                                   | L      | EngineeringFrocurement                       | _1                                                                    |               |          | L                                              |                                                     | · ·                          | -  |

HUMPDONYPROJECT PICEBON FOOD12234\_Big Band 1-2 TPY Cydox\_25-2.44(CBXY Estim privat

EXHIBIT: 28-2

Chicago

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Page 3 of 4

Tampa Electric Big Bend Rall Delivery

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W. Area

|           | •<br>•                                             |                                                                                                                  |               | Ť          | mpa Electric                           | 3 4                                                                         |                         | Ē                       | itimate He.:      | 21222A                  |            |
|-----------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------|------------|----------------------------------------|-----------------------------------------------------------------------------|-------------------------|-------------------------|-------------------|-------------------------|------------|
| iiari     | 1:28-2                                             |                                                                                                                  |               | 'i         | Big Bend                               |                                                                             |                         |                         | Project No.:      | 09476-018               |            |
| eent á    | Lundy LLE                                          |                                                                                                                  |               |            | Rail Delivery                          |                                                                             |                         |                         | Debet             | W1183                   |            |
| Ct ica    |                                                    | for the second second second second second second second second second second second second second second second |               | Ord        | er of Magnitu                          | ebe                                                                         |                         |                         |                   |                         |            |
|           |                                                    | Cost Type:<br>Encologitation                                                                                     | •PI           | ELIMINA    | RY AND CON                             | FIDENTIAL-                                                                  |                         |                         | Run Dete:         |                         |            |
|           |                                                    | D-BId                                                                                                            |               |            |                                        |                                                                             |                         |                         | Preparer:         |                         |            |
|           |                                                    | OPB-Other Project BM                                                                                             |               |            |                                        |                                                                             |                         |                         | Raviewer:         | 240                     |            |
|           |                                                    | Quillender Quete                                                                                                 |               |            |                                        |                                                                             |                         | <del>_</del>            |                   | ·                       |            |
|           |                                                    |                                                                                                                  |               |            |                                        |                                                                             |                         |                         |                   |                         |            |
| <b>FR</b> | Description                                        | Scope Definition                                                                                                 | Cost.<br>Jypa | Quantity   | Total<br>Equipment et<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | <u>Bub-</u><br>Contract | <u>DOR</u><br>(Furnish) | DOR.<br>(Instatt) | Total<br>Projected Cost | Sub-Totata |
|           |                                                    | Project Morrint, Eng and                                                                                         |               | <b> </b>   |                                        |                                                                             |                         |                         |                   | 149,435                 |            |
|           | Temps Electric Interface with A/E                  | Construction Support                                                                                             |               | ┼───       |                                        |                                                                             |                         |                         | T.                | 600,000                 | •          |
|           | Temps Electric Management of EPC Contractor        | Four men for 2 yrs @ \$75K.                                                                                      | · · · · · ·   | <b></b>    |                                        | <b> </b>                                                                    | +                       |                         | 1                 | 163,000                 |            |
|           | Permits and Fees                                   | Tampa                                                                                                            | ļ             | . <b> </b> |                                        | <u> </u>                                                                    | ╂                       |                         |                   |                         |            |
|           |                                                    |                                                                                                                  | Į             |            | <u> </u>                               |                                                                             |                         |                         | 1                 | 2,406,784               | 1          |
|           | Total Indirect Project Costs                       |                                                                                                                  |               | 1          | <b> </b>                               | ļ                                                                           |                         |                         |                   | 1                       |            |
|           |                                                    |                                                                                                                  | <b> </b>      | - <b> </b> |                                        | 1                                                                           |                         | 1                       |                   | Not included            | 0          |
|           | Escalation                                         | Not included                                                                                                     | <b></b>       | - <b> </b> |                                        |                                                                             |                         | 1                       |                   |                         |            |
|           | Escalation                                         |                                                                                                                  |               |            |                                        |                                                                             |                         |                         |                   | 3,108,112               | 3,106,112  |
| _         | EPC Costs                                          | •                                                                                                                |               | .l         |                                        |                                                                             |                         |                         |                   | 1,087,392               |            |
|           | General & Administrative (G&A) (\$ 5% of Direct Co | sta                                                                                                              | 1             |            |                                        |                                                                             | ╺┼╼───                  |                         |                   | 170,783                 |            |
|           | Efficacy insurance (2.8% of Direct Costs           |                                                                                                                  |               | ╺┨────     | -{                                     |                                                                             |                         |                         | 1                 | 1,707,828               |            |
| <u>.</u>  |                                                    | Profit and Home Office                                                                                           | 1             |            |                                        |                                                                             | _                       |                         | <u> </u>          |                         |            |
|           | Fee () 6% of Direct Costs                          | Overhead                                                                                                         | -             |            |                                        |                                                                             | 1                       | 1                       | 1                 | 160,109                 |            |
|           | Performance Bond @ .75% of Direct Costs            |                                                                                                                  |               | ╶┨────     |                                        |                                                                             |                         |                         |                   |                         |            |
| _         |                                                    |                                                                                                                  |               | ╺┨────     | -                                      |                                                                             |                         |                         |                   |                         | 5,372,14   |
|           | Contingency                                        |                                                                                                                  |               |            |                                        |                                                                             |                         |                         |                   | 5,372,148               |            |
|           |                                                    | 20% of overall cost                                                                                              |               |            |                                        |                                                                             |                         |                         |                   | _                       |            |
|           | Contingency                                        |                                                                                                                  |               |            |                                        |                                                                             |                         |                         |                   | Not included            |            |
|           | Interest During Construction (AFUDC)               | Not included                                                                                                     |               |            | _                                      |                                                                             |                         |                         |                   |                         |            |
|           | Interest During Construction (Al OUC)              |                                                                                                                  |               |            |                                        |                                                                             | -1                      |                         |                   | 32,232,890              | 32,232,89  |
|           | Total Project Cost                                 | 1                                                                                                                |               |            |                                        |                                                                             |                         | <u> </u>                | _                 |                         |            |
|           |                                                    |                                                                                                                  |               | F          |                                        |                                                                             |                         |                         | 1                 | 1                       |            |

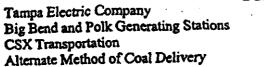
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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 24 OF 44

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SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

# EXHIBIT 2B-3

# BIG BEND 1 TO 2 MILLION TON BUILD IN

# · OPERATING COST CONSIDERATIONS

### <u>Variable</u>

| Power      | \$34,000 - \$68,000 |
|------------|---------------------|
| Surfactant | \$50,000 - \$97,000 |
| Labor      | \$301, <b>3</b> 08  |

Fixed

|              | Lease for Locomotive                    | Not Available |
|--------------|-----------------------------------------|---------------|
|              | Taxes and Insurance (2.085% of Capital) | \$420,400     |
|              | Maintenance (3% of Capital)             | \$605,000     |
| <u>Total</u> | ••••••••••••••••••••••••••••••••••••••  | \$1,492,000   |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 25 OF 44



SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1" REQUEST FOR POD

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# EXHIBIT 2C-1

# TECO BID POLK CAPITAL COSTS

# CSXT ESTIMATE

Shuttle Train Unload System

Tampa Electric Company

Alternate Method of Coal Delivery

CSX Transportation

| Bottom Dump with Conveyor to Silos 1500 TPH | \$1,818,000 |
|---------------------------------------------|-------------|
| 2500' of Track at \$200 foot                | \$500,000   |
|                                             | \$2,318,000 |
| Total                                       |             |

EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 26 OF 44

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### EXHIBIT 2C-2

# POLK BUILD IN SHUTTLE TRAIN UNLOAD

# S&L CAPITAL ESTIMATES

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 27 OF 44

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| Chica   | 7: 2C-2<br>A Lundy <sup>Liè</sup><br>190            |                                       |              |          | <b>Polk Station</b>                           |                                             |                  |                          | Project No.:                          | 04/74.419                      |                                       |
|---------|-----------------------------------------------------|---------------------------------------|--------------|----------|-----------------------------------------------|---------------------------------------------|------------------|--------------------------|---------------------------------------|--------------------------------|---------------------------------------|
| Chies   | 90                                                  |                                       |              |          | IL OLV ORBITAL                                |                                             |                  |                          |                                       | 100.00                         |                                       |
|         |                                                     |                                       |              |          | Rail Dollvery                                 | ,                                           |                  |                          | Deta                                  | 9/11/83                        |                                       |
|         |                                                     | Cost Type:                            |              |          | fer of Magnit                                 |                                             |                  |                          |                                       |                                |                                       |
| _       |                                                     | Est-Estimated                         | -D           |          |                                               | FIDENTIAL.                                  |                  |                          | <u> </u>                              |                                | * ***                                 |
|         |                                                     |                                       |              | T        |                                               |                                             |                  |                          | Ryn Date:                             | Art 4 m 4                      |                                       |
| - 1     |                                                     | 8-814                                 |              |          |                                               |                                             |                  |                          |                                       |                                |                                       |
|         |                                                     | OPB=Other Project Bid                 |              |          |                                               |                                             |                  |                          | Property                              |                                |                                       |
|         |                                                     | Q=Vender Quote                        |              | 1        |                                               |                                             |                  |                          | Reviewer                              | PAQ                            |                                       |
|         |                                                     |                                       |              | ·        |                                               |                                             |                  |                          | [                                     |                                |                                       |
| Net.    |                                                     | <u>Score Definition</u>               | Cost<br>Type | Quantity | <u>Total</u><br>Cauloment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract | <u>DOR.</u><br>(Furnish) | DOR.<br>(Install)                     | <u>Iotal</u><br>Projected Cost | <u>Bub-Totels</u>                     |
|         |                                                     |                                       |              | <u> </u> |                                               |                                             |                  |                          |                                       |                                |                                       |
|         | SHUTTLE TRAIN UNLOADING SYSTEM                      |                                       |              | <b> </b> |                                               |                                             |                  |                          | <b> </b>                              |                                |                                       |
|         | Equipment To Unload Trains (2 1500<br>TPH           | · · · · · · · · · · · · · · · · · · · |              | [        |                                               |                                             |                  |                          |                                       |                                | 6,737,5                               |
|         | Excavation for track hopper pit foundation          |                                       | Est          | 1        | 0                                             | 500,000                                     |                  |                          |                                       | 900,000                        |                                       |
|         | Concrete work for track hopper                      |                                       | Est          | 1        | 400,000                                       | 160,000                                     |                  |                          |                                       | 280,000                        |                                       |
|         |                                                     |                                       | Est          | 1        | 120,000                                       | 48,000                                      |                  |                          |                                       | 108,000                        |                                       |
|         | Track hopper building<br>Car shaker / support steef |                                       | Est          | 1        | 60,000                                        | 24,000                                      |                  |                          |                                       | 174,000                        |                                       |
|         | Hopper and grizzly                                  |                                       | Est          | 1        | 150,000                                       | 60,000                                      |                  |                          |                                       | 160,000                        |                                       |
|         | Track hopper dust suppression                       |                                       | Est          | 1        | 100,000                                       | 40,000                                      |                  |                          |                                       | 160,000                        |                                       |
|         | Belt feeders                                        | 2 EACH                                | Est          | 1        | 120,000                                       | 48,000                                      |                  |                          |                                       | 198,000                        |                                       |
|         | Concrete work for conveyor / tunnel                 |                                       | Est          | 1        | 150,000                                       | 60,000                                      |                  |                          |                                       | 780,000                        |                                       |
|         | Bell conveyor, 48" wide, 600 fi long                |                                       | Eet          |          | 720,000                                       | 578,000                                     |                  |                          | · · · · · · · · · · · · · · · · · · · | 606,000                        |                                       |
| · · · · | Olverter gate on top of silos                       |                                       | Est          |          | 30,000                                        | 12,000                                      |                  |                          |                                       | 112,000                        |                                       |
|         | Transfer conveyor on top of silos, 36° wide, 50 ft  | [                                     | Est          | 1        | 100,000                                       | 40,000                                      |                  |                          |                                       | 90,000                         |                                       |
|         | Modification on top of the silo                     |                                       | Est          | 1        | 50,000                                        | 20,000                                      |                  |                          |                                       | 224,000                        |                                       |
|         | Foundation work for conveyors                       |                                       | Est          | <u> </u> | 200,000                                       | 24,000                                      |                  |                          |                                       | 113,000                        |                                       |
|         | Oust suppression for belt conveyors                 |                                       | Est          | {}       | 33,000                                        |                                             |                  |                          |                                       | 232,500                        | *******                               |
|         | Fire protection for conveyors                       |                                       | Est          |          | 200.000                                       | 80,000                                      |                  |                          |                                       | 130,000                        |                                       |
|         | HVAC for track hopper pit, electrical bidg.         |                                       | Est<br>Est   |          | 50,000                                        | 20,000                                      |                  |                          |                                       | 70,000                         |                                       |
|         | Sump pump system                                    |                                       | Est          |          | 50,000                                        | 20,000                                      |                  |                          |                                       | 70,000                         |                                       |
|         | Highste and Indexs                                  | 2500 L                                | <u> </u>     |          | 250,000                                       |                                             | <b> </b>         |                          |                                       | 500,000                        | ···                                   |
|         | Track work cost<br>Temporary Coller Dam             |                                       | Est          |          | 500,000                                       |                                             |                  |                          |                                       | 1.542.000                      |                                       |
|         | Dewstering                                          |                                       | Est          |          | 2.000                                         | 235,000                                     | f                |                          |                                       | 238,000                        | ····                                  |
|         |                                                     |                                       |              |          |                                               |                                             |                  |                          |                                       |                                |                                       |
|         | Electrical - Aux. Power - 13.8 KV                   |                                       |              |          |                                               |                                             |                  |                          |                                       |                                | 1,510,0                               |
|         | Vacuum Circuit Breaker and Cubicles                 | ·                                     | Est          | 2        | 50,000                                        | 3,000                                       |                  |                          |                                       | 53,000                         |                                       |
|         | 480 V Transformer                                   | Includes Switchgear                   | Est_         | 2        |                                               | 28,000                                      |                  |                          |                                       | 326,000                        |                                       |
|         | MCC                                                 | 440 V (40 Motors)                     | Est          | 3        | 120,000                                       | 32,000                                      |                  |                          |                                       | 152,000                        | ······                                |
|         | Travs                                               | Trays (Transformer Food)              | Ēst_         | 2,000    | 60,000                                        | 58,000                                      |                  |                          |                                       | 118,000                        |                                       |
| ]       | Condults                                            | Candulas (900 LF typ per motor feed)  | Est          | 20,000   | \$0,000                                       | 173,000                                     |                  |                          |                                       | 233,000                        |                                       |
|         | Transformer Feeder Cable                            | MV-00                                 | Est          | 2.000    | 16.000                                        | 40.000                                      |                  |                          |                                       | 58,550                         |                                       |
|         | MV Wing                                             | 3/C #2 - Soo LF per motor             | Est          | 20,000   | 100.000                                       | 318.000                                     |                  |                          |                                       | 416.000                        | · · · · · · · · · · · · · · · · · · · |
|         |                                                     |                                       | _            |          |                                               |                                             |                  |                          |                                       |                                |                                       |
|         | Electrical Building - Pre Fabricated - Complete     | Includes foundation                   | Eal          | 1        | 110,000                                       | 22,000                                      |                  |                          |                                       | 132,000                        |                                       |

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Sec. 41

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>#</sup> REQUEST FOR POD

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EXHIBIT NO. (JES-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 28 OF 44

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|         |                                                                                                              |                                           |               |                | a later a later a                                           |                                                               |                              |                         | timate No.;             | 21224A              |                   |
|---------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------|----------------|-------------------------------------------------------------|---------------------------------------------------------------|------------------------------|-------------------------|-------------------------|---------------------|-------------------|
|         |                                                                                                              |                                           |               | T              | mpa Electric                                                |                                                               |                              |                         | Project He.:            | 00476-019           |                   |
| IBIT:   | 20-2                                                                                                         |                                           |               |                | Polk Station                                                | ł                                                             |                              |                         | Date:                   | 911103              |                   |
| 1999114 | undy ut                                                                                                      |                                           |               | 1              | Rail Delivery                                               |                                                               |                              |                         |                         |                     |                   |
|         |                                                                                                              |                                           |               | And            | as of Magnitud                                              | <u>ie</u>                                                     |                              |                         |                         |                     |                   |
| Chicago |                                                                                                              | least Types                               |               | EL INPINIA     | RY AND CONF                                                 | IDENTIAL-                                                     |                              |                         | Run Date:               |                     |                   |
|         |                                                                                                              | at-Estimated                              | +PR           | <u>ECIMINA</u> |                                                             |                                                               |                              |                         |                         |                     |                   |
|         |                                                                                                              | ießid .                                   |               |                |                                                             |                                                               |                              |                         |                         | HEMBO .             |                   |
|         |                                                                                                              | PB=Other Project Bid                      |               |                |                                                             |                                                               |                              |                         | Reviewer                | PAG                 |                   |
|         |                                                                                                              |                                           | · ·           |                |                                                             |                                                               |                              |                         |                         |                     |                   |
|         | K                                                                                                            | 2-Vender Cuole                            |               |                |                                                             |                                                               |                              |                         |                         |                     |                   |
| ett.    | . Description                                                                                                | Score Definition                          | Cost.<br>Type | Quantity       | <u>Total</u><br><u>Eculoment or</u><br><u>Material Cost</u> | Total<br>Construction<br><u>&amp; Erection</u><br><u>Cost</u> | <u>Bub-</u><br>Contract<br>R | <u>por</u><br>(Furnish) | <u>DOR</u><br>(Install) | <u></u>             | <u>Sub-Totals</u> |
|         |                                                                                                              |                                           |               |                |                                                             | 11,000                                                        |                              |                         |                         | 20,000              |                   |
|         |                                                                                                              |                                           | Est_          | 1              | 9,000                                                       | 11,000                                                        |                              |                         |                         |                     |                   |
| _       | Conveyor Liphing                                                                                             | 450 LF                                    |               |                | ╏                                                           |                                                               | <b> </b>                     | 1                       |                         | - I                 | 333,00            |
| f       |                                                                                                              |                                           |               | T              | ı 1                                                         |                                                               | Į                            | 1                       | Ł                       | 1                   |                   |
| ł       |                                                                                                              | 1 1                                       |               |                |                                                             |                                                               | J                            | 1                       |                         | 260,000             |                   |
| le      | Control & Instrumentation                                                                                    |                                           | Est           | 1              | 140,000                                                     | 140,000                                                       | 3                            | 1                       |                         | 50,000              |                   |
| 1       | 4                                                                                                            | 6 UO's per Motor                          | Est           | 1              | 25,000                                                      | 25,000                                                        | <b></b>                      | t                       |                         | 3,000               |                   |
|         | OCS Upgrades                                                                                                 |                                           | Esl_          | 1              | 1,000                                                       | 2,00                                                          | ′ <b> </b> _                 |                         |                         |                     |                   |
|         | OCS BOP Equipment                                                                                            |                                           |               |                |                                                             |                                                               |                              | ╉╼╼╼╼                   | 1                       |                     | 736,1             |
|         | LOCARY MOUNTED INTERNET                                                                                      |                                           |               |                |                                                             |                                                               |                              | 1                       | 1                       |                     |                   |
|         |                                                                                                              |                                           |               | 1              |                                                             | 42.00                                                         |                              |                         | 1                       | 90,000              |                   |
|         | BOP Nems                                                                                                     |                                           | Est           | 1              | 48,000                                                      | 6,00                                                          | 3                            |                         | -                       | 7,000               |                   |
| _       | the standard in the standard                                                                                 | 500 L*                                    | Est           | ,              | 1,000                                                       |                                                               | ž                            |                         |                         | 491,000             |                   |
|         | Storm wster/Coal Runoff Grading Upgrades                                                                     | 1900 LF                                   | Est           | · ·            | 115,000                                                     | 378.00                                                        | ×I                           |                         |                         | 25,000              |                   |
|         |                                                                                                              | 23 A#94                                   | Est           | 1              | 13,000                                                      | 25,00                                                         | .l                           | -1                      |                         | 50,000              |                   |
|         | Relocation of Westings                                                                                       | Tampa - Allowanca                         | Est           | 1              | 25,000                                                      | 20,00                                                         | ¥                            |                         |                         |                     |                   |
| سنس     | Underground Usiny identification funder & air, etc.)<br>General Services Interconnection (water & air, etc.) | Alowance                                  |               |                |                                                             |                                                               |                              |                         | 1 5                     |                     |                   |
|         | Gine a but the part of the                                                                                   |                                           |               |                |                                                             | 39,37                                                         | <u>st</u>                    |                         |                         | 39,375              |                   |
| _       | Adjustment for FL Building Code<br>Steel 0.7%                                                                | Apples to Estimated Steel Cost            | Est           |                |                                                             | 1                                                             | ö                            |                         |                         | 33,750              |                   |
|         | Steel © 7%                                                                                                   | Applies to Estimated Controle Cost        | Est           |                |                                                             |                                                               | ╩┟╾╍╼╼                       |                         |                         |                     |                   |
|         | Concrete @ 10%                                                                                               |                                           |               |                |                                                             |                                                               |                              |                         |                         | 9,316,625           |                   |
|         |                                                                                                              |                                           |               |                | 4,508,000                                                   | 4,724,87                                                      | ۹<br>                        |                         |                         |                     |                   |
|         | aut. Watal                                                                                                   | 1                                         |               |                |                                                             | [                                                             |                              |                         |                         |                     |                   |
|         | Sub-Total                                                                                                    |                                           |               |                |                                                             |                                                               | -                            |                         |                         |                     | 708,0             |
|         |                                                                                                              |                                           |               |                |                                                             | · · · · · · · · · · · · · · · · · · ·                         |                              |                         |                         |                     |                   |
|         | Other Costs/Adjustments                                                                                      |                                           | ┛             |                |                                                             |                                                               | _                            |                         |                         |                     |                   |
|         | Other Costanni,                                                                                              |                                           | ┦───          |                |                                                             | 1                                                             |                              | L                       |                         | 1                   |                   |
|         | Contractor's General & Administrative Costs                                                                  | Based 5% of Equip, Material,<br>and Labor |               |                |                                                             | 238,0                                                         | 00                           |                         |                         | 236,000             |                   |
|         |                                                                                                              |                                           |               |                |                                                             | 1                                                             | 1                            | 1                       | 1                       | 8 .                 | Į                 |
|         |                                                                                                              | Based 10% of Equip.                       | 1             |                |                                                             | 1                                                             | I                            |                         | 1                       | +                   |                   |
|         |                                                                                                              | Hased to to be Equip.                     | 1             | 1              | 1                                                           | 472.0                                                         | ~                            |                         | - H                     | 472,000             | ·                 |
|         | Contractor's Profit                                                                                          | Material, and Labor                       |               |                |                                                             | 4/2,9                                                         | ≌                            |                         | _                       |                     |                   |
|         |                                                                                                              |                                           | -1            |                |                                                             |                                                               |                              |                         |                         |                     | 1                 |
|         |                                                                                                              |                                           |               |                |                                                             | 0 5,432,8                                                     | 75                           |                         | ł                       | 10,024,62           | 10,024,           |
|         | Total Equipment, Material and Labor                                                                          |                                           | 1             |                | 4,508,00                                                    | 0,3,434,0                                                     | "                            |                         |                         |                     |                   |
|         |                                                                                                              | I                                         |               |                |                                                             |                                                               |                              |                         |                         |                     |                   |
| 1       | Costs                                                                                                        |                                           |               | _              |                                                             | -                                                             |                              |                         | _                       |                     |                   |
|         |                                                                                                              |                                           |               | _              |                                                             |                                                               |                              |                         |                         |                     | 1                 |
| 4       |                                                                                                              |                                           |               | 1              | 1                                                           | ł                                                             |                              |                         |                         | سيوجي المحيد المحيد |                   |
|         | Freight, Duties, Taxes, Etc.                                                                                 |                                           |               |                |                                                             |                                                               |                              |                         |                         |                     |                   |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 29 OF 44

Estimate No.: 21224A Tampa Electric Project No.: 05478-818 Polk Station EXHIBIT: 2C-2 Date: \$111/03 ue Rail Delivery Sargent & Lundy Order of Magnitude •PRELIMINARY AND CONFIDENTIAL-Chicago Cent Type: Run Date: \$111/03 Est-Estimated Preparer: GBB/SM g-Qid Reviewer: PAG OPB-Other Project Bid Orlynader Quete Total Sub-DOR. (Install) Total. Total Equipment of DOR Sub-Totals Construction Contract Cost. Type Protected Cost **Ourantity** (Furnish) & Erection. Scope Definition Acct. Material Cost 1 Description Cost included in Material & Equipment Included in Material & Costs Not included Freight-ExWorks To Site Equipment Costs Not Included Taxes - Sales/Use/VAT/Business/Elc. 10.024,625 10,024,625 5,432,875 4,508,000 Total Direct Project Costs 1,364,896 Indirect Costs Not Included 701.724 Builders Risk Engineering/Procurement 70,172 Project Mgmni, Eng and Tampa Electric Interface with A/E Construction Support 300.000 Two, men for 2 yrs @ \$75K. Tampa Electric Management of EPC Contractor 293,000 Tampa Pormits and Faes 1,364,896 Total Indirect Project Costs Not Included Not included Escalation 1,458,583 1,458,583 501,231 EPC Costs 80,197 General & Administrative (G&A) @ 5% of Direct Costs Efficacy insurance () .5% of Direct Costs 601,970 Profit and Home Office Fee @ 5% of Direct Costs Overhead 75,165 Performance Bond @ .75% of Direct Costs 2,569,621 2.569,62 Contingency 20% of overall cost Contingency

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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EXHIBIT NO. (JB: JOHN B. STAMBERG - CS) DOCKET NO. 031033-EI PAGE 30 OF 44 (JBS-9) CSXT

|              | ·                                    | · · · ·               |               |           | impa Electri                                                |            |                              | E                       | densis No.:             | 21224A                         |                   |
|--------------|--------------------------------------|-----------------------|---------------|-----------|-------------------------------------------------------------|------------|------------------------------|-------------------------|-------------------------|--------------------------------|-------------------|
| EXHIBI       | F: 2C-2                              |                       |               |           | Polk Station                                                | ×          |                              | •                       | Project No.:            | 09478-019                      |                   |
| CARLER       | Lundy LI                             |                       |               |           | Rail Delivery                                               |            |                              |                         | Dete:                   | W11/03                         |                   |
| Chief        |                                      |                       | 1             |           | er of Magnit                                                |            |                              |                         |                         |                                |                   |
| Gille        |                                      | Cost Type:            |               | Urd       | er of Magnit                                                | FIDENTIAL  |                              |                         |                         |                                |                   |
|              |                                      | EstrEstimated         | - <u>Pl</u>   | RELIMINA  | RT AND CON                                                  | TUCITION   |                              |                         | Run Dete:               | er11/03                        |                   |
| ┝────┦       |                                      | 0-814                 |               |           |                                                             |            |                              |                         | Proparer                | 069/\$%                        |                   |
|              |                                      | OPB-Other Project Bid |               |           |                                                             |            |                              |                         | Reviewer                | PAG                            |                   |
|              |                                      | GeVendor Quote        |               | <b> </b>  |                                                             |            |                              |                         |                         |                                |                   |
|              |                                      |                       |               | ļ         |                                                             |            |                              |                         |                         |                                |                   |
|              |                                      |                       | ┼╼╼╼╼         |           |                                                             | Total      |                              |                         | ł.                      | 1                              | •                 |
| Acct.        | Description                          | Scope Definition      | Cost.<br>Ives | Quentity  | <u>Tetal</u><br><u>Eculoment or</u><br><u>Material Cost</u> |            | <u>Sub-</u><br>Contract<br>2 | <u>DOR</u><br>(Fumish)  | <u>por</u><br>(install) | <u>Total</u><br>Projected Cost | <u>Sub-Tetals</u> |
| Acct.<br>No. |                                      |                       | Cost.<br>Type | Quantity  | Equipment of                                                | & Erection |                              | <u>DOR</u><br>(Furnishi | <u>por</u><br>(instail) | Total<br>Projected Cost        | <u>Sub-Tetals</u> |
|              |                                      | Score Definition      | Cost.<br>Ive  | Quantitix | Equipment of                                                | & Erection |                              | <u>DOR</u><br>(Fumish)  | <u>por</u><br>(instail) | Projected Cost                 |                   |
|              | Interest During Construction (AFUDC) |                       | Cost.<br>Ivet | Quantity  | Equipment of                                                | & Erection |                              | <u>DOR</u><br>(Furnish) |                         | Projected Cost                 |                   |
|              |                                      |                       | Cost.<br>Ivet | Quantity  | Equipment of                                                | & Erection |                              | DOR<br>(Furnish)        |                         | Projected Cost                 |                   |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 31 OF 44

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TAMPA ELECTRIC COMPANY DOCKET NO: 031033-EI FIPUG'S 1" REQUEST FOR POD

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### EXHIBIT 2C-3

### OPERATING COST ESTIMATE FOR POLK BUILD IN SHUTTLE DELIVERY

| Variat  | <u>ole</u>                               |                |
|---------|------------------------------------------|----------------|
|         | Power <sup>(1)</sup>                     | \$20,000       |
|         | Chemical for Dust Control                | \$50,000       |
| Fixed   |                                          |                |
|         | Labor                                    | \$601,088      |
| •       | Maintenance (3% Capital Cost)            | \$300,700      |
|         | Lease on Locomotive                      | /Not Available |
|         | Taxes and Insurance (1.58% Capital Cost) | \$158,400      |
| Total ( | Operating Cost Per Year                  | \$1,130,000    |
|         |                                          |                |

<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 32 OF 44



Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### EXHIBIT 2D-1

# POLK DIRECT DELIVERY - ROTARY DUMP SCENARIOS

S&L INDEPENDENT ESTIMATES

EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 33 OF 44

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Page 1

Tampa Electric Retimate Neur 21225A EXHIBIT: 20-1 reject No.: 09475-019 Polk Station Surgent & Lundy LLC Date: 9/11/03 Rail Delivery Chicago Order of Magnitude Cost Type: Est-Esthanted Run Date: 5/11/03 Property: GBB/SH oPS-Other Project Bid Reviewer, PAG Q-Vender Quole Total Total. <u>8ub-</u> DOR <u>Cost</u> Type Construction DOR Tota) Eavlament or Sub-Totels Acst. Quantity Contract Scope Definition Description & Erection (Eumish) (instati) **Projected Cost** Material Cost 1 Cost **ROTARY DUMPER AT PLANT - 2,500** TPH 22,141,000 Equipment To Unload Trains 1,300,000 680,000 160,000 Excevation for rotary car dumper foundation Est 4 1,700,000 400,000 200,000 100,000 Est oncrete work for rolary car dumper / positioner tumper building including control room • Est Est • lopper and grizzly Sumper dust suppression 1,100,00 Est 1 Rotary car dumper 1,100,000 1,100,000 400,000 100,000 150,000 150,000 100,000 100,000 Est 1 Positioner Beit feeders Est Est on recers Concrete work for conveyor / tunnel let conveyor, 60° wide, 500 ft long lorege dome, 15,000 tons 1 Est • Est Est 1 Foundation for storage dome covering well halde dome Excevation for reclaim hopper pil foundation Concrete work for reclaim hopper Est Ŧ 40,000 300,000 120,000 60,000 48,000 40,000 Est 1 500,000 Ŧ 150,000 210,00 Hopper and grizzly Belt feeder Est 1 Est 2 Each 1 Sencrete work for conveyor / turnel belt conveyor, 48° wide, 1000 ft long Sverter gete on top of ellos Esi 140,00 100,00 1 1,000,000 Est 400,000 12,000 40,000 20,000 24,000 80,000 75,000 80,000 20,000 800,000 1,400,00 1 Eat 1 140.00 Transfer conveyor on log of sitos, 48° wide, 50 ft Modification on log of the sito Ēų 1 50,000 30,000 200,000 76,000 70,000 54,000 260,000 150,000 Est Est Est t Foundation work for conveyors Dust suppression for bell conveyors Fire protection for conveyors 1 E4 1 750,000 50,000 50,000 50,000 750,000 1,300,000 260,000 70,000 70,000 Ent HVAC for dumper pit and transfer house 1 Est 1 Sump pump system Holets and irollays Est T 1,600,000 750,000 4,010,000 En Ŧ 8000 UF Loop track cost Loeder / dozer Ett 1 2,710,000 Ext 1. emporary Coller Dam Ent 1 5,000 617,000 Dewalering. 1,748,000 Electrical - Aux, Power - 13.8 KV

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HINGSONFINGLECTERGIESCH FEDG12254, Pub Dinst Ratry Durger 2558, 3D-1. MCBST Baine Rivlad BY VII

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EXHIBIT NO. JOHN B. STA DOCKET NO. PAGE 34 OF

STAMBERG - CS NO. 031033-EI OF 44

(JBS-9) CSXT

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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|         |                                                                             |                                                                       |              | Ť        | impa Electric                                  |                                             |                              | Ē                 | dinuta No.2      |                                                                                                                 |                   |
|---------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|----------|------------------------------------------------|---------------------------------------------|------------------------------|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|
| HIBIT:  | 2D-1                                                                        |                                                                       |              |          | Polk Station                                   |                                             |                              |                   | Project Ne.:     |                                                                                                                 |                   |
| and a f | Lundy                                                                       |                                                                       |              |          | Rall Delivery                                  |                                             |                              |                   | Date:            | 1/11/03                                                                                                         |                   |
| Chicag  |                                                                             |                                                                       |              |          |                                                |                                             |                              |                   |                  |                                                                                                                 |                   |
| Cincord | 0                                                                           | Cast Type:                                                            |              | Ord      | er of Magnitu                                  |                                             |                              |                   |                  |                                                                                                                 |                   |
|         |                                                                             | EntoEntimated                                                         | -PF          | LELIMINA | RY AND CON                                     | FIDENTIAL                                   |                              |                   | Run Date:        | 011/03                                                                                                          |                   |
|         |                                                                             | -814                                                                  |              |          |                                                |                                             |                              |                   | Property.        | the second second second second second second second second second second second second second second second se |                   |
|         |                                                                             | OPB-Other Project Bid                                                 |              |          |                                                |                                             |                              |                   | Reviewer         |                                                                                                                 |                   |
|         |                                                                             | OrVender Quele                                                        |              |          |                                                |                                             |                              |                   | Reviewer         | PAQ                                                                                                             |                   |
|         |                                                                             |                                                                       |              |          |                                                |                                             |                              |                   |                  | -                                                                                                               |                   |
| vost.   | Description                                                                 | Scope Definition                                                      | Cost<br>Type | Quantity | <u>Total.</u><br>Eculoment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract<br>1 | DOR.<br>(Furnish) | DOR<br>(Install) | <u>Total.</u><br>Prolected Cost                                                                                 | <u>Sub-Totala</u> |
|         |                                                                             |                                                                       |              |          | 50,000                                         | 3,000                                       |                              |                   |                  | 53,000                                                                                                          |                   |
|         | Vacuum Circuit Breaker and Cubicles                                         |                                                                       | <u> </u>     | 2        | 50,000<br>300,000                              | 28,000                                      |                              |                   |                  | 328,000                                                                                                         |                   |
|         | 100 V Transformer                                                           | Includes Buildingsor                                                  | <u>Est</u>   | ┟──┼──   | 160,000                                        | 42,000                                      |                              |                   |                  | 202,000                                                                                                         |                   |
|         | MCC                                                                         | 410 V (50 Motern)                                                     |              | ┢────    |                                                |                                             |                              |                   | <b> </b>         | 118,000                                                                                                         |                   |
| f*      |                                                                             | Trays (Transformer Feed)                                              | Est          | 2,000    | 60,000                                         | 58,000                                      |                              |                   | ╂╼┅──            |                                                                                                                 |                   |
|         | Trays                                                                       |                                                                       | Eet          | 25,000   | 75.000                                         | 216,000                                     |                              |                   | 1                | 291,000                                                                                                         |                   |
|         | Conduits                                                                    | Conduite (500 LP typ per mater feed)                                  |              |          | 16.000                                         | 40.000                                      |                              | 1                 |                  | 58,000                                                                                                          |                   |
|         | Transformer Feeder Cable                                                    | L(V-40                                                                | Est          | 2,000    | 125,000                                        | 398,000                                     | <b></b>                      |                   |                  | 523,000                                                                                                         |                   |
|         | NV With:                                                                    | SIC #2 - SOO LF per motor                                             | Est          |          |                                                |                                             | 1                            |                   |                  |                                                                                                                 |                   |
| _       |                                                                             |                                                                       | Est          |          | 110.000                                        | 22,000                                      |                              | I                 | <b></b>          | 132,000                                                                                                         |                   |
|         | Electrical Building - Pre Fabricaled - Complete                             | includes loundations                                                  |              |          |                                                |                                             |                              | <u></u>           |                  | 45,000                                                                                                          |                   |
|         |                                                                             | 1509 L.F                                                              | Est          | 1        | 21,000                                         | 24,000                                      | ļ                            |                   | -{               |                                                                                                                 |                   |
|         | Conveyor Lighting                                                           |                                                                       |              |          |                                                |                                             |                              |                   |                  |                                                                                                                 | 406,              |
|         | Control & Instrumentation                                                   |                                                                       | EN           | -l       | 175,000                                        | 175,000                                     |                              |                   | <u> </u>         | 350,000                                                                                                         |                   |
|         | DCS Upgrades                                                                | 6 VO's per Motor                                                      | EN           | ┥╾╍┧╼╍╍  | 25,000                                         | 25,000                                      |                              |                   | -                | 6,000                                                                                                           |                   |
|         | OCS BOP Equipment                                                           |                                                                       | Est          | 1        | 2,000                                          | 4,00                                        | <u>}</u>                     | . <b> </b>        |                  |                                                                                                                 | <u>}</u>          |
|         | Locally Mounted Instruments                                                 |                                                                       | <u> </u>     |          |                                                |                                             | .                            |                   |                  |                                                                                                                 |                   |
|         | BOP liems                                                                   |                                                                       |              |          |                                                | İ                                           |                              | <u> </u>          |                  |                                                                                                                 | 1,360             |
|         |                                                                             | 200 LF                                                                | Est          | 1 1      | 48,000                                         | 42,00                                       | 3                            |                   |                  | 7,000                                                                                                           |                   |
|         | Fire Protection Upgrade                                                     | 11900 UF                                                              | Eu           |          | 1,000                                          | 6,00<br>703,00                              | <b>4</b>                     | ·}                |                  | 918.000                                                                                                         |                   |
|         | Storm water/Coal Runoff Grading Upgrades                                    | 43 Agree                                                              | E#           |          | 215,000                                        |                                             |                              | ·                 | -1               | 25.000                                                                                                          | ×                 |
|         | Relocation of Wetlands<br>Underground Utility Identification and Relocation | Temps - Alowance                                                      | Est          |          | 13,000                                         |                                             | ă <b>——</b> —                | 1                 |                  | 50,000                                                                                                          | 2                 |
|         | General Services Interconnection (water & sir, etc.)                        | Altowance                                                             | Est          | 1        |                                                | 1                                           |                              |                   |                  |                                                                                                                 |                   |
|         |                                                                             |                                                                       | .[           |          | -1                                             |                                             |                              |                   |                  |                                                                                                                 | J                 |
|         | Adjustment for FL Building Code                                             |                                                                       | Est          | -        |                                                | 145,67                                      | Ō                            |                   |                  | 145,670                                                                                                         |                   |
|         | Steel Q 7%                                                                  | Applies to Estimated Start Cost<br>Applies to Estimated Concrete Cost |              | ┤──┆─    | 1                                              | 124,86                                      |                              |                   | _                | 124,860                                                                                                         | ·                 |
|         | Concrete @ 10%                                                              | Names In Familian Co.c.                                               | ┼────        | -        | 1                                              |                                             |                              | _]                |                  | _{                                                                                                              | +                 |
|         |                                                                             |                                                                       | ·}           |          | 13,331,000                                     | 12,324,53                                   | 0                            | 1                 | · I              | 25,655,530                                                                                                      | ų –               |
|         | Sub-Total                                                                   |                                                                       | .            |          | 13,331,000                                     | 12,024,00                                   |                              | 1                 |                  |                                                                                                                 |                   |
|         | Other Costs/Adjustments                                                     | ·                                                                     |              |          |                                                |                                             |                              |                   |                  |                                                                                                                 | 1,848             |
|         | Confractor's General & Administrative Costs                                 | Based 5% of Equip, Material,<br>and Labor                             |              | -        |                                                | 616,00                                      | •                            |                   | ľ                | 616,00                                                                                                          | 0                 |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\*\* REQUEST FOR POD

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476 EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 35 OF 44

EXHIBIT: 2D-1 Tampa Electric Estimate No.: 21223A Sarpent & Lundy LLC Polk Station Project No.: 09478-818 Chicago **Rall Delivery** Dete: N11/83 Order of Magnitude Cost Type: Est-Estimated -PRELIMINARY AND CONFIDENTIAL-B-Bid OPG-Other Project Bid Pers Delts: \$151/63 Property; GBB/SH **G**-Vender Quete Reviewer: PAG Total. <u>Total</u> Equipment or Material Cost Sub-Acct No. Cost Construction DOR DOR Totel Protected Cost Description Scope Definition Quantity Contract Sub-Totals Type & Erection (Eurnish) Costalli £ Cost Based 10% of Equip, Material, and Labor Contractor's Profit 1,232,000 1,232,000 Total Equipment, Material and Labor 13,331,000 14,172,530 27,503,530 27.503.530 Costs Freight, Duties, Taxes, Etc. included in Included in Material 8. Material & Freight-ExWorks To Site Equipment Costs •• Equipment Costs Not included Taxes - Sales/Use/VAT/Business/Elc. Not included 13,331,000 **Total Direct Project Costs** 14,172,530 27,503,530 27,503,530 Indirect Costs 2,710,772 Builders Risk Not included Engineering/Procurement 1.925.247 Project Mgmnt, Eng and Construction Support Temps Electric Interface with A/E 192,525 Tampa Electric Management of EPC Contractor Two men for 2 yrs @ \$75K. 300.000 Tampe **Permits and Fees** 293.000 **Total Indirect Project Costs** 2,710,772 Escalation Not included Not included EPC Costs 4,001,764 4,001,764 General & Administrative (G&A) @ 5% of Direct Costs 1.375,177

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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EXHIBIT NO. (JB. JOHN B. STAMBERG - CS. DOCKET NO. 031033-EI PAGE 36 OF 44

(JBS-9) CSXT

|              | · ·                                                                                                                                  |                                       |               |          |                                         |                                               |                               |                   |                                       |                         |            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------|----------|-----------------------------------------|-----------------------------------------------|-------------------------------|-------------------|---------------------------------------|-------------------------|------------|
| EXHIBI       | T: 2D-1                                                                                                                              |                                       |               |          | ampa Electri                            |                                               |                               |                   | stimule Hill;                         |                         |            |
| C.A. In C.A. | & Lundy LLC                                                                                                                          |                                       |               |          | Polk Station                            |                                               |                               |                   | Project Ha.:                          |                         |            |
| Chic         |                                                                                                                                      | •                                     |               |          | Rail Delivery                           |                                               |                               |                   | Dalle;                                | sr11/03                 |            |
|              |                                                                                                                                      | Cost Typet                            |               | Ord      | ler of Magnit                           | ude                                           |                               |                   |                                       |                         |            |
|              |                                                                                                                                      | Est-Estimated                         | -PF           | RELIMINA | RY AND COP                              | FIDENTIAL-                                    |                               |                   |                                       |                         |            |
|              |                                                                                                                                      | 1-610                                 |               |          |                                         | · · · · ·                                     |                               |                   | Run Dels:                             |                         |            |
|              | ۲۳۵ ها از انتخب ۳ میند. از بیست و میسید بین است و بین ۲۰۰۰ بینی از ایسی و میسیونی شد.<br>ا                                           | OPB-Other Project Bid                 |               |          |                                         |                                               |                               |                   | Property.                             |                         |            |
|              |                                                                                                                                      | Q-Vender Quole                        |               |          |                                         |                                               |                               |                   | Reviewer:                             | PA0                     |            |
|              | مانست <sup>م</sup> انستان المارية بالمانية المانية بين الماني ومعالية معالية من المانية في المانية من من المسر <u>وسن من ال</u><br>ا |                                       |               |          |                                         |                                               |                               |                   |                                       |                         |            |
|              | Description                                                                                                                          | Scope Definition                      | Cost.<br>Ives | Quentity | Total.<br>Eculament or<br>Material Cost | Total.<br>Construction<br>§ Erection.<br>Cost | <u>Bute-</u><br>Contract<br>R | DOR.<br>(Furnish) | <u>DOR</u><br>(Install)               | Total<br>Projected Cost | Sub-Totata |
|              | Contraction of the of Direct Contra                                                                                                  |                                       |               |          |                                         |                                               |                               |                   |                                       | 220,028                 |            |
| J            | Efficacy insurance @ .8% of Direct Costs                                                                                             | Profit and Home Office                |               |          |                                         |                                               |                               |                   | · · · · ·                             | 2,200,282               |            |
| ŀ            | Fee @ 8% of Direct Costs                                                                                                             | Overhead                              |               |          | l                                       |                                               |                               | . <u></u>         | [                                     |                         |            |
|              | Performance Bond @ .75% of Direct Coels                                                                                              | · · · · · · · · · · · · · · · · · · · |               |          |                                         |                                               |                               | ·                 | [                                     | 208,276                 |            |
|              |                                                                                                                                      |                                       |               |          |                                         |                                               |                               | . <u></u>         | [                                     |                         |            |
|              | Contingency                                                                                                                          |                                       | }             |          |                                         |                                               |                               |                   |                                       |                         | 6,843,213  |
|              | And the second second second second second second second second second second second second second second second                     | 20% of overall cost                   | [             |          |                                         |                                               |                               |                   |                                       | 6,843,213               |            |
| <b></b>      | Conlingency                                                                                                                          |                                       | {             |          | <u>}</u>                                |                                               |                               |                   |                                       |                         |            |
|              | Interest During Construction (AFUDC)                                                                                                 | Not Included                          | <u> </u>      |          |                                         |                                               |                               |                   |                                       | Not included            |            |
| <b></b>      | HILITEST COUNTY CONSTRUCTION COUNTY                                                                                                  |                                       |               |          | [                                       |                                               |                               |                   |                                       |                         | <u> </u>   |
|              | Total Project Cost                                                                                                                   | ·                                     | -             | ł        | ]                                       |                                               |                               |                   |                                       | 41,059,279              | 41,059,279 |
|              |                                                                                                                                      |                                       |               |          |                                         |                                               |                               |                   | · · · · · · · · · · · · · · · · · · · | l                       |            |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 37 OF 44

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EJ FIPUG'S 1\*\* REQUEST FOR POD

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CONFIDENTIAL

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

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Sargent & Lundy"

- SL-008160 Project No. 09476-019 September 18, 2003

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

### EXHIBIT 2D-2

# POLK DIRECT DELIVERY - BOTTOM DUMP SCENARIOS

# S&L INDEPENDENT ESTIMATES

EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 38 OF 44

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|              | IT: 20-2<br>& Lundy LLE                                  |                                        |               | 1        | ampa Electr                            |                                             |                  | <u> </u>         | Estimate No.      | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se | I         |
|--------------|----------------------------------------------------------|----------------------------------------|---------------|----------|----------------------------------------|---------------------------------------------|------------------|------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|              | & LUNDY                                                  |                                        |               | ł        | Polk Station                           |                                             |                  | L                | Project Ne.       | 08478-018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| Child        |                                                          | <u> </u>                               |               |          | Rall Deliver                           |                                             | 1                | · ·              | Dates             | W11/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
|              |                                                          | Cool Type:                             |               |          | der of Magnit                          |                                             |                  |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
| _            |                                                          | Est-Estimated                          | -P            | RELIMINA | RY AND CO                              | NFIDENTIAL.                                 |                  |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
|              |                                                          | e-tid                                  |               |          |                                        |                                             |                  |                  | Sun Date          | Brt 1/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |
|              |                                                          | OPS-Other Project Bid                  |               |          |                                        |                                             | 1                |                  | Presenter         | 0.88/34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              |                                                          | Q=Yender Quete                         |               |          |                                        |                                             | <u> </u>         |                  | Reviewer          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
|              |                                                          |                                        |               |          |                                        | ·                                           |                  |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
| Acci.<br>No. | Description                                              | Score Definition                       | Cost.<br>IVPs | Quentity | Total<br>Equipment or<br>Material Cost | Total<br>Construction<br>A.Erection<br>Cost | Sub:<br>Contract | DOR<br>(Furnish) | DOR.<br>(install) | Total<br>Prolected Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sub-Totel |
|              | BOTTOM DUMPER AT PLANT - 1,500<br>TPH                    |                                        |               |          |                                        |                                             |                  |                  |                   | · .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
|              | Equipment To Unload Trains                               |                                        |               |          |                                        |                                             |                  |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12,741,0  |
|              | Excavation for track hopper pit foundation               |                                        | Est           | 1        | 0                                      | 500,000                                     |                  |                  |                   | 500,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Concrete work for track hopper                           |                                        | Est           | 1        | 400,000                                | 160,000                                     |                  |                  |                   | 560,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Treck hopper building<br>Car shaker / support steel      |                                        | Est           | 1        | 120,000                                | 48,000                                      |                  |                  |                   | 168,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Hopper and grizzly                                       |                                        | Est           |          | \$0,000<br>150,000                     | 24,000                                      |                  |                  |                   | 84,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
|              | Track hopper dust suppression                            |                                        |               |          | 100,000                                | <u>60,000</u><br>40,000                     |                  |                  |                   | 210,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Bell feeders                                             | 2 EACH                                 | Ēst           |          | 120,000                                | 48,000                                      |                  |                  |                   | 140,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Concrete work for conveyor / tunnel                      |                                        | Est           | 1        | 150,000                                | 60,000                                      |                  |                  |                   | 168,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Bet conveyor, 48" wide, 500 ft long                      |                                        | Est           | 1        | 600,000                                | 480,000                                     |                  |                  |                   | 1,060,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
|              | Storage dome, 15,000 tons                                |                                        | Est -         | 1        | 150,000                                | 60,000                                      |                  |                  |                   | 210,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Foundation for storage dome                              |                                        | Est           | 1        | 200,000                                | 80,000                                      |                  |                  |                   | 280,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Lowering well inside dome                                |                                        | Est           |          | 100,000                                | 40,000                                      |                  |                  |                   | 140,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Excercision for recisim hopper pit foundation            |                                        | Est<br>Est    |          | 300,000                                | 300,000                                     |                  |                  |                   | 300,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Hopper and grizzly                                       |                                        | Est           |          | 150,000                                | 120,000                                     |                  |                  |                   | 420,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Beit foeder                                              | 2 EACH                                 | En            | 1        | 120,000                                | 48.000                                      |                  |                  |                   | 210,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Concrete work for conveyor / tunnel                      |                                        | Est           | 1        | 100,000                                | 40.000                                      |                  |                  |                   | 140,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Belt conveyor, 36" wide, 1000 ft long                    | · · · · · · · · · · · · · · · · · · ·  | Est           | 1        | 1,000,000                              | 400.000                                     |                  |                  |                   | 1,400,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
|              | Ofverter gate on top of allos                            |                                        | Est           | 1        | 30,000                                 | 12,000                                      |                  |                  |                   | 42,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ·····     |
|              | Transfer conveyor on top of silos, 36" wide, 50.1        |                                        | Est           |          | 100,000                                | 40,000                                      |                  |                  |                   | 140,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Modification on top of the sito                          |                                        | Est           |          | 50,000                                 | 20,000                                      |                  |                  |                   | 70,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
|              | Oust suppression for bell conveyors                      | }                                      | Est           |          | 30,000                                 | 24,000                                      |                  |                  |                   | 64,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
|              | Fire protection for conveyors                            | ······································ | Est           |          | 200,000                                | 80,000                                      | ł                |                  |                   | 280,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | HVAC for dumper pit end transfer house                   |                                        | Est           |          | 200,000                                | 80,000                                      |                  | i                |                   | 150,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Sumo oumo system                                         |                                        | Est           | 1        | \$0,000                                | 20,000                                      |                  |                  |                   | 280,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Hoists and trolleys                                      | · · · · · · · · · · · · · · · · · · ·  | Ēst           | t        | 50,000                                 | 20,000                                      |                  |                  | ┯┯┿┦              | 70,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| _            | Loop track cost                                          | 6000 LF                                | Est           | 1        | 800,000                                | 800,000                                     |                  |                  |                   | 1,600,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
|              | Loader / doter<br>Temporery Coller Dem                   |                                        | Est.          |          | 750,000                                | 9                                           |                  |                  |                   | 750,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              | Dewstering                                               |                                        | Est<br>Est    |          | 3,000                                  | 1,668,000                                   |                  |                  |                   | 2,468,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| -            | Electrical - Aux. Power - 13.8 KV                        |                                        |               |          |                                        |                                             |                  |                  | =                 | 379,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |
|              |                                                          |                                        | ┝╼┲┯━┻        | [        |                                        |                                             |                  |                  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,748,0   |
|              | Vecuum Circuit Breaker and Cubicles<br>480 V Transformer |                                        | Est           |          | 50,000                                 | 3,000                                       |                  |                  |                   | 53,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| _            |                                                          | Includes Switchgear                    | Eut_          |          | 300,000                                | 28,000                                      |                  |                  |                   | 328,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 39 OF 44

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>\*\*</sup> REQUEST FOR POD

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|--------------|----------------------------------------------------------------------------------------------|--------------------------------------------|----------------------|--------------|-----------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|-------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|              |                                                                                              |                                            |                      |              | mpa Electric                                  | •                                                                       |                                     |                   | Project No.:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
| EXHIBIT      | : ZD-2                                                                                       |                                            |                      |              | Polk Station                                  |                                                                         |                                     |                   |                         | 9/11/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
| targent i    | Lundy LLC                                                                                    |                                            |                      |              | Rall Delivery                                 |                                                                         |                                     |                   | Dista;                  | 5/11/03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
| Chice        | <u>10</u>                                                                                    | cent Type:                                 |                      | Örd          | er of Magnitu                                 | ide i                                                                   |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              |                                                                                              | at-Estimated                               | •PR                  | RELIMINA     | RY AND CON                                    | FIDENTIAL-                                                              |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              |                                                                                              |                                            |                      |              |                                               |                                                                         |                                     |                   | Run Data:               | the second second second second second second second second second second second second second second second s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |
|              |                                                                                              | PB-Other Project Bid                       |                      |              |                                               |                                                                         |                                     |                   | Properar:               | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se |                   |
|              |                                                                                              |                                            |                      |              |                                               |                                                                         |                                     |                   | Reviewer:               | PAQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |
|              |                                                                                              | 2-Vonder Clubio                            |                      |              |                                               | 944 - C                                                                 |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              |                                                                                              |                                            |                      |              |                                               |                                                                         |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
| Acet.<br>No. | Description                                                                                  | Score Definition                           | <u>Cost.</u><br>Type | Quantity     | <u>Total</u><br>Equipment or<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>§ Erection</u><br><u>Cost</u> | <u>Sub:</u><br><u>Contract</u><br>1 | DOR.<br>(Furnish) | <u>por</u><br>(instali) | <u>Total</u><br>Prolected Cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>Sub-Totals</u> |
|              |                                                                                              | 480 V (50 Motors)                          | Est                  | 4            | 160,000                                       | 42,000                                                                  |                                     |                   |                         | 202,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | *****             |
|              | MCC                                                                                          |                                            |                      |              |                                               |                                                                         |                                     |                   |                         | 118,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              |                                                                                              | Trays (Transformer Feed)                   | Est                  | 2,000        | 60,000                                        | 58,000                                                                  |                                     |                   | <u>}</u>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              | Тлеув                                                                                        | Condults (300 LF typ per mater load)       | Est                  | 25,000       | 75,000                                        | 216,000                                                                 |                                     |                   | L                       | 291,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              | Compras                                                                                      |                                            | Est                  | 2,000        | 16,000                                        | 40,000                                                                  |                                     |                   | L                       | 56,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|              | Lisuouna Lagoa Cana                                                                          | MV-80<br>2/C #2 - 800 LF per motor         | Est                  | 21,000       | 125,000                                       | 398,000                                                                 |                                     |                   | {                       | 523,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              | MV Wiring                                                                                    |                                            |                      |              |                                               |                                                                         |                                     |                   |                         | 132.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              | Electrical Building - Pre Fabricated - Complete                                              | Includes foundations                       | Est                  |              | 110.000                                       | 22,000                                                                  |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              | Carcer Onignal a Life Longer of Annual and                                                   |                                            |                      | <del> </del> | 21,000                                        | 24,000                                                                  |                                     |                   |                         | 45,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|              | Conveyor Lighting                                                                            | 1500 LF                                    | Est                  | ┨──────      |                                               |                                                                         |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              |                                                                                              |                                            |                      | 1            | l                                             |                                                                         |                                     |                   | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 406,00            |
|              | Control & Instrumentation                                                                    |                                            | ł                    |              | i                                             |                                                                         |                                     |                   |                         | 350,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              |                                                                                              | 6 VO's per Motor                           | Est                  | 1            | 175,000                                       | 175,000 25,000                                                          |                                     | ļ                 |                         | 50,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|              | OCS Upgrades<br>OCS BOP Equipment                                                            |                                            | Est                  |              | 25,000                                        | 4,000                                                                   | <u> </u>                            |                   |                         | 6,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
|              | Locally Mounted Instruments                                                                  |                                            | Est                  | ·}           | <u></u>                                       |                                                                         |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
|              |                                                                                              | <b></b>                                    |                      |              | ·                                             |                                                                         |                                     |                   | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,250,03          |
|              | BOP Items                                                                                    | 1                                          |                      |              |                                               |                                                                         | 1                                   |                   |                         | 90,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ļ                 |
|              | Mine Diselection   Instabile                                                                 | 500 V                                      | Est                  | 1            | 48,000                                        |                                                                         |                                     |                   |                         | 7,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
|              | Fite Protection Upgrade<br>Storm weter/Coal Funoff Grading Upgrades<br>Relocation of Weterds | 1900 1                                     | Est<br>Est           | 1            | 215,000                                       | 6,000<br>703,000                                                        |                                     |                   |                         | 918 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              | Relocation of Wellands                                                                       | 13 Agres<br>Tanga - Allowance              | Est_                 | ┨━─┼──       | 13.000                                        | 12,000                                                                  | )                                   |                   |                         | 25,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ļ                 |
|              |                                                                                              | Alonance                                   | Est                  | 1            | 25,000                                        | 25,000                                                                  | ·                                   |                   |                         | 50,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|              | General Services interconnection (water & etc.)                                              |                                            |                      |              | 1                                             |                                                                         | Į                                   |                   |                         | -{                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | l                 |
|              | Adjustment for FL Building Code                                                              |                                            |                      |              | ·                                             | 86,170                                                                  | J                                   |                   |                         | 86,170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|              | Steel @ 7%                                                                                   | Apples is Estimated Steel Cost             | Est                  |              | - <del> }</del>                               | 73,060                                                                  |                                     |                   | 1                       | 73,860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|              | Concrete @ 10%                                                                               | Applee to Estimated Concrete Cost          | E31                  |              | · '                                           |                                                                         |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ļ                 |
|              |                                                                                              |                                            |                      |              | 8,379,000                                     | 7,768,030                                                               |                                     |                   | 1                       | 16,145,030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |
|              | Sub-Total                                                                                    |                                            | <u> </u>             | <u> </u>     | 0,312,000                                     | 111001030                                                               |                                     | ·{                |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |
| J            |                                                                                              |                                            |                      |              | . <u> </u>                                    | <u> </u>                                                                |                                     | +                 | 1.                      | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4 400 04          |
|              | and a short that water and a                                                                 |                                            |                      |              | 1                                             |                                                                         | E                                   | 1                 |                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1,165,00          |
| 1            | Other Costs/Adjustments                                                                      |                                            |                      |              | -{                                            |                                                                         |                                     |                   |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | I                 |
|              | Contractor's General & Administrative Costs                                                  | Based 5% of Equip, Naterial,<br>and Labor  | ·                    |              |                                               | 368,000                                                                 | )                                   |                   |                         | 388,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |
|              | Contractor's Profit                                                                          | Based 10% of Equip.<br>Material, and Labor |                      |              |                                               | 777,000                                                                 | ,<br>                               |                   |                         | 777,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ,<br>,            |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\* REQUEST FOR POD

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# EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 40 OF 44

EXHIBIT: 20-2 Tampa Electric Entimate No.: 21226A Sargent & Lundy **Polk Station** Telect He.: 00478-019 Chicago Rall Delivery Onto: MITIDS Order of Magnitude -PRELIMINARY AND CONFIDENTIAL-Ceal Type Est-Estantes 8-8H Run Dets: \$11103 OPB-Other Project Bid Property; GBB/SH OrVender Quela Reviewer: PAQ Total. Total Acri. No. Bub-Cont. Type Construction <u>DOR.</u> Enstall) Description Scope Definition DOR Total Projected Cos Quantity Equipment of entrac Sub-Totale & Erection (Eumish) Material Cost 1 Cest Total Equipment, Material and Labor 8,379,000 8,931,030 17,310,030 17,310,030 Costs Freight, Duties, Taxes, Etc. Included in Material & included in Material & Freight-ExWorks To Sile Equipment Costs Equipment Costs Not included Texes - Sales/Use/VAT/Business/Etc. Not included **Total Direct Project Costs** 8.379.000 8,931,030 17,310,030 17,310,030 Indirect Costs 1,925,872 5 Builders fileA Ì Not included Engineering/Procurement 1,211,702 roject Mgmmi, Eng and Tampa Electric Interface with A/E Construction Support 121,170 **Temps Electric Management of EPC Contractor** Two men for 2 yrs ct \$75K. 300,000 Permits and Fees Tampa 293,000 **Total Indirect Project Costs** 1,925,872 Escalation Not included Not Included EPC Costs 2,518,609 2,518,609 General & Administrative (G&A) @ 5% of Direct Costs 665,502 Efficercy Insurance @ .8% of Direct Costs 138,480 Profit and Home Office Fee Ct 8% of Direct Costs Overhead 1,354,802 Performance Bond @ .75% of Direct Costa 129,825

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1\*\* REQUEST FOR POD

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 41 OF 44

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|-------------|--------------------------------------|-----------------------|---------------------|----------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------|------------|
|             |                                      |                       |                     | T        | ampa Electri                            | C                                                                                                              |                                      | 6                                                                                                               | timate He.:             | 21228A                         |            |
| EXHIBI      | 1 20-2                               |                       |                     |          | Polk Station                            |                                                                                                                |                                      |                                                                                                                 | Project Na.:            |                                |            |
| Sargerit &  | Lundy LLC                            |                       |                     |          | Rall Delivery                           | 2                                                                                                              |                                      |                                                                                                                 | Date:                   | M11/83                         |            |
| Chica       | 00                                   |                       |                     |          | ier of Magnit                           |                                                                                                                |                                      |                                                                                                                 |                         |                                |            |
|             |                                      | Ceel Type:            |                     |          | BY AND COL                              | FIDENTIAL.                                                                                                     |                                      |                                                                                                                 |                         |                                |            |
|             |                                      | ExtrEstingied         |                     | CELIMINA | AT AND CO.                              | THE CONTRACT                                                                                                   |                                      |                                                                                                                 | Run Dete:               | 9411403                        |            |
|             |                                      | 8-8H                  |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 | Property                |                                |            |
|             |                                      | OPBeOther Project Bid |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 | Reviewer:               |                                |            |
|             |                                      | QuVender Quete        |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 | Novienes:               | 7740                           |            |
|             |                                      |                       |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 |                         |                                |            |
|             |                                      |                       |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 |                         |                                |            |
| Acst.<br>Ng | Description                          | Score Definition      | <u>Cost</u><br>Type | Quantity | Total.<br>Equipment or<br>Metarial Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u>                                    | <u>Sath-</u><br><u>Centract</u><br>1 | <u>DOR</u><br>(Fymish)                                                                                          | <u>por</u><br>(install) | <u>Total</u><br>Prolected Cost | Sub-Totals |
|             |                                      |                       |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 |                         |                                |            |
|             |                                      |                       |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 | 1                       |                                | 4,350,902  |
|             | Gentlepenet                          |                       |                     | 1 ·      | <b>j</b>                                |                                                                                                                |                                      |                                                                                                                 |                         |                                | 4,00,802   |
|             | Contingency                          |                       |                     |          |                                         |                                                                                                                |                                      |                                                                                                                 |                         | 4,350,902                      |            |
|             | Contingency                          | 20% of overall cost   |                     | L        |                                         |                                                                                                                | <b></b>                              | <u> </u>                                                                                                        |                         |                                |            |
|             |                                      |                       |                     |          |                                         |                                                                                                                | 1                                    | I                                                                                                               |                         | Not included                   |            |
|             | Interest During Construction (AFUDC) | Not included          | L                   | <u> </u> | I                                       | L                                                                                                              |                                      | {                                                                                                               | l                       |                                | 1          |
|             |                                      |                       |                     |          | <u> </u>                                |                                                                                                                |                                      | I                                                                                                               | <u> </u>                |                                |            |
|             | Total Dealerst Cost                  |                       |                     | 1        | L                                       | 1                                                                                                              | 1                                    |                                                                                                                 |                         | 26,105,414                     | 26,105,414 |
|             | Total Project Cost                   |                       | <u> </u>            | <b>↓</b> | Į                                       |                                                                                                                |                                      |                                                                                                                 |                         |                                |            |
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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 42 OF 44

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

Cost

### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

# EXHIBIT 2D-3

# POLK DIRECT DELIVERY

### CSXT ESTIMATE

### **Build In Strategy**

| Item                                         | Cost        |
|----------------------------------------------|-------------|
| Scenario #1 Rotary Dump at Plant             |             |
| Loop Track                                   | \$1,102,000 |
| Rotary Dumper with Conveyor to Silo 2500 tph | \$3,800,000 |
| New 15,000 Ton Dome                          | \$1,600,000 |
| Total                                        | \$6,502,000 |

# Scenario #2 Bottom Dump at Plant

| Loop Track                                 | \$1,102,000 |
|--------------------------------------------|-------------|
| Bottom Dump with Conveyor to Silo 1500 tph | \$1,818,000 |
| New 15,000 Ton Dome                        | \$1,600,000 |
|                                            | \$4,520,000 |
| Total                                      |             |

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 43 OF 44

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 18, 2003

# TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI FIPUG'S 1<sup>st</sup> REQUEST FOR POD

# EXHIBIT 2D-4

# OPERATING COST ESTIMATE FOR POLK DIRECT RAIL DELIVERY

# <u>Variable</u>

|              | Power <sup>(1)</sup>                      | \$25,000                   |
|--------------|-------------------------------------------|----------------------------|
|              | Surfactant                                | \$50,000                   |
| <u>Fixed</u> |                                           |                            |
|              | Labor                                     | <b>\$</b> 157 <b>,</b> 440 |
|              | Maintenance (3% Capital Cost)             | \$730,500 / \$484,000      |
|              | Lease on Locomotive                       | Not Available              |
|              | Taxes and Insurance (1.584% Capital Cost) | \$385,700/\$255,500        |
| Total        | •••••••••••••••••••••••••••••••••••••••   | \$1,349,000/\$972,000      |

<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-9) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 44 OF 44

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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Sargent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations

CSX Transportation Alternate Method of Coal Delivery

SL-008160

September 4, 2003

Prepared By:

**Reviewed By:** 

Approved By:

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 1 OF 107

### IAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Page

### Sergent & Lundy\*\*\*

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

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| В.  | Big Bend 1 to 2 Million Ton Build In                         | 4   |
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|     | Assumptions                                                  |     |
| IV. | Issues for Further Consideration                             | 8   |
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### EXHIBITS

| Exhibit 2A-1 | Big Bend 2 to 5.5 Million Ton Build In<br>CSXT Cost Estimate for Big Bend 2-5.5 MM Ton Rail Coal Delivery Option |
|--------------|------------------------------------------------------------------------------------------------------------------|
| Exhibit 2A-2 | Big Bend 2 to 5.5 Million Ton Build In<br>S&L Cost Estimate for Big Bend 2-5.5 MM Ton Rail Coal Delivery Option  |
| Exhibit 2A-3 | Big Bend 2 to 5.5 Million Ton Build In<br>Operating Cost Considerations                                          |
| Exhibit 2B-1 | Big Bend 1 to 2 Million Ton Build In<br>CSXT Capital Cost Estimate                                               |
| Exhibit 2B-2 | Big Bend 1 to 2 Million Ton Build In<br>S&L Independent Estimate                                                 |
| Exhibit 2B-3 | Big Bend 1 to 2 Million Ton Build In<br>Operating Cost Considerations                                            |
| Exhibit 2C-1 | Polk Build In Shuttle Train Unload<br>CSXT Capital Estimates                                                     |
| Exhibit 2C-2 | Polk Build In Shuttle Train Unload<br>S&L Capital Estimates                                                      |
| Exhibit 2C-3 | Polk Build In Shuttle Train Unload<br>Operating Cost Considerations                                              |
| Exhibit 2D-1 | Polk Direct Delivery - Rotary Dump and Bottom Dump Scenarios<br>Independent Estimates                            |
| Exhibit 2D-2 | Polk Direct Delivery Rotary Dump and Bottom Dump Scenarios<br>Independent Estimates                              |
| Exhibit 2D-3 | Polk Direct Delivery - Rotary Dump and Bottom Dump Scenarios<br>CSXT Proposal Estimate                           |
| Exhibit 2D-4 | Polk Direct Delivery - Rotary Dump and Bottom Dump Scenarios<br>Operating Cost Considerations                    |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 2 OF 107

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### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy\*\*\*

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

### **Executive Summary**

Sargent & Lundy L.L.C. has reviewed the proposal issued to Tampa Electric by CSX Transportation for alternate method of coal delivery to the Big Bend and Polk Generating Stations. The proposal, dated August 11, 2003, offers conceptual design and cost information to bring coal to the stations by rail direct rather than by the traditional barge transport.

The purpose of the S&L review is to validate the capital cost for each option proposed, to provide differential operating cost estimates for each, and to provide assessment of assumptions made which qualify the bid. The Tampa Electric Fuels Strategy Group will use the results of the S&L analysis to evaluate this option against the other coal transportation bids received.

Although CSXT has done an admirable job in their conceptual plan, in some cases the concept provided would not be feasible in its proposed form. For those cases, we have made the necessary adjustments to the design and have provided costs for the adjusted plan. Specific examples include:

- The limestone unloading facility at Big Bend will not be used for unloading coal by rail. Contamination of the limestone with coal would present several process obstacles with the FGDS and gypsum byproduct.
- New track placement interferes with existing facilities in some areas. The track has been rerouted where necessary to accommodate existing operations.
- The conveyor belt sizing for the 2-5.5 MM ton Big Bend Option is marginal. The estimate provided increases the belt width to 60 inches. A 60-inch conveyor is appropriate for the duty rating expected.

Each case is discussed more fully in the following section of the report.

The cost information provided with the proposal appears to be low in all cases. The costs provided appear to include material and new equipment only. Therefore, the installation cost and costs associated with modification to existing facilities need to be added. The capital cost estimate comparison for each scenario is as follows:

| ·                                      | CSXT Estimate | S&L Estimate |
|----------------------------------------|---------------|--------------|
| Big Bend 2 to 5.5 Million Ton Build In | \$ 10,846,000 | 41,354,394   |
| Big Bend 1 to 2 Million Ton Build In   | \$6,798,000 / | 30, 57, 576  |
| Polk Build In Shuttle Train Unload     | \$ 2,318,000  | 14,910, 143  |
| Polk Direct Delivery - Rotary Dump     | \$ 6,502,000  | 35,226,487   |
| Polk Direct Delivery Rotary Dump       | \$ 4,520,000  | 23,160,079   |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 3 OF 107

I.

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### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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Tampa Electric Company **Big Bend and Polk Generating Stations** CSX Transportation Alternate Method of Coal Delivery

SL-008160 Project No. 09476-019 September 4, 2003

The estimates provided in the rail delivery bids do not take into account the additional operating costs required at each station. Fixed operating cost increases will be required for most of the options included in the bid package because of the additional operating staff that will be required to manage the coal unloading and storage. Variable operating costs will also increase at each station as a result of the additional equipment. Increased electrical load and equipment maintenance costs make up the majority of the variable operating cost estimate.

| · .                                    | <u>Fixed</u><br>Operating Cost         | <u>Variable</u><br>Operating Cost |
|----------------------------------------|----------------------------------------|-----------------------------------|
| Big Bend 2 to 5.5 Million Ton Build In |                                        |                                   |
| Big Bend 1 to 2 Million Ton Build In   |                                        |                                   |
| Polk Build In Shuttle Train Unload     | -                                      |                                   |
| Polk Direct Delivery - Rotary Dump     |                                        |                                   |
| Polk Direct Delivery - Rotary Dump     | ······································ |                                   |

The proposal options offered by CSXT have identified the demurrage rate assumed in each case. In some instances, we believe that the rates provided are more aggressive than can be reasonably achieved. These discrepancies can either be used as a point of negotiation or as a probable cost to Tampa Electric. We have not included demurrage fees in the operating cost estimates but rather provide the data for your use and evaluation during your contract negotiations. 7

|                                        | Demurrage<br>Allowed in Bid | Estimated Unload<br><u>Time Required</u> |
|----------------------------------------|-----------------------------|------------------------------------------|
| Big Bend 2 to 5.5 Million Ton Build In | 4 hour                      | 6                                        |
| Big Bend 1 to 2 Million Ton Build In   | 24 hour                     | 91                                       |
| Polk Build In Shuttle Train Unload     |                             |                                          |
| Polk Direct Delivery Rotary Dump       |                             |                                          |
| Polk Direct Delivery - Rotary Dump     |                             |                                          |

Environmental considerations that need to be addressed in the full evaluation of these coal transportation options include wetlands reconstruction, coal pile runoff, and noise abatement. These issues are discussed at the end of this report.

H.

### **Bid Analysis**

A.

Big Bend 2 to 5.5 Million Ton Build In

requires at least

The conceptual design that is proposed for this option is acceptable with three alterations:

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EXHIBIT NO. (JBS-10)JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 4 OF 107

### DOCKET NO. 031033-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy"

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

The use of the limestone unloading facility for coal unloading is not desirable. 1 Although introducing small amounts of limestone to the coal supply is not a particular problem, introducing small amounts of coal to the limestone supply is indeed a problem. Coal introduced through the FGD system will adversely effect its process design. First, the coal will contaminate the gypsum byproduct that is currently being sold for wallboard manufacture. Second, the coal will contaminate the water reclaimed from the FGD system and will therefore concentrate in the process loop. This will increase the suspended solids in the reclaim water, which is used for mist eliminator washing. Higher suspended solids can result in plugging of the wash nozzles, headers and piping, and in erosion of the mist eliminator vanes. For these reasons, it is not common practice to share unloading of coal with limestone supplies for FGD. The estimate provided herein included provisions to install a new separate coal unloading station due west of the existing limestone unloading station and directly south of the existing FGDS.

2. The 45 car rail spur identified in the proposal for use at the new railcar load-out which transfers coal to be sent to the Polk Station is located within the boundaries of the existing desalinization plant which is owned and operated by ????. It is suggested that this rail spur be moved to the south side of the rail loading facility. This change has been incorporated into the estimate. It represents a minor cost impact.

#### SAM, please provide text on the conveyor width.

The capital cost estimate that is provided with this option appears to be quite low. As illustrated in the executive summary, we would expect the installed cost for this scope of work to be more than double the proposed amount. Although the basis of the estimate is not identified specifically, it would appear that the estimate provided by CSXT in the proposal represents the capital cost for the engineered equipment for coal transport only. Exhibits 2A-1 and 2A-2 are the respective CSXT and S&L cost estimates for Big Bend 2-5.5 MM Ton Rail Coal delivery option.

S&L has assumed that hooded conveyors will be acceptable and permitable for the new conveyors except the transfer conveyor that travels over the intake canal. The transfer conveyor is totally enclosed from the blending bin to the proposed transfer tower. Should environmental permitting require all of the conveyor to be totally enclosed, then the increase to the capital estimate will be approximately \$????????

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

- Fire Loop Extension
- Dust Suppression System
- Repair to Existing On-Site Track
- Modifications to Transfer House T2

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 5 OF 107

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#### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

- Demo/Reconstruct Storm Storage Area
- Re-Grading for Storm Water and Runoff
- Underground Utility Identification and Relocation
- Installation of Rail Bridge Over Water Lines on East Side of Property
- Conveyor Lighting
- Blending Bin Modifications
- Adjustments for High Water Table
- Adjustment for FL Building Code
- Transformers for Electrical Supply
- Double End Bus Substation
- PLC
- Électrical Interconnect
- Services Interconnect (Instrument Air, Service Air, Water)
- Environmental Permitting Evaluation
- Contractor G&A and Fee
- Tampa Electric Overheads

The overhead costs include engineering oversight by the Owner's AE, construction oversight, and Tampa Electric internal project costs.

Operating cost considerations to be included in the overall bid evaluation are tabulated in **Exhibit 2A-3**. The combined fixed and variable operating costs for this option are **\$??????** per year.

#### B. Big Bend 1 to 2 Million Ton Build In

The conceptual design proposed by CSXT is adequate except for the use of the limestone unloading station for coal. We have made the same adjustment to this option as described in the 2 to 5.5 MM Ton Rail Delivery Option described above.

This option introduces some operating constraints that do not otherwise exist. This option provides a radial stacker to stack the coal and does not tie into the existing conveyor systems. This arrangement is adequate for the smaller coal throughput but limits coal storage to one of the three existing coal storage bays. Coal pile management will therefore be more complicated and require more labor to maintain.

The capital cost estimate provided with the CSXT proposal is provided in **Exhibit** 2B-1. Again, the capital costs provided appear to be low compared to the independent total installed cost estimate prepared as part of this evaluation. **Exhibit 2B-2** provides the details of the independent estimate prepared by S&L.

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 6 OF 107

#### TAMITA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

- Fire Loop Extension
- Dust Suppression System
- Repair to Existing On-Site Track
- Demo/Reconstruct Storm Storage Area
- Re-Grading for Storm Water and Runoff
- Underground Utility Identification and Relocation
- Installation of Rail Bridge Over Water Lines on East Side of Property
- Conveyor Lighting
- Adjustments for High Water Table
- Adjustment for FL Building Code
- .• .....Transformers for Electrical Supply
- Double End Bus Substation
- PLC
- Electrical Interconnect
- I/C Interconnect
- Services Interconnect (Instrument Air, Service Air, Water)
- Environmental Permitting Evaluation
- Contractor G&A and Fee
- Tampa Electric Overheads

No modifications to the T2 transfer tower and blending bin are required for this option and we have assumed hooded conveyors are acceptable. The increased cost for totally enclosed conveyors should they be required is \$?????.

Operating cost considerations to be included in the overall bid evaluation are tabulated in Exhibit 2B-3. The combined fixed and variable operating costs for this option are \$?????? per year.

C. Polk Build In Shuttle Train Unload

This design option provided in the CSXT proposal for the Polk Plant is the least expensive and the least intrusive to the current plant operations although coordination with sulfuric acid deliveries will be required.

The independent, estimated total installed cost for this option is \$??????? which is ??% higher than the capital cost identified in the CSXT proposal. Exhibit 2C-1 and Exhibit 2C-2 provide the details of the CSXT and S&L capital estimates respectively.

Currently, sulfuric and deliveries ere by truck, trains may not interfere. \\dms\tampaclectric\09476-019\SL-008160.doc

EXHIBIT-NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 7 OF 107

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#### Sargent & Lundy''

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

CSXT'S SIXTH REQUEST

FOR PRODUCTION OF DOCUMENTS

In addition to the new equipment and installation costs, S&L has included, in the independent estimate, costs for the following support tasks required to complete the scope work.

- Underground Reclaim Hopper
- Bulldozer

of

- Fire Loop Extension
- Dust Suppression
- Repair to Existing On-Site Track
- Modifications to Existing Coal Silo
- Grading for Stormwater/Coal Runoff
- Underground Utility Identification and Relocation
- Wetlands Relocation
- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustments for the High Water Table
- Transformers
- Double End Bus Substation
- I/O Blocks
- Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Contractor G&A and Fee
- Tampa Electric Overheads

Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2C-3. The combined fixed and variable operating costs for this option are \$????? per year.

D. Polk Direct Delivery – Rotary Dump and Bottom Dump Scenarios

The conceptual design of this option proposed by CSXT is adequate. This option introduces coal storage to the Polk station. The domed storage facility minimizes the environmental impact to the station. The loop track provides sufficient storage to prevent obstruction of other plant operations.

The proposal provided by CSXT includes two scenarios for this option. The first uses a rotary car dumper and a coal-unloading rate of xxx ton/hr. The second is similar but uses a bottom dump rail car at a lower unloading rate of yyy ton/hr. We have included

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 8 OF 107

### LUNFIDENTIAL

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sergent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

a car shaker with the bottom dump rail car estimate. The independent estimates prepared for this option are included as Exhibit 2D-1 and Exhibit 2D-2. The CSXT proposal estimate, again lower than the estimated installed costs prepared by S&L, is provided as Exhibit 2D-3.

Items included in the independent total installed cost, in addition to the new equipment, are:

- Underground Reclaim Hopper
- Bulldozer
- Fire Loop Extension
- Dust Suppression
- Repair to Existing On-Site Track
- Modifications to Existing Coal Silo
- Grading, Stormwater/Coal Runoff Modification
- Underground Utility Identification and Relocation
- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustment for High Water Table
- Transformers
- Double End Bus Substation
- I/O Blocks
- Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Wetland Relocation
- Contractor G&A and Fee
- Tampa Electric Overheads

Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2D-4. The combined fixed and variable operating costs for this option are \$????? per year.

### III. <u>Assumptions</u>

- No additional real estate purchase is required for track or relocation of facilities and wetlands.
- No track upgrade or repair is required outside of the plant real estate boundaries.
- Tampa Electric has no provisions for holding second train for CSX.

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 9 OF 107

### LUNFIDENTIAL

### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

#### Sargent & Lundy"

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery \* SL-008160 Project No. 09476-019 September 4, 2003

- Coal unloading is to be performed during day shifts only.
- Primary power for new equipment is available at each for the stations.
- No coal blending is required.
- No allowances or provisions have been included in the cost estimate for schedule constraints (labor overtimes, double shifts, accelerated shipment of equipment or commodities, etc.).
- Project contingency of 20% is required to mitigate the risk on costs due to the short evaluation period.
- The current barge unloading facility will remain operational at the Big Bend Station.
- ... The current truck transfer station will remain operational at the Big Bend Station.
- The current truck unloading facility will remain operational at the Polk Station.

#### **Issues for Further Consideration**

Coal unloading by rail at the Big Bend Station will necessitate blocking Gate 32 for several periods of time during the day. For the 2-5.5 MM ton scenario, we estimate that approximately two trains a day will be received during the week. We would expect that for each train Gate 32 will be blocked about 15 minutes while the train is entering the site, 45 minutes during the unloading of each of the two 45 car segments, and another 15 minutes during the train re-assembly and exit from the plant. This equates to Gate 32 being blocked from access approximately 17% of the day.

SAM, please provide similar input regarding access constraints for each option.

Low frequency noise will be emitted from the locomotives operating on the site. This type of noise is not easily mitigated nor can it be dampened with the construction of berms. If this proposal is considered further, S&L recommends that a noise study be performed for each station.

SAM, have I missed anything else here?

V. <u>References</u>

IV.

- 1) CSX Transportation July 30, 2003 Proposal
- 2) CSX Transportation August 11, 2003 Proposal
- 3) TECO Memorandum, August 29, 2003, D. Konstas
- 4) TECO Email (Painter), Electrical Input, 9/2/03
- 5) TECO Email (Cesar), T&C Inputs, 9/2/03 Alto 490
- 6) TECO Email (Barrette), Reference Drawings, 9/2/03\_\_\_\_
- 7) TECO Email (Painter), Big Bend/Unloading Labor, 9/3/03
- 8) TECO Email (Painter), Revised Capital Cost Factors, 9/3/03
- 9) TECO Email (Painter), Polk/Coal Unloading Labor, 9/3/03
- 10) TECO Email (Painter), Insurance and Tax Rates, 9/2/03

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 10 OF 107

Sargent & Lundy\*\*\*

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST

FOR PRODUCTION OF DOCUMENTS

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 11 OF 107

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

### **EXHIBIT 2A-1**

### BIG BEND CAPITAL COST 2-5.5 MM TONS

| System Rated at 2500 TPH                                        |             |
|-----------------------------------------------------------------|-------------|
| Rapid Discharge System                                          | \$1,600,000 |
| ong Conveyor 3300 ft                                            | \$3,100,000 |
| Short Conveyor 500 ft                                           | \$650,000   |
| Fransfer Station                                                | \$230,000   |
| Three 45 Car Tracks                                             | \$1,200,000 |
| Fruck Dump and Conveyor                                         | \$350,000   |
| Fotal                                                           | \$7,130,000 |
|                                                                 |             |
| Fotal                                                           |             |
| Equipment to Load Shuttle Trains Conveyors and Transfer Station | \$2,250,000 |
| 250 Ton Batch Silo                                              | \$1,066,000 |
| New 45 Car Track                                                | \$400,000   |
| Total                                                           | \$3,716,000 |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 12 OF 107

DOCKET NO. 631033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT ZA-Z S&L Estimate for Bio Berl 2-5.5 MM ZPY OPTIM

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 13 OF 107

| (HIBI     | IT: 2A-2                                                                        |                       |               |          | 1                  | 1                                       | ampa Electri                                  | ic                                            |                              | 6                        | stimate No.:                          | X000X                          |                |
|-----------|---------------------------------------------------------------------------------|-----------------------|---------------|----------|--------------------|-----------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------|--------------------------|---------------------------------------|--------------------------------|----------------|
|           | & Lundy LC                                                                      | 1                     | 1             | l        |                    |                                         | Big Bend                                      |                                               |                              |                          | Project No.:                          | 08476-819                      |                |
| Chie      |                                                                                 |                       | 1             |          | 1                  |                                         | Rail Delivery                                 |                                               |                              |                          | Cale                                  | 9/4/03                         |                |
| GING      | ago                                                                             |                       |               |          | <u> </u>           |                                         |                                               |                                               | · · · · ·                    |                          |                                       | DRAFT                          |                |
|           |                                                                                 | Ceet Type:            | _             |          |                    |                                         | der of Magnit                                 |                                               |                              |                          |                                       |                                |                |
|           |                                                                                 | Est-Estimeted         |               |          | 1                  | -PRELIMINA                              | RY AND CO                                     | NFIDENTIAL-                                   |                              |                          |                                       |                                |                |
|           |                                                                                 | 8-81d                 |               |          |                    |                                         | I                                             |                                               |                              |                          | Run Dete:                             | 8/4/03                         |                |
|           |                                                                                 | OPS-Other Project Bid |               |          |                    |                                         | 1                                             |                                               |                              |                          | Preparer                              | GERIEM                         |                |
|           |                                                                                 |                       |               | ·        | <u> </u>           | ····                                    | <u> </u>                                      |                                               |                              |                          | Reviewer                              |                                |                |
|           | · · · · · · · · · · · · · · · · · · ·                                           | Q=Vender Quete        |               |          | <u> </u>           |                                         | <u> </u>                                      |                                               |                              |                          | TOTAL CONTRACT                        |                                |                |
|           |                                                                                 |                       |               |          |                    |                                         |                                               |                                               |                              |                          | <u> </u>                              |                                |                |
| <u>86</u> | Description                                                                     | Scope Definition      | Cost.<br>Iver | Quantity | Unit of<br>Measure | <u>Unit Equip./ Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br>Material Cost | Total.<br>Construction<br>& Erection.<br>Cost | <u>Sub-</u><br>Contract<br>E | <u>DOR.</u><br>(Furnish) | <u>DOR</u><br>(Install)               | <u>Total</u><br>Prolected Cost | <u>Sub-Tot</u> |
|           | 2 - 5.5 MM TPY OPTION WITH RAPID DIS                                            | CHARGE CARS           |               |          |                    |                                         |                                               |                                               |                              |                          |                                       |                                |                |
|           |                                                                                 | 1                     |               | ····     |                    |                                         | t                                             |                                               |                              |                          |                                       |                                |                |
|           | Equipment To Unload Trains @ 2500<br>TPH                                        | ·                     | -             | ··       |                    |                                         |                                               |                                               |                              |                          |                                       |                                | 15,36          |
|           | Excervation for track hopper pit foundation                                     |                       | Est           | 1        | LS                 | 0.00                                    |                                               |                                               |                              |                          |                                       | 1,000,000                      |                |
|           | Concrete work for track hopper                                                  |                       | Est           | 1        | LS                 | \$00,000.00                             |                                               |                                               |                              |                          |                                       | 1,120,000                      |                |
|           | Track hopper building                                                           | 1                     | Est           | 1        | LS                 | 160,000.00                              |                                               |                                               |                              |                          |                                       | 210,000                        |                |
|           | Hooper and grizzly                                                              |                       | Est           | 1        | L\$                | 200,000.00                              |                                               |                                               |                              |                          | 1                                     | 280,000                        |                |
|           | Track hopper dust suppression                                                   |                       | Est           | 1        | LS                 | 100,000.00                              | 100,000                                       | 40,000                                        |                              |                          |                                       | 140,000                        |                |
|           | Belt feeders                                                                    | 2 Each                | Est           | 1        | LS                 | 200,000.00                              | 200,000                                       | 80,000                                        |                              |                          |                                       | 280,000                        |                |
|           | Concrete work for conveyor / tunnet                                             |                       | . Est         | 1        | LŚ                 | 200,000.00                              | 200,000                                       | 80,000                                        |                              |                          |                                       | 280,000                        | I              |
|           | Belt conveyor, 80" wide, 250 ft long                                            |                       | Est           | 1 1      | LS                 | 800,000                                 | 500,000                                       | 400,000                                       |                              |                          |                                       | 900,000                        |                |
|           | Transfer house                                                                  | 1                     | Est           | 1        | LS                 | 100,000.00                              | 100,000                                       | 40,000                                        |                              |                          |                                       | 140,000                        |                |
|           | Foundation for transfer house                                                   |                       | Est           | 1        | LS                 | 50,000.00                               | 50,000                                        | 20,000                                        |                              |                          | 1                                     | 70,000                         |                |
|           | Belt conveyor, 60" wide, 3200 ft long, hooded<br>conveyor                       |                       | Est           | 1        | LS                 | 490,000.00                              |                                               |                                               |                              |                          |                                       | 4,320,000                      |                |
|           | Transfer house                                                                  |                       | Est           | 3        | LS .               | 300,000.00                              |                                               | 240,000                                       |                              |                          |                                       | 540,000                        | L              |
|           | Foundation for transfer house                                                   |                       | Est           | 1        | LŚ                 | 50,000.00                               | 50,000                                        | 20,000                                        |                              |                          |                                       | 70,000                         | L              |
|           | Belt conveyor to existing transfer house, 60" wide,<br>500 ft long              |                       | Est           | 1        | L8                 | 750,000.00                              | 750,000                                       | 600,000                                       |                              |                          |                                       | 1,350,000                      |                |
|           | Edating transfer house modification house modification                          |                       | Est           | t        | L8                 | 100,000.00                              |                                               | 80,000                                        |                              |                          |                                       | 180,000                        |                |
|           | Foundation work for conveyors                                                   |                       | <u> </u>      |          | 1 <u>18</u>        | 100,000.00                              |                                               | 80,000                                        |                              | J                        | l                                     | 180,000                        |                |
|           | Dust suppression for belt conveyors                                             |                       | Est           | <u> </u> | 1.5                | 200,000,00                              |                                               | 80,000                                        |                              | <b> </b>                 |                                       | 280,000                        |                |
|           | Fire protection for conveyors.<br>HVAC for track hopper pit and transfer houses |                       | Ea            | · · · ·  | <u>₽</u>           | 180,000.00                              |                                               | 160,000                                       | <b> </b>                     |                          | · · · ·                               | 320,000                        |                |
|           | HVAC for track hopper pit and transfer houses                                   | Į                     | Eat           | <u></u>  | 1.5                | 200,000.00                              |                                               | 80,000                                        | I                            |                          | 1                                     | 280,000                        | j              |
|           | Sump pump system at track hopper                                                |                       | Est           | 1        | 1.8                | 50,000.00                               |                                               | 20,000                                        |                              |                          | <u> </u>                              | 70,000                         |                |
|           | Hoists and trolleys                                                             |                       | Est           |          | <u>LS</u>          | 90,000.00                               | 50,000                                        | 20,000                                        | ·                            |                          |                                       |                                |                |
|           | Track work modification - add three 45 car tracks                               | 7500 LF               | Est           | L        | LS                 | 750,000.00                              |                                               |                                               |                              |                          | {                                     | 1,500,000                      | ·              |
|           | Temporary Coffer Dam                                                            |                       | Est           | 1        | LS                 | 500,000.00                              |                                               | 1,042,000                                     |                              |                          |                                       | 1,542,000                      |                |
|           | Dewatering                                                                      |                       | Eat           | 1        | 1.8                | 2,000.00                                | 2.000                                         | 236,000                                       |                              | ···                      | · · · · · · · · · · · · · · · · · · · | 238,000                        |                |
|           | Equipment To load Shuttle Trains                                                | ····                  |               |          |                    |                                         |                                               |                                               |                              |                          |                                       |                                | 6,54           |
|           | Modification at existing bin                                                    | 1                     | Ent           | 1        | 1.5                | 50,000,00                               | 50.000                                        | 20.000                                        |                              |                          |                                       | 70,000                         |                |
|           | Belt feeder                                                                     | <b></b>               | Est           |          | 1.7                | 60,000,00                               |                                               | 24.000                                        |                              |                          |                                       | 84,000                         |                |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 14 OF 107

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DOCKET NO. 631633-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

|     |                                                        |                                      |                     |          |                    |                                       |                                         |                                             |                                       | -                      |                   |                                | 4   |
|-----|--------------------------------------------------------|--------------------------------------|---------------------|----------|--------------------|---------------------------------------|-----------------------------------------|---------------------------------------------|---------------------------------------|------------------------|-------------------|--------------------------------|-----|
| -   | · Description                                          | Scope Definition                     | <u>Cost</u><br>Iype | Quantity | Unit of<br>Measure | <u>Unit Eouin/Mat.</u><br><u>Cont</u> | Total.<br>Sauloment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract<br>1                 | <u>DOR</u><br>(Eumish) | DOR.<br>(Install) | <u>Total</u><br>Projected Cost |     |
| -   | Beit Conveyor to transfer house, 1000 tph, 42" wide,   |                                      | Cal                 | 1        |                    | 1,790,000.00                          | 1,700,000                               | 680,000                                     |                                       |                        |                   | 2,380,000                      | Г   |
|     | 1200 ft long, enclosed conveyor                        |                                      | Est                 | 1        | LS                 | 1,700,000,00                          | 1,700,000                               |                                             |                                       |                        |                   |                                | I   |
|     | Transfer house                                         |                                      | Est                 | 1        | LS                 | 50,000.00                             |                                         | 20,000                                      |                                       | -                      |                   | 70,000                         |     |
|     | Foundation for transfer house                          |                                      | Est                 | 1        | LS                 | 60,000.00                             | 50,000                                  | 20,000                                      |                                       |                        |                   | 70,000                         | L   |
| - 1 | Belt conveyor to load out station, 1000 tph, 42* wide, |                                      | Est                 | 1        | LS                 | 1,000,000,00                          | 1.000.000                               | 400,000                                     |                                       |                        | i                 | 1,400,000                      | Ł   |
| _   | 700 ft iono enclosed convevor                          |                                      |                     | -        |                    |                                       |                                         |                                             |                                       |                        | L                 |                                | L., |
| -   | Londout bin structure                                  |                                      | Est                 | 1        | LS.                | 780,000.00                            | 750,000                                 | 300,000                                     |                                       | · · · · · ·            |                   | 1,050,000                      |     |
| -   | Foundation work for conveyors                          |                                      | E#(                 | 1        | LS<br>LS           | 200.000.00                            |                                         | 80,000                                      |                                       |                        | /                 | 260,000                        |     |
| -   | Dust suppression for beit conveyors                    |                                      | <u> </u>            | 1        | LS<br>LS           | 200,000.00                            |                                         | 80,000                                      |                                       |                        |                   | 260,000                        |     |
| -   | HVAC for transfer house and loadout station            |                                      | Est                 | <u> </u> | 14                 | 50,000,00                             |                                         | 20.000                                      |                                       |                        |                   | 70,000                         |     |
| -   | Sump pump system at loadout station                    |                                      | Est                 | 1        | 1.5                | 60.000.00                             |                                         | 20.000                                      |                                       |                        |                   | 70.000                         | F   |
| -   | Hoists and trolleys                                    |                                      | Est                 | 1        | 18                 | 30,000,00                             |                                         | 12.000                                      |                                       |                        |                   | 42.000                         |     |
| -   |                                                        | 2500 LF                              | Est                 | 1        | uš –               | 250.000.00                            |                                         | 250,000                                     |                                       |                        |                   | 500,000                        |     |
|     |                                                        |                                      |                     |          |                    |                                       | 1                                       |                                             |                                       |                        |                   |                                | Г   |
|     | Electrical - Aux. Power                                |                                      |                     |          |                    |                                       | ·                                       |                                             |                                       |                        |                   |                                | Ĺ   |
|     | Vacuum Circuit Breaker and Cubicies                    |                                      | Est                 | 2        | EA                 | 25,000.00                             |                                         | 3,000                                       |                                       |                        |                   | 53,000                         |     |
|     | 480 V Transformer                                      | Includes Switchgear                  | Est                 | 2        | Ea                 | 135,000.00                            |                                         | 28,000                                      | L                                     |                        | <b></b>           | 298,000                        |     |
|     | MCC                                                    | 480 V (65 Motore)                    | Est                 | 5        | EA                 | 40,000.00                             | 200,000                                 | 53,000                                      |                                       |                        |                   | 253,000                        | L   |
| _   |                                                        |                                      |                     |          |                    |                                       |                                         |                                             |                                       |                        |                   |                                | ┡   |
|     | Trava                                                  | Trays (Transformer Feed)             | Est                 | 2,000    | <u>LF</u>          | 30.00                                 | 60,000                                  | 58,000                                      |                                       |                        | []                | 118,000                        | ┢   |
|     |                                                        | Condults (SOD LF typ per motor feed) | Est                 | 33,000   | LF                 | 3.00                                  |                                         | 285,000                                     |                                       |                        |                   | 384,000                        | i   |
|     | Transformer Feeder Cable                               | MV-40                                | Est                 | 2,000    | LF                 | 8.00                                  |                                         | 40,000                                      |                                       |                        |                   | 56,000                         |     |
| -   | MV Wiring                                              | 3/C #2 - 500 LF per motor            | Est                 | 33,000   | LF                 | \$,00                                 | 165,000                                 | 525,000                                     |                                       |                        |                   | 690,000                        | Ł   |
| 4   | Transformer Firewolls                                  | 2 Transf.                            | ····· Est ···       |          | 17                 | 30.000.00                             | 30.000                                  | 9,000                                       | · · · · · · · · · · · · · · · · · · · |                        | · · · · · · · · · | 39,000                         | F   |
| -   |                                                        | a orantas.                           |                     |          |                    | 30,000.00                             | 30,000                                  | 9,000                                       |                                       |                        |                   | 38,000                         | E   |
| -   | Electrical Building - Pre Fabricated - Complete        | Eleveled supports and foundations    | Est                 |          | LŜ                 | 200.000.00                            | 200.000                                 | 60,000                                      |                                       |                        |                   | 260,000                        | ۴   |
| -   |                                                        |                                      |                     |          |                    |                                       |                                         |                                             |                                       |                        |                   |                                | F   |
|     | Conveyor Lighting                                      | 5850 LF                              | Est                 | 1        | LŚ                 | 81,900,00                             | 82,000                                  | 93,000                                      |                                       |                        |                   | 175,000                        | E   |
|     |                                                        |                                      |                     |          |                    |                                       |                                         |                                             |                                       |                        |                   |                                | Γ   |
|     | Control & Instrumentation                              |                                      |                     |          |                    |                                       |                                         |                                             |                                       |                        |                   |                                | Г   |
|     |                                                        | ·                                    |                     |          | ···                |                                       |                                         |                                             |                                       |                        |                   |                                | İ.  |
|     | DCS Upgrages                                           | 6 I/O's per Motor                    | Est                 | 1.       | 1 <u>8</u>         | 250,000.00                            | 250,000                                 | 250,000                                     |                                       |                        | ·                 | 500,000                        |     |
|     | DCS BOP Equipment                                      |                                      | Est                 |          |                    | 25,000.00                             | 25,000                                  | 25,000                                      |                                       |                        | [                 | 50,000                         |     |
| -   | Locally Mounted Instruments                            |                                      | Êst                 | 1        |                    | 1,500.00                              | 2,000                                   | 4,000                                       | ·····                                 |                        | ┟────┤            | 6,000                          | ┢   |
| -   |                                                        | rest co                              | d<br>Fri-           | -1A      | Page 2 o           | is<br>incen e                         | ,<br>-crue e                            | <u>i</u> ns                                 |                                       |                        |                   |                                |     |
|     | wri requi                                              |                                      | '7-                 | YP       |                    | 15 / V                                |                                         | -, -                                        |                                       |                        |                   |                                |     |

Tampa Electric

Big Bend

Rail Delivery

Order of Magnitude -PRELIMINARY AND CONFIDENTIAL-

DOCKET PAGE 15 15 5 OF (J) (AMBERG - C) 031033-EI 107

(JBS-10) CSXT

|                    |   |                           | Londout bin structure                    |
|--------------------|---|---------------------------|------------------------------------------|
|                    |   |                           | Eoundation work for conveyors            |
|                    |   |                           | Oust suppression for belt conveyors      |
|                    |   |                           | Fire protection for conveyors            |
|                    |   |                           | HVAC for transfer house and loadout g    |
|                    |   |                           | Sump pump system at loadout station      |
|                    |   | <u> </u>                  | Hoists and trolleys                      |
|                    |   | <u> </u>                  | Track work modification,, add one 45 c   |
|                    |   | <b>—</b>                  | Electrical - Aux. Power                  |
|                    |   |                           | Vacuum Circuit Breaker and Cubicies      |
|                    |   |                           | 480 V Transformer                        |
| 일변                 |   |                           | MCC                                      |
| <u>o x</u>         |   |                           |                                          |
| 田田                 |   |                           | Trave                                    |
| EXHIBIT<br>JOHN B. |   |                           | Conduits                                 |
| ωH                 |   |                           | Transformer Feeder Cable                 |
| • 14               |   |                           | MV Wiring                                |
| 10 H               |   |                           |                                          |
| 33                 |   |                           | Transformer Firewols                     |
| 5.                 |   | $\mathbb{Z}^{\mathbb{Z}}$ |                                          |
| NO.<br>STAMBE      | / |                           | Electrical Suliding - Pre Fabricated - C |
| B                  | 1 |                           | Conveyor Lighting                        |
|                    |   |                           |                                          |

EXHIBIT: 2A-2

Chicago

Acat.

Surgent & Lundy LC

Cent Type Est-Cat

OPE-Other Project Eld

Q=Vendor Quete

Estimate No.: XXXXX

Project No.: 09478-019

Run Date: \$14/03 Preparer: QBB/BM

Reviews

Date: \$/4/83

DRAFT

Sub-Totala

2,326,000

556,000

DOCKET NO. 63163-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

**CUNTIDEN HAL** 

|              |                                                                                      |                                            |              |          |                                              |                                         |                                                             | <u>.</u>                                    | ,                     |                                       |                                       | 1                              | <u> </u>          |
|--------------|--------------------------------------------------------------------------------------|--------------------------------------------|--------------|----------|----------------------------------------------|-----------------------------------------|-------------------------------------------------------------|---------------------------------------------|-----------------------|---------------------------------------|---------------------------------------|--------------------------------|-------------------|
| -XIIIII      | T: 2A-2                                                                              | ļ                                          |              |          | <u>                                     </u> |                                         | ampa Electr                                                 |                                             |                       |                                       | stimate No.:                          |                                |                   |
| Bargent      | & Lundy LLC                                                                          |                                            |              |          | ļ                                            |                                         | Big Bend                                                    |                                             |                       |                                       | Project No.:                          |                                |                   |
| Chica        | #g0                                                                                  |                                            |              |          | <b> </b>                                     |                                         | Rail Delivery                                               |                                             |                       |                                       | Date:                                 | N/4/03                         |                   |
|              |                                                                                      | Cest Type:                                 |              |          | L                                            |                                         | ter of Magnit                                               |                                             |                       |                                       | L                                     | DRAFT                          |                   |
|              |                                                                                      | Ent-Entrusted                              |              |          |                                              | -PRELIMINA                              | RY AND COL                                                  | NFIDENTIAL-                                 |                       | L                                     |                                       |                                |                   |
|              |                                                                                      | 8-84                                       |              |          |                                              |                                         |                                                             |                                             |                       |                                       | Run Date:                             | 1/4/83                         |                   |
|              |                                                                                      | OPS-Other Project Bid                      |              |          |                                              |                                         | r                                                           |                                             |                       |                                       | Properat                              | COB/SM                         |                   |
|              |                                                                                      | Q=Vender Quete                             |              |          |                                              |                                         | [                                                           |                                             | [                     | · · · · · · · · · · · · · · · · · · · | Reviewet                              | :                              |                   |
|              |                                                                                      |                                            |              |          |                                              |                                         |                                                             | 1                                           |                       |                                       | · · · · · · · · · · · · · · · · · · · |                                |                   |
| Acct.<br>No. | Description                                                                          | Score Definition                           | Cost<br>Type | Quantity | Unit of.<br>Measure                          | <u>Unit Eaulo / Met.</u><br><u>Cost</u> | <u>Total</u><br><u>Baulpment or</u><br><u>Material Cost</u> | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract<br>2 | <u>DOR</u><br>(Fumish)                | <u>DOR</u><br><u>(Instali)</u>        | <u>Total</u><br>Projected Cost | <u>Sub-Totals</u> |
|              | BOP Items                                                                            |                                            |              |          |                                              |                                         |                                                             |                                             |                       |                                       |                                       |                                | 773,6             |
|              | Fire Protection Upgrade - underground                                                | 1000 LF                                    | Est          | . 1      | LS                                           | 95,000.00                               | 95,000                                                      | 84,000                                      |                       |                                       |                                       | 179,000                        |                   |
|              | Demo/Reconstruction of Storage Area<br>Stormweter/Coal Runoff Grading Upgrades       | Elevated at +15' (99,000 CY)               | Est          | 2        |                                              | 0.00                                    | 0                                                           | 30,000                                      |                       |                                       |                                       | 30,000                         |                   |
|              | Stormweter/Coel Runoff Grading Upgrades                                              | 3000 UF                                    | Est          | 1        | LS                                           | 2,000.00                                |                                                             | 6,000                                       |                       |                                       |                                       | 8,000<br>50,000                |                   |
|              | Underground Utility Identification and Relocation                                    | Tampa - Allowance<br>2 - 27" free          | Est<br>Est   | 1        | 15                                           | 25,000.00                               | 25,000                                                      | 25,000<br>80,000                            |                       |                                       |                                       | 130,000                        |                   |
|              | Rall Bridge Over Water Lines<br>General Services Interconnection (water & air, etc.) | Allowance                                  | Est          | 1        | LS                                           | 50,000.00                               |                                                             |                                             |                       |                                       |                                       | 100,000                        |                   |
|              | Contened Converses and construction (white or her, each                              |                                            | Lot          | <u> </u> |                                              | 20,000.00                               | ·····                                                       |                                             |                       | · · · · · · · · · · · · · · · · · · · |                                       |                                |                   |
|              | Adjustment for FL Building Code                                                      |                                            |              |          |                                              |                                         |                                                             |                                             |                       |                                       |                                       |                                |                   |
|              | Steel @ 7%                                                                           | Applied to Estimated Stati Cost            | Est          | 1        | 15                                           |                                         | 0                                                           | 148,960                                     |                       |                                       |                                       | 148,960                        |                   |
|              | Concrete @ 10%                                                                       | Applied to Estimated Concrete Cost         | Esi          | 1        | LS                                           |                                         | 0                                                           | 127,680                                     |                       |                                       | Į                                     | 127,680                        |                   |
|              |                                                                                      | <u> </u>                                   |              |          | <b> </b>                                     |                                         |                                                             | · · · · · · · · · · · · · · · · · · ·       |                       |                                       |                                       |                                |                   |
|              | Sub-Total                                                                            |                                            |              |          |                                              |                                         | 12,203,000                                                  | 13,358,640                                  |                       |                                       |                                       | 25,561,640                     |                   |
|              | Other Costs/Adjustments                                                              |                                            |              |          |                                              |                                         |                                                             |                                             |                       |                                       |                                       |                                | 2,004,0           |
|              | Contractor's General & Administrative Costs                                          | Based 5% of Equip, Material,<br>and Labor  |              |          |                                              |                                         |                                                             | 668,000                                     |                       |                                       |                                       | 668,000                        |                   |
|              | Contractor's Profit                                                                  | Based 10% of Equip,<br>Meterial, and Labor |              |          |                                              |                                         |                                                             | 1,336,000                                   |                       |                                       |                                       | 1,336,000                      |                   |
|              | Total Equipment, Material and Labor<br>Costs                                         |                                            |              |          |                                              |                                         | 12,203,000                                                  | 15,362,640                                  |                       |                                       |                                       | 27,565,640                     | 27,565,6          |
|              |                                                                                      | (                                          |              |          |                                              |                                         |                                                             |                                             |                       |                                       |                                       |                                |                   |
|              | ······································                                               |                                            |              |          | i                                            |                                         |                                                             |                                             |                       |                                       |                                       |                                |                   |
|              | Freight, Duties, Taxes, Etc.                                                         | 1 · · · ·                                  |              |          |                                              |                                         | 1                                                           |                                             |                       |                                       |                                       | 1 1                            |                   |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 16 OF 107

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

|              | T: 2A-2                                            | l                                              |               |          | <b>.</b>           | 1                                      | ampa Electri                                   | C                                           |                  | e                       | stimate No.:            | 2000                                            |                 |
|--------------|----------------------------------------------------|------------------------------------------------|---------------|----------|--------------------|----------------------------------------|------------------------------------------------|---------------------------------------------|------------------|-------------------------|-------------------------|-------------------------------------------------|-----------------|
| argent       | & Lundy LC                                         |                                                |               |          |                    |                                        | Big Bend                                       |                                             |                  |                         | Project No.:            | 09478-018                                       |                 |
| Chie         |                                                    |                                                | l i           |          | [                  |                                        | Rail Delivery                                  | ,                                           |                  |                         | Dele                    | 9/4/83                                          |                 |
|              | :                                                  | Cest Type:                                     |               |          | <u> </u>           | Or                                     | der of Magnit                                  | ude                                         |                  |                         |                         | DRAFT                                           |                 |
|              |                                                    | Est-Estimated                                  |               |          |                    | -PRELIMINA                             | RY AND CO                                      | FIDENTIAL-                                  |                  |                         |                         |                                                 |                 |
|              |                                                    | B=Bid                                          |               | 1        |                    |                                        |                                                |                                             |                  |                         | Run Dete                | 9/4/03                                          |                 |
|              |                                                    | OPS-Other Project Bid                          |               |          |                    |                                        | ]                                              |                                             |                  |                         | Proparat                | (286/3N                                         |                 |
|              |                                                    | Q=Vendor Quota                                 |               |          |                    |                                        |                                                |                                             |                  |                         | Reviewer                |                                                 |                 |
|              |                                                    |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         |                                                 |                 |
| Acct.<br>No. | Description                                        | Scope Definition                               | Cost.<br>Type | Quantity | Unit of<br>Measure | <u>Unit Equip/ Mat.</u><br><u>Cost</u> | <u>Totai.</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract | <u>DOR</u><br>(Furnish) | <u>DOR</u><br>(înstali) | <u>Total.</u><br>Projected Cost                 | <u>Şub-Tota</u> |
|              |                                                    | Included in Material &<br>Equipment Costs      |               |          |                    |                                        |                                                |                                             |                  |                         |                         | Included in<br>Material &<br>Equipment<br>Costs |                 |
|              | Taxes - Sales/Use/VAT/Business/Etc.                | Not Included                                   |               |          |                    |                                        |                                                |                                             |                  |                         |                         | Not Included                                    |                 |
|              | Total Direct Project Costs                         |                                                |               |          |                    |                                        | 12,203,000                                     | 15,362,640                                  |                  |                         |                         | 27,565,640                                      | 27,565          |
|              | Indirect Costs                                     |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         |                                                 | 2,885           |
|              | Insurance                                          |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         |                                                 |                 |
|              | Builders Risk                                      |                                                | · ·           |          |                    | · · ·                                  |                                                |                                             |                  |                         | <b>I</b>                | Not Included                                    |                 |
|              | Engineering/Procurement                            |                                                |               |          |                    |                                        |                                                |                                             |                  |                         | L                       | 1,929,595                                       |                 |
|              |                                                    | Project Mgmnt, Eng and<br>Construction Support |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 192,959                                         |                 |
|              | Tampa Electric Management of EPC Contractor        | Four men for 2 yrs @ \$75K.                    |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 600,000                                         |                 |
|              | Permits and Fees                                   | Тапра                                          |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 163,000                                         |                 |
|              | Total Indirect Project Costs                       |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 2,885,554                                       |                 |
|              | Escalation                                         | Not Included                                   |               |          |                    |                                        |                                                |                                             |                  |                         |                         | Not Included                                    |                 |
|              | EPC Costs                                          | 1                                              |               |          |                    |                                        |                                                |                                             |                  | ····                    |                         | 4,010,801                                       | 4,010           |
|              | General & Administrative (G&A) @ 5% of Dirct Costs |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 1,378,282                                       |                 |
|              | Efficacy insurance @ .8% of Direct Costs           |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 220,525                                         |                 |
|              |                                                    | Profit and Home Office<br>Overheed             |               |          |                    |                                        |                                                |                                             |                  |                         |                         | 2,205,251                                       |                 |
|              | Performance Bond @ .75% of Direct Costs            | · · · · · · · · · · · · · · · · · · ·          |               |          |                    |                                        |                                                | ************                                |                  |                         |                         | 208,742                                         |                 |
|              | Contingency                                        |                                                |               |          |                    |                                        |                                                |                                             |                  |                         |                         |                                                 | 6,89            |

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DOCKET NO. 431433-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| EXHIB       | IT: 2A-2                             | 1                     | 1            | 1        | 1                  | · · · · ·                        | Tampa Electr                                  |                                                                             |                       |                        | Entimale No.:     | -                        | ·····             |
|-------------|--------------------------------------|-----------------------|--------------|----------|--------------------|----------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|-----------------------|------------------------|-------------------|--------------------------|-------------------|
| Sargent     | L& Lundy LC                          |                       | *            | 1        | 1                  |                                  | Big Bend                                      |                                                                             | <u> </u>              |                        | Project No.:      |                          |                   |
| Chic        |                                      |                       |              | 1        | 1                  |                                  | Rail Deliver                                  | /                                                                           | -                     |                        |                   | 9/4/83                   |                   |
|             |                                      | Casel Type:           |              |          | 1                  | Or                               | der of Magnit                                 |                                                                             |                       |                        |                   | DRAFT                    |                   |
|             |                                      | Est-Estimated         |              |          | T                  | -PRELIMINA                       | RY AND CO                                     | NFIDENTIAL-                                                                 | -                     |                        |                   |                          |                   |
|             |                                      | D-Bid                 |              |          |                    |                                  | T                                             |                                                                             |                       |                        | Run Date:         | 9/4/83                   |                   |
|             |                                      | OPB-Other Project Bid |              |          |                    |                                  |                                               |                                                                             | · · · · · ·           |                        | Preparer:         | 088/8M                   |                   |
|             |                                      | Q=Vender Quote        |              |          |                    |                                  | 1                                             |                                                                             |                       |                        | Reviewer;         |                          |                   |
|             |                                      |                       |              |          |                    |                                  |                                               |                                                                             |                       |                        |                   |                          |                   |
| Aoct.<br>Na | Description                          | Score Definition      | Cost<br>Ives | Quantity | Unit of<br>Measury | <u>Unit Eculo./ Mat.</u><br>Soat | <u>Total</u><br>Equipment or<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | Sub:<br>Contract<br>2 | <u>DOR</u><br>(Fumiah) | DOR.<br>(Install) | Total.<br>Prolected Cost | <u>Sub-Totaja</u> |
|             | Contingency                          | 20% of overall cost   |              |          |                    |                                  |                                               |                                                                             |                       |                        |                   | 8,892,398                |                   |
|             | Interest During Construction (AFUDC) | Not Included          |              |          |                    |                                  |                                               |                                                                             |                       |                        |                   | Not Included             | 0                 |
|             | Total Project Cost                   |                       |              |          |                    |                                  |                                               |                                                                             |                       |                        |                   | 41,354,394               | 41,354,394        |
|             |                                      |                       | 1            |          | [                  |                                  |                                               |                                                                             |                       |                        |                   |                          |                   |

EXHIBIT NO. (JB: JOHN B. STAMBERG - CS) DOCKET NO. 031033-EI PAGE 18 OF 107 (JBS-10) - CSXT

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AMITA ELECTRIC COMPANY DOCKET NO. 631633-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

### **EXHIBIT 2A-3**

### OPERATING COST ESTIMATE FOR 2 - 5.5 MILLION TON RAIL DELIVERY OF COAL BIG BEND STATION

| <u>Variat</u> | <u>ple</u>                         |                       |
|---------------|------------------------------------|-----------------------|
|               | Power <sup>(1)</sup>               | \$68,000 - \$128,000  |
|               | Surfactant                         |                       |
| Fixed         | Labor                              | \$301,308 - \$903,925 |
|               | Labor                              | \$301,308             |
|               | Lease for Locomotive               | 2.085%                |
|               | Maintenance (3% of Installed Cost) | 290,000 Hain!         |

<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 19 OF 107

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy\*\*\*

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

SL-008160 Project No. 09476-019 September 4, 2003

#### **EXHIBIT 2B-1**

### BIG BEND CAPITAL COST 1- 2 MM TON\_ CSXT COST ESTIMATE Big Bend 1 - 2 MM TPY Option (Standard Coal Hoppers) System Rated at 1500 TPH Modify Limestone Pit ..... \$250,000 Long Conveyor \$1,953,000 Transfer Station..... \$230,000 Short Conveyor \$280,000 ; Three 45 Car Tracks \$1,200,000 200' Radial Stacker ..... \$250,000 Truck Dump and Conveyor..... \$350,000 Total ..... \$4,513,000 **Equipment to Load Shuttle Trains** Reclaim Hopper with Feed to Batch Silo. \$469,000 250 Ton Batch Silo \$1,066,000 Loader/Dozer \$750,000 Total..... \$2,285,000 Grand Total \$10,846,000

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 20 OF 107

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

# EXHIBITZB=2 SELESTIMAE for Big Bend 1-2 MMTPY OPTION

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 21 OF 107

|                     | T: 2B-2                                                                           |                                       |               |           |                    | 1                                       | Tampa Electr                                  | ic                                          |                              | 1                                     | etimate No.      | 2000                     |                                       |
|---------------------|-----------------------------------------------------------------------------------|---------------------------------------|---------------|-----------|--------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------|------------------------------|---------------------------------------|------------------|--------------------------|---------------------------------------|
|                     | & Lundy LL2                                                                       |                                       |               | ļ         |                    |                                         | Big Bend                                      |                                             |                              |                                       | Project No.      | 09476-019                |                                       |
| Chic                | <u>sgo</u>                                                                        |                                       |               | Į         |                    |                                         | Rail Delivery                                 | 1                                           | 1                            | _                                     | Data             | #4/03                    |                                       |
|                     |                                                                                   | Cest Type:                            |               |           |                    |                                         | der of Magnit                                 |                                             |                              | <b>_</b> _                            |                  | ORAFT                    |                                       |
|                     |                                                                                   | EstrEstimated                         |               |           | I                  | -PRELIMINA                              | RY AND CO                                     | NFIDENTIAL-                                 |                              |                                       |                  |                          |                                       |
|                     |                                                                                   | 9-8id                                 | <u> </u>      | L         |                    |                                         |                                               |                                             |                              |                                       | Run Dete:        | 9/4/83                   |                                       |
|                     |                                                                                   | OPB-Other Project Bid                 | J             | <u> </u>  | L                  |                                         |                                               |                                             | 1                            |                                       | Preparer         | CORAN                    |                                       |
|                     |                                                                                   | Q=Vender Quete                        | <u> </u>      | L         |                    |                                         |                                               |                                             |                              |                                       | Reviewer         |                          |                                       |
|                     |                                                                                   |                                       |               |           |                    |                                         |                                               |                                             | · ·                          |                                       |                  |                          |                                       |
| Acct.<br>No.        | Description                                                                       | Scope Definition                      | Cent.<br>Type | Quantity  | Unit of<br>Measure | <u>Unit Eaulo / Met.</u><br><u>Cost</u> | <u>Totai</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract<br>S | <u>DOR</u><br>(Eurnish)               | DOR<br>(install) | Total.<br>Projected Cost | <u>Sub-Totala</u>                     |
|                     |                                                                                   | l                                     |               | ·         |                    |                                         |                                               |                                             |                              |                                       |                  | -                        |                                       |
|                     | 1 - 2 MM TPY OPTION WITH RAPID DISC                                               | HARGE CARS                            |               |           |                    |                                         |                                               |                                             |                              |                                       |                  |                          |                                       |
|                     | Equipment To Unioad Trains @ 1500                                                 |                                       |               |           |                    |                                         |                                               |                                             |                              |                                       |                  |                          |                                       |
|                     | Exception for track hopper pit foundation                                         | **                                    | Est           | 1         |                    |                                         |                                               |                                             |                              |                                       |                  |                          | 10,965,000                            |
|                     | Concrete work for track hopper                                                    |                                       | Est           |           | LS<br>(S           | 400,000,00                              |                                               | 500,000                                     |                              |                                       |                  | 500,000                  |                                       |
|                     | Track hopper building                                                             |                                       | Est           | 1         | LS                 | 120,000.00                              |                                               | 48,000                                      |                              |                                       |                  | 560,000<br>168,000       |                                       |
|                     | Car shaker / support size/<br>Hopper and grizzly                                  |                                       | Eat           |           | LS                 | 86,600,00                               | 60,000                                        | 24,000                                      |                              |                                       |                  | 84,000                   | · ·                                   |
|                     | Track hopper dust suppression                                                     |                                       | Est<br>Est    |           | LS                 | 190,000.00                              |                                               | 60,000                                      |                              |                                       |                  | 210,000                  |                                       |
|                     | Belt feeders                                                                      |                                       | Est           | 2         | LS<br>LS           | 90,000,00                               | 100,000                                       | 40,000                                      |                              |                                       |                  | 140,000                  |                                       |
|                     | Concretework for conveyor / tunnel                                                |                                       | Est           | 1         | 1.5                | 190,000.00                              | 150,000                                       | 60,000                                      |                              |                                       |                  | 168,000<br>210.000       |                                       |
|                     | Self conveyor, 48" wide, 250 ft long                                              |                                       | Est           | 1         | 1.5                | 375,000.00                              | 375,000                                       | 150,000                                     |                              |                                       |                  | 525,000                  |                                       |
|                     | Foudation for transfer house                                                      |                                       | <u>Est</u>    |           | LS<br>LS           | 80,000.00                               | 80,000                                        | 32,000                                      |                              |                                       |                  | 112,000                  |                                       |
|                     | Set conveyor, 48" wide, 1,500 ft long, hooded<br>conveyor                         |                                       | Est           |           | LS I               | 1,600,600.00                            | 40,000                                        | <u>16,000</u><br>720,000                    |                              |                                       |                  | 2,520,000                |                                       |
|                     | oudation for transfer house                                                       |                                       | Est           | 1         | L <u>S</u><br>LS   | 200,000.00                              | 200,000                                       | 160,000                                     |                              |                                       |                  | 360,000                  |                                       |
|                     | Selt conveyor to radial stacker, 48" wide, 400 R long.                            |                                       | Est           |           |                    | 50,000,00                               | 50,000                                        | 20,000                                      |                              |                                       |                  | 70,000                   |                                       |
|                     | rected conveyor<br>renater house at radial stacker                                |                                       | Est<br>Est    |           | L8<br>LS           | 100,000,00                              | 500,000                                       | 200,000                                     |                              |                                       |                  | 700,000                  |                                       |
|                     | outation for transfer house                                                       |                                       | Est           | 1         | 1.8                | 40,000.00                               | 40,000                                        | 18,000                                      |                              | · · · · · · · · · · · · · · · · · · · | · <u> </u>       | 180,000                  | ·                                     |
|                     | Radiel stacker, 48" wide, 200 ft long                                             |                                       | Est           | 1         | 13                 | 250,000.00                              | 250,000                                       | 200,000                                     |                              |                                       |                  | 450,000                  | · · · · · · · · · · · · · · · · · · · |
|                     | And suppression for bell conveyors                                                |                                       | Est<br>Est    | 1         |                    | 100,000.00                              | 100,000                                       | 60,000                                      |                              |                                       |                  | 180,000                  |                                       |
|                     | The protection for conveyors                                                      |                                       | Est           |           | iš l               | 200,000.00                              | 200,000                                       | 80,000                                      |                              |                                       |                  | 280,000                  |                                       |
|                     | IVAC for track hopper pit and transfer houses<br>tump pump system at track hopper |                                       | Est.          | 1         | LŚ                 | 200,000.00                              | 200,000                                       | 80,000                                      |                              |                                       |                  | 236,000                  |                                       |
|                     | losis and policys                                                                 | · · · · · · · · · · · · · · · · · · · | Est<br>Est    | 1         | <u>18</u>          | 50,000.00                               | 50,000                                        | 20,000                                      |                              |                                       |                  | 70,000                   |                                       |
| L.                  | rack work midification, add one 45 car track                                      | 2500 LF                               | Est           |           |                    | 50,000.00<br>250,000.00                 | <u>50,000</u><br>250,000                      | 20,000                                      |                              |                                       |                  | 70,000                   |                                       |
|                     | emporary Coffer Dam                                                               | ;                                     | Est           | · · · · · | iš –               | 500,000,00                              | 230,000                                       | 1,042,000                                   |                              |                                       |                  | 1,000,000                |                                       |
| l f                 | awatering                                                                         |                                       | Est           | 1         | L\$                | 2,000.00                                | 2,000                                         | 236,000                                     |                              |                                       |                  | 238,000                  |                                       |
|                     | quipment To load Shuttle Trains                                                   |                                       |               |           |                    |                                         |                                               |                                             | —                            |                                       |                  |                          | 4,304,000                             |
| I                   | zonvalion for reclaim hopper pit foundation                                       |                                       | Est           | 1         | 3                  | 0.00                                    |                                               | 300,000                                     | —ŀ                           |                                       |                  |                          | -,,++++++++++++++++++++++++++++++++++ |
| <b>I</b> ≦          | oncrete work for RECLAM hopper<br>opper and orizzly                               |                                       | Est           | 1         | \$                 | 306,000.00                              | 300,000                                       | 120,000                                     |                              |                                       |                  | 300,000 420,000          |                                       |
|                     |                                                                                   | 2 Each                                | Est           | 1         | <u>s</u>           | 150,000.00                              | 150,000                                       | 60,000                                      |                              |                                       |                  | 210,000                  |                                       |
|                     | oncretework for conveyor / tunnel                                                 |                                       | Est           |           | <u>s</u>           | 120,000.00                              | 120,000                                       | 48,000                                      |                              |                                       |                  | 168,000                  |                                       |
| HUNPODAPROJ<br>9403 | ECTRABBON FOOIling lived 1-2 TPY Option.shi/CBXT Estima Review                    |                                       |               |           |                    |                                         |                                               | 40,000                                      | L                            |                                       |                  | 140,000                  |                                       |
|                     |                                                                                   |                                       |               |           | Page 1 of          | 4                                       |                                               |                                             |                              |                                       |                  |                          |                                       |
|                     |                                                                                   |                                       |               |           |                    |                                         |                                               |                                             |                              |                                       |                  |                          |                                       |

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DOCKET MEALING COMPANY COXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| EXHIB    | T: 28-2                                                                                   |                                       |               |                                       |                    | . 1                       | ampa Electri                                  | c                                                                           |                       | E                       | stimate No.:            |                          |          |
|----------|-------------------------------------------------------------------------------------------|---------------------------------------|---------------|---------------------------------------|--------------------|---------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|-----------------------|-------------------------|-------------------------|--------------------------|----------|
|          | & Lundy LC                                                                                |                                       |               | 1                                     |                    |                           | Big Bend                                      |                                                                             |                       |                         | Project No.:            | 09478-019                |          |
| Chic     |                                                                                           |                                       |               |                                       |                    |                           | Rail Delivery                                 |                                                                             |                       |                         | Date                    | 94403                    |          |
|          |                                                                                           | Cost Type:                            |               |                                       |                    | Ord                       | ler of Magnit                                 | ude                                                                         |                       |                         |                         | DRAFT                    |          |
|          |                                                                                           | Ear-Estimated                         |               | ···                                   |                    |                           | RY AND CON                                    |                                                                             |                       |                         |                         |                          |          |
|          |                                                                                           | 9-816                                 |               |                                       |                    |                           |                                               |                                                                             |                       |                         | Run Date:               |                          |          |
|          | · · · · · · · · · · · · · · · · · · ·                                                     | OPS-Other Project Bid                 |               | <u> </u>                              |                    |                           |                                               |                                                                             |                       |                         | Preparer                | GBB/SM                   |          |
|          |                                                                                           | Q=Vendor Quele                        |               |                                       |                    |                           |                                               |                                                                             |                       |                         | Reviewer                |                          |          |
|          |                                                                                           |                                       |               | · · · · · · · · · · · · · · · · · · · |                    |                           |                                               |                                                                             |                       |                         |                         |                          |          |
| Acct.    | Description                                                                               | Scope Definition                      | Cost.<br>Type | Guantity                              | Unit of<br>Measure | Unit Equip / Mat.<br>Cost | <u>Total</u><br>Equipment or<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | Sub-<br>Contract<br>2 | <u>DQR</u><br>(furnish) | <u>por</u><br>(Install) | Total.<br>Projected Cost | Sut-Tota |
|          | Bell conveyor, 45" wide, 500 ft long                                                      |                                       | Est           | 1                                     | ιś                 | 500,000,00                | 500,000                                       | 200,000                                                                     |                       |                         |                         | 700,000                  |          |
|          | Losdout bin structure                                                                     |                                       | Est           | 1                                     | LS                 | 750,000.00                | 750,000                                       |                                                                             |                       |                         |                         | 1,050,000                |          |
|          | Fondation work for conveyors                                                              |                                       | Est           | 1                                     | LS                 | 30,000.00                 | 30,000                                        |                                                                             |                       |                         |                         | 54,000                   |          |
|          | Dust suppression for belt conveyors                                                       |                                       | Est           | 1                                     | LS                 | 200,000.00                | 200,000                                       | 80,000                                                                      |                       |                         | Į                       | 280,000                  |          |
|          | Fire protection for conveyors                                                             |                                       | Est           | <u> </u>                              | LS<br>LS           | 25,000.00                 | 25,000                                        | 25,000                                                                      |                       |                         | <b>↓</b>                | 70,000                   |          |
|          | HVAC forrectaim hoppen, loadout station<br>Sump pump system at rectaim hoppen and loadout |                                       | Est           |                                       |                    |                           |                                               |                                                                             |                       |                         |                         |                          |          |
|          | station                                                                                   |                                       | Est           | 1                                     | LS                 | 50,000,00                 | 50,000                                        |                                                                             |                       |                         | [                       | 70,000                   |          |
|          | Hoists and policys                                                                        |                                       | Est           | 1                                     | LŚ                 | 30,000.00                 |                                               |                                                                             |                       |                         |                         | 42,000                   |          |
|          | Loader / dozer                                                                            |                                       | Est           | 1                                     | LS                 | 750,000.00                | 750,000                                       | 0                                                                           | <b>}</b>              | }                       | <b> </b>                | 750,000                  |          |
|          | Electrical - Aux, Power                                                                   |                                       |               |                                       |                    |                           |                                               |                                                                             |                       |                         |                         |                          | 2,368    |
|          | Vacuum Circuit Breaker and Cubicles                                                       |                                       | Est           | 2                                     | ĒA                 | 25,000,00                 | 50,000                                        |                                                                             |                       | }                       | <b>↓</b>                | 53,000                   |          |
|          | 460 V Transformer                                                                         | includes Switchgeer                   | Eist<br>Eist  | 2                                     | Ea<br>EA           | 40,000,00                 |                                               |                                                                             |                       |                         |                         | 303,000                  |          |
|          | MCC                                                                                       | 480 V (71 Moters)                     | C81           | I                                     | <u> </u>           |                           |                                               |                                                                             |                       |                         |                         |                          |          |
|          | Traya                                                                                     | Trays (Transformer Feed)              | Est           | 2,000                                 | UF                 | 30.00                     | 60,000                                        | 58,000                                                                      |                       |                         |                         | 118,000                  |          |
|          | Conduits                                                                                  | Candulia (500 LF byp per motor feed)  | Est           | 35,500                                | LF                 | 3.00                      | 107,000                                       | 306,000                                                                     |                       |                         |                         | 413,000                  |          |
|          | Transformer Feeder Cable                                                                  | MV-80                                 | Est           | 2,000                                 | LF                 | 8.00                      | 16.000                                        | 40,000                                                                      |                       |                         | 1                       | 56,000                   |          |
|          | MV Wring                                                                                  | 3/C #2 - 500 LF per motor             | Est           | 35,500                                | LF                 | 5.00                      | 178,000                                       | 564,000                                                                     |                       |                         | <b></b>                 | 742,000                  |          |
|          |                                                                                           |                                       |               |                                       |                    |                           |                                               |                                                                             |                       |                         |                         |                          | <u> </u> |
|          | Transformer Firewalls                                                                     | 2 Transf.                             | "Esi          |                                       | LT                 | 30,000.00                 | 30,000                                        | 9,000                                                                       |                       |                         |                         | 39,000                   |          |
| -        |                                                                                           |                                       | Est           |                                       | LS                 | 200,000,00                | 200,000                                       | 60,000                                                                      |                       |                         |                         | 260,000                  |          |
| ≁        | Electrical Building - Pre Fabricated - Complete                                           | Elevated supports and foundations     | <u></u> _     | · · · · · · · · · · · · · · · · · · · | <u>13</u>          |                           |                                               | 1                                                                           | Į                     |                         |                         |                          |          |
|          | Conveyor Lighting                                                                         | 2850 LF                               | Est           | 1                                     | LS                 | 40,000.00                 | 40,000                                        | 46,000                                                                      |                       |                         |                         | 86,000                   |          |
|          |                                                                                           |                                       |               |                                       |                    |                           |                                               |                                                                             |                       |                         |                         |                          |          |
|          | Control & Instrumentation                                                                 |                                       |               |                                       |                    |                           |                                               |                                                                             |                       |                         |                         |                          | 65       |
|          | DCS Upprages                                                                              | 6 VO's per Motor                      | Est           | 1                                     | LS                 | 300,000.00                |                                               |                                                                             |                       |                         |                         | 600,000                  |          |
|          | DCS BOP Equipment                                                                         |                                       | Est           |                                       | LS                 | 25,000.00                 |                                               |                                                                             |                       |                         | <u> </u>                | 50,000                   | <u> </u> |
|          | Locally Mounted Instruments                                                               | · · · · · · · · · · · · · · · · · · · | En            | ╁╍╍┷                                  | LS                 | 1,500.00                  | 2,000                                         | 4,000                                                                       | 1                     | <b></b>                 |                         | 0,000                    |          |
|          | BOP Items                                                                                 |                                       |               |                                       |                    |                           |                                               |                                                                             |                       |                         |                         |                          | 68       |
|          | Fire Protection Upgrade                                                                   | 1000 LF                               | Est           | 1                                     | LŜ                 | \$6,000.00                | 95,000                                        |                                                                             |                       |                         |                         | 179,000                  |          |
|          | Demo/Reconstruction of Storage Area                                                       | Elevented at +15" (98,000 CY)         | Est           | 2                                     | LS                 | 0.00                      |                                               | 30,000                                                                      |                       | <u> </u>                | <b>!</b>                | 30,000                   |          |
|          | Stormweier/Coel Ranoff Grading Upgredee                                                   | 3000 15                               | Est           |                                       |                    | 2,000.0                   |                                               |                                                                             | <u>'</u>              | I                       |                         | 8,000                    |          |
|          | Underground Utility Identification and Relocation                                         | Tamps - Altomate<br>2 - 20° lines     | Est           | ┢─┼──                                 |                    | 25,000.0                  |                                               | 25,000                                                                      |                       | <u> </u>                | +                       | 130,000                  |          |
| <b>۱</b> |                                                                                           |                                       |               |                                       |                    |                           |                                               | 00,000                                                                      |                       |                         |                         | 100,000                  |          |

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EXHIBIT NO. (JBS JOHN B. STAMBERG - CSX DOCKET NO. 031033-EI PAGE 23 OF 107

NO. (JBS-10) STAMBERG - CSXT

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IAMEA ELECTRIC CUMPANY DOCKET NO. 031033-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

| exhibi       | T: 2B-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |               |          |                    | 1                                       | ampa Electr                                   | IC                                          |                  |                          | Estimate No.            | XXXXX                                           | E.            |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------|----------|--------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------|------------------|--------------------------|-------------------------|-------------------------------------------------|---------------|
| Sergent 4    | 6 Lundy U.C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |               | 1        |                    |                                         | Big Bend                                      |                                             |                  |                          | Project No.             | 88476-019                                       |               |
| Chics        | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1                                          |               | <u> </u> |                    | [                                       | Rall Delivery                                 | 1                                           |                  |                          | Date                    | \$14/03                                         |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cost Type:                                 | 1             | ¶        | 1                  |                                         | der of Magnit                                 |                                             |                  |                          |                         | DRAFT                                           |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est-Estimated                              |               |          |                    | -PRELIMINA                              | RY AND CO                                     | NFIDENTIAL-                                 |                  |                          |                         |                                                 |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8-8id                                      |               |          | <u> </u>           |                                         | T                                             | <u></u>                                     |                  |                          | Run Date                | 9/4/03                                          | · · · · · ·   |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OPB-Other Project Bid                      |               | <u> </u> | <u> </u>           | · · · · · · · · · · · · · · · · · · ·   |                                               |                                             |                  |                          | Preparer                | 088/84                                          |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Q-Vender Quete                             |               | 1        | 1                  |                                         |                                               |                                             |                  |                          | Reviewer                |                                                 |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |               |          |                    |                                         |                                               |                                             |                  |                          |                         |                                                 |               |
| Acca.<br>Hs. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Scope Definition                           | Cost.<br>Type | Quantity | Unit of<br>Measure | <u>Unit Equip / Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract | <u>QOR.</u><br>(Furnish) | <u>DOR</u><br>(Install) | Total.<br>Projected Cost                        | <u>Sub-To</u> |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |               |          |                    |                                         |                                               |                                             |                  |                          |                         |                                                 |               |
|              | Adjustment for FL Building Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Applies to Estimated Steel Cost            | EN            | <u> </u> |                    |                                         |                                               | 188,846                                     |                  |                          | <u> </u>                | 188,846                                         | <u> </u>      |
|              | Concrete @ 10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Applies to Estimated Concrete Cost         | Est           | 1        | LS<br>LS           |                                         | 0                                             | 161,868                                     |                  | ·····                    |                         | 161,868                                         |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |               | [        |                    |                                         |                                               |                                             |                  |                          |                         |                                                 |               |
|              | Sub-Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |               |          |                    |                                         | 10,800,000                                    | 8,178,846                                   |                  |                          |                         | 18,978 <b>,846</b>                              | <u> </u>      |
|              | Other Costs/Adjustments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |               |          |                    |                                         |                                               |                                             |                  |                          |                         |                                                 | 1,22          |
|              | Contractor's General & Administrative Costs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Based 5% of Equip, Material,<br>and Labor  |               |          |                    |                                         |                                               | 409,000                                     |                  |                          |                         | 409,000                                         |               |
|              | Contractor's Profit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Based 10% of Equip,<br>Material, and Labor |               |          |                    |                                         |                                               | 818,000                                     |                  |                          |                         | 818,000                                         |               |
|              | Total Equipment, Material and Labor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -{                                         |               | {        |                    |                                         |                                               |                                             |                  |                          |                         | -                                               |               |
|              | Costs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |               |          |                    |                                         | 10,800,000                                    | 9,405,846                                   |                  |                          | }                       | 20,205,846                                      | 20,2          |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |               |          |                    |                                         |                                               |                                             |                  |                          |                         |                                                 |               |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - <b> </b>                                 |               | <b> </b> | <b> </b>           |                                         | <b> </b> i                                    |                                             |                  |                          | I                       | Į                                               |               |
| I            | Freight, Duties, Taxes, Etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |               |          |                    |                                         | 2                                             |                                             |                  |                          | 1                       | Į                                               | 1             |
|              | Freight-ExWorks To Sile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Included in Meterial &<br>Equipment Costs  |               |          |                    |                                         |                                               |                                             |                  |                          |                         | Included in<br>Material &<br>Equipment<br>Costs |               |
|              | Taxes - Sales/Use/VAT/Business/Etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not Included                               |               |          |                    |                                         |                                               |                                             | - · ·            |                          |                         | Costs<br>Not Included                           |               |
|              | Total Direct Project Costs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |               |          |                    |                                         | 10,800,000                                    | 9,405,846                                   |                  | · · · · · ·              |                         | 20,205,846                                      | 20,20         |
|              | indirect Costs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |               |          |                    | -                                       |                                               |                                             |                  |                          | [                       |                                                 | 2,31          |
|              | neurance<br>Bulklers Riek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |               |          |                    |                                         |                                               |                                             |                  |                          |                         | Not included                                    |               |
|              | Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contraction of Contra | · · · · · · · · · · · · · · · · · · ·      |               |          |                    |                                         |                                               |                                             | i                |                          |                         | Treat tuck and a second                         | j             |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 24 OF 107

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DOCKET NO. 031033-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| VUID         | T: 28-2                                            |                                                |                      |          |                    | T                                       | ampa Electri                            | C                                                                           |                  |                         | stimate No.:      |                                 | 2                                            |
|--------------|----------------------------------------------------|------------------------------------------------|----------------------|----------|--------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------|------------------|-------------------------|-------------------|---------------------------------|----------------------------------------------|
|              | Lundy LC                                           |                                                |                      |          |                    |                                         | Big Bend                                |                                                                             |                  |                         | Project Ne.:      | 68475-019                       |                                              |
| Chic         | e Lunay                                            |                                                |                      |          |                    |                                         | Rail Delivery                           | ,                                                                           |                  |                         | Date:             | 9/4/03                          |                                              |
| Gine         |                                                    | Cost Type:                                     |                      |          |                    |                                         | ier of Magnit                           |                                                                             |                  |                         |                   | DRAFT                           |                                              |
|              |                                                    | Est-Estimated                                  |                      |          |                    | -PRELIMINA                              | RY AND COI                              | VFIDENTIAL.                                                                 |                  |                         |                   |                                 |                                              |
|              |                                                    | 9-8id                                          |                      |          |                    |                                         |                                         |                                                                             |                  |                         | Run Dete:         |                                 | <u>.                                    </u> |
|              |                                                    | OPB-Other Project Bid                          |                      |          |                    |                                         |                                         |                                                                             |                  |                         | Properar:         | GBB/SM                          | · <u>·</u> ·····                             |
|              |                                                    | Q-Wunder Quete                                 |                      |          | <u> </u>           |                                         |                                         |                                                                             |                  |                         | Reviewer:         | I                               |                                              |
|              |                                                    |                                                |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   |                                 | <u></u>                                      |
| Acet.<br>No. | Description                                        | <u>Score Definition</u>                        | <u>Cont.</u><br>Type | Quantity | Unit of<br>Measure | <u>Unit Equip./ Mat.</u><br><u>Cost</u> | Istei.<br>Equipment or<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | Sub:<br>Contract | <u>DOR</u><br>(Furnish) | DOR.<br>(İnstali) | <u>Total.</u><br>Projected Cost | <u>Sub-Tota</u>                              |
|              | Tamos Electric Interface with A/E                  | Project Mgmnt, Eng and<br>Construction Support |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   | 141,441                         |                                              |
|              |                                                    | Four men for 2 yrs @ \$75K.                    |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   | 600,000                         |                                              |
|              |                                                    | Tampa                                          |                      |          |                    |                                         |                                         |                                                                             |                  |                         | ĺ                 | 163,000                         |                                              |
|              |                                                    |                                                |                      |          | [                  |                                         | ·                                       |                                                                             |                  |                         |                   | 2,318,850                       | <u> </u>                                     |
|              | Total Indirect Project Costs                       |                                                |                      |          | ļ                  |                                         |                                         |                                                                             |                  |                         |                   | 2,310,000                       |                                              |
|              | Escalation                                         | Not included                                   |                      |          |                    |                                         | <u> </u>                                |                                                                             |                  |                         |                   | Not included                    | · · · · · · · · · · · · · · · · · · ·        |
|              | EPC Costs                                          |                                                |                      |          |                    | · ·                                     |                                         | · · · · · ·                                                                 |                  |                         |                   | 2,939,951                       | 2,939                                        |
|              | General & Administrative (G&A) @ 5% of Dirct Costs |                                                |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   | 1,010,292                       |                                              |
|              | Efficacy insurance @ .8% of Direct Costs           |                                                |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   | 161,647                         | <u></u>                                      |
|              | Fee @ 8% of Direct Colts                           | Profit and Home Office<br>Overhead             |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   | 1,616,468                       |                                              |
|              | Performance Bond @ .75% of Direct Costs            |                                                |                      |          |                    |                                         |                                         |                                                                             | ļ                |                         |                   | 151,544                         |                                              |
|              | Contingency                                        |                                                |                      |          |                    |                                         |                                         |                                                                             |                  |                         |                   |                                 | 5,092                                        |
|              | Contingency                                        | 20% of overall cost                            |                      |          | <u> </u>           |                                         |                                         |                                                                             | ļ                | ļ                       | <b>_</b>          | 5,092,929                       |                                              |
|              | Interest During Construction (AFUDC)               | Not Included                                   |                      |          | <u> </u>           |                                         |                                         |                                                                             |                  |                         | <u> </u>          | Not Included                    |                                              |
|              | Total Project Cost                                 |                                                |                      |          |                    | <u> </u>                                | <u> </u>                                |                                                                             |                  |                         |                   | 30,557,576                      | 30,557                                       |

DOCKET NO. 631633-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Page 4 of 4

PROJECT SIGNERON FOOLINE Band 1-2 TPY Option.stdCBXT Estime Review

HOMPOORA 844/03

### .UNFIDENTIAL

Sargent & Lundy"

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery IAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

SL-008160 Project No. 09476-019 September 4, 2003

### **EXHIBIT 2C-1**

|                                              | OST ESTIMATE |
|----------------------------------------------|--------------|
| Shuttle Train Unload System                  | 7/14         |
| Bottom Dump with Conveyor to Silos 1500 THP. |              |
| 2500' of Track at \$200 foot                 | \$500,000    |
| Total                                        | \$2,318,000  |
|                                              |              |

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Page 1

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 26 OF 107

### JUNFIDENTIAL

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT 20.2 54 L Entimate for

Polk shuttle train Unlest

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 27 OF 107

| : 20-2                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      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| quipment To Unload Trains @ 1500                  | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      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|                                                   | arc #2 - 500 LF per mater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5.00                                   | 100,000                                                                                                                  | 318,000                                                                     |                                                      |                                                         |                                                     | 418,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |
| rensformer Firewalls                              | 2 Tranel,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30,000,00                              | 30,000                                                                                                                   | 9,000                                                                       |                                                      |                                                         |                                                     | 39,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u> </u>                                                            |
|                                                   | Description           HUTTLE TRAIN UNLOADING SYSTEM           quipment To Unload Trains (2) 1500           PH           cavelion for tech hopper pit foundation           marste work for tack hopper           proper building           exhibits           exhibits | Case Type:<br>Ext-Extinueed<br>B=Bid<br>OPE=Criter Project Bid<br>OPE=Criter Bid<br>OPE=Criter Bid<br>OPE=Criter Bid<br>OPE=Criter Bid<br>OPE= | Cast Type:<br>Existentiated<br>B=Bid<br>OPE-Other Project Bid<br>OPE-Other P | Cast Type:       Breaki       Breaki       Breaki       Breaki       Breaki       Cast Char Project Bid       Cast Char Proje | Cent Type:     Cent Stype:       Besta | Cent Type:         Orr           B=044        PRELIMINA           B=044        PRELIMINA           OPB-coher Project Bis | Cent Type:         Order of Magnification           Based                   | Cent Type:         Order of Magnitude           Beak | Own Type:         Order of Magnitude           Breaking | Case Type         Order of Magnifude           Best | Cent Type:         Order of Magnifued         PRELIMINARY AND CONFIDENTIAL:           Petal         OPE-Door Prijet Bit         Processon         Processon         Processon           OPE-Door Prijet Bit         Processon         Processon         Processon         Processon           OPE-Door Prijet Bit         Processon         Processon         Processon         Processon           OPE-Door Prijet Bit         Processon         Processon         Processon         Processon           Datactorbion         Score Dafintion         Contact Could         Processon         Processon           Unit Could Trains Q 1500         Processon         Processon         Processon         Processon           Unit Could Trains Q 1500         Processon         Processon         Processon         Processon           Unit Could Trains Q 1500         Processon         Processon         Processon         Processon           Unit Could Trains Q 1500         Processon         Processon         Processon         Processon           Processon Processon         Processon         Processon         Processon         Processon           Unit Could Trains Q 15000         Processon         Processon         Processon         Processon           Processon Processon Processon         East | Own Type:         Overage of Magnitude         Own T           Mail |

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JOHN B. STAMBERG - CS DOCKET NO. 031033-EI PAGE 28 OF 107

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EXHIBIT NO.

(JBS-10) - CSXT

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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|              | IT: 2C-2                                                                                                |                                            |                      |          |                     | 1                              | Tampa Electr                            | 10                                          |                  | 1                       | Estimate No.;    | 20000                          |                                       |
|--------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------|----------|---------------------|--------------------------------|-----------------------------------------|---------------------------------------------|------------------|-------------------------|------------------|--------------------------------|---------------------------------------|
| Bargent      | Lundy LLE                                                                                               |                                            |                      |          |                     |                                | <b>Polk Station</b>                     | •                                           |                  |                         | Project No.:     | 09475-019                      |                                       |
| Chie         | ago                                                                                                     |                                            |                      |          | 1                   |                                | Rail Deliver                            |                                             |                  |                         | Dete             | 0/4/03                         |                                       |
| _            |                                                                                                         | Cost Type:                                 |                      | 1        | <u> </u>            | Ór                             | ler of Magnit                           |                                             |                  |                         | 1                | DRAFT                          |                                       |
|              |                                                                                                         | Est-Estimated                              |                      | 1        | <u> </u>            |                                |                                         | NFIDENTIAL                                  |                  | f                       | ┼───             |                                | ·                                     |
|              |                                                                                                         | 9-84d                                      | <u></u>              | ╈╸       | <u> </u>            |                                |                                         | ALL TRACTOR                                 | f                |                         | Run Date:        | AU #2                          |                                       |
|              | {                                                                                                       | OPB-Other Project Bid                      | {                    |          | ╈╾╌╌┙               | <u> </u>                       | <u>+</u>                                | ·                                           | ·                | +                       |                  | GBB/BM                         |                                       |
|              |                                                                                                         | Q=Vender Guete                             |                      | -{       | <del> </del>        |                                |                                         |                                             | [·               |                         | Reviewer         | GERNAN                         |                                       |
|              |                                                                                                         |                                            |                      | <u> </u> | <u> </u>            |                                | <u> </u>                                |                                             |                  |                         | PCPVID4PEC;      |                                | · · · · · · · · · · · · · · · · · · · |
| Aoct.<br>No. | Description                                                                                             | Scope Definition                           | <u>Cost.</u><br>Ivpe | Quantity | Unit of,<br>Measure | <u>Unit Equip/Mat.</u><br>Cost | Total,<br>Equipment or<br>Material Cost | Intel<br>Construction<br>& Exection<br>Cost | Sub:<br>Contract | <u>DOR</u><br>(Furnish) | DOR<br>(Install) | <u>Total</u><br>Projected Gost | Sub-Tota                              |
|              | SHUTTLE TRAIN UNLOADING SYSTEM                                                                          |                                            |                      |          | <b>—</b>            |                                |                                         |                                             |                  |                         |                  |                                |                                       |
|              | Electrical Building - Pre Fabricated - Complete                                                         | Includes foundation                        | Est                  | 1        | LS                  | 110,000.00                     | 110.000                                 | 22,000                                      |                  |                         |                  | 132,000                        |                                       |
|              |                                                                                                         |                                            |                      | L        |                     |                                |                                         |                                             |                  |                         |                  |                                |                                       |
|              | Conveyor Lighting                                                                                       | 650 LF                                     | Ëst                  |          | 13                  | 9,100.00                       | 9,000                                   | 11,000                                      |                  |                         |                  | 20,000                         |                                       |
|              | Control & Instrumentation                                                                               |                                            |                      |          |                     |                                |                                         |                                             |                  |                         |                  |                                | 333                                   |
|              | DCS Upprages<br>DCS BOP Equipment                                                                       | 6 VO's per Motor                           | Est                  | 1        | 1.8                 | 140,000.00                     | 140,000                                 | 140,000                                     |                  |                         |                  | 280,000                        |                                       |
|              | DCS BOP Equipment                                                                                       |                                            | Est                  | 1        | L\$                 | 25,000.00                      | 25,000                                  | 25,000                                      |                  |                         |                  | 50,000                         |                                       |
|              | Locally Mounted Instruments                                                                             |                                            | Est                  | 1        | LS                  | 750.00                         | 1,000                                   | 2,000                                       |                  |                         |                  | 3,000                          |                                       |
|              | BOP Items                                                                                               |                                            |                      |          |                     |                                |                                         |                                             |                  |                         |                  |                                | 385                                   |
|              | Fire Protection Upgrade                                                                                 | 500 LP                                     | Est                  | 1        | LS                  | 47,500.00                      | 48,000                                  | 42,000                                      | ·                |                         | <b></b>          | 90,000                         |                                       |
|              | Stormwater/Coal Runoff Grading Upgrades                                                                 | 1500 LF                                    | Est                  | 1        | LS                  | 1,000.00                       | 1,000                                   | 6,000                                       |                  |                         | 1                | 7.000                          |                                       |
|              | Relocation of Wetlands                                                                                  | l Acres                                    | En/                  | 1        | L8                  | \$,000,00                      | <u>1,000</u><br>5,000                   | 135,000                                     |                  |                         |                  | 140,000                        |                                       |
|              | Underground Unity Identification and Relocation<br>General Services Interconnection (water & air, aic.) | Temps - Allowence                          | Est                  |          | <u>us</u>           | 12,500,00                      | 13,000                                  | 12,000                                      |                  |                         |                  | 25,000                         |                                       |
|              | Seneral Senaces Interconnection (water & all, etc.)                                                     | Allowance                                  | <u> </u>             | 1        | <u>us</u>           | 25,000.00                      | 25,000                                  | 25,000                                      |                  |                         |                  | 50,000                         |                                       |
|              | Adjustment for PL Building Code                                                                         |                                            |                      |          |                     |                                |                                         | ·                                           |                  |                         |                  |                                |                                       |
|              | Steel (2 7%                                                                                             | Applies to Estimated Steel Cost            | Est                  | 1 1      | 13                  |                                |                                         | 39,375                                      |                  |                         |                  | 39,375                         |                                       |
|              | Concrete @ 10%                                                                                          | Applies to Estimated Concrete Cost         | Est                  | 1        | is                  |                                | 0                                       | 33,750                                      |                  |                         |                  | 33,750                         |                                       |
|              | Sub-Total                                                                                               |                                            |                      |          |                     |                                | 4,428,000                               | 4,492,875                                   |                  |                         |                  | 9,004,625                      |                                       |
|              | Other Costs/Adjustments                                                                                 |                                            |                      |          |                     |                                |                                         |                                             |                  |                         |                  |                                | 674                                   |
|              |                                                                                                         | Based 5% of Equip, Material,<br>and Labor  |                      |          |                     |                                |                                         | 225,000                                     |                  |                         | · ·              | 225,000                        |                                       |
|              |                                                                                                         | Based 10% of Equip,<br>Material, and Labor |                      |          |                     |                                |                                         | 449,000                                     | •                |                         |                  | 449,000                        |                                       |
|              | Total Equipment, Material and Labor                                                                     |                                            |                      |          |                     |                                |                                         |                                             |                  |                         |                  |                                |                                       |
|              | Costs                                                                                                   |                                            |                      |          |                     |                                | 4,428,000                               | 5,166,875                                   |                  |                         |                  | 9,678,625                      | 9,678                                 |

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DOCKET NO. 631033-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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|              | IT: 2C-2                                                                                       |                                                |                     |          | 1                  | 11                                    | Tampa Electr                                  | IC                                                                          |                              | 1                      | Estimate Ne;     | : X000X                                |          |
|--------------|------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------|----------|--------------------|---------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|------------------------------|------------------------|------------------|----------------------------------------|----------|
|              | & Lundy LLC                                                                                    |                                                | 1                   |          | 1                  |                                       | <b>Polk Station</b>                           | )                                                                           |                              |                        | Project No.:     | 09476-019                              |          |
| Chie         | ago                                                                                            |                                                |                     |          |                    |                                       | Rail Deliven                                  | 1                                                                           |                              |                        | Cate             | 9403                                   |          |
|              |                                                                                                | Cost Type:                                     |                     |          | T                  | On                                    | der of Magnit                                 |                                                                             |                              |                        | 1                | DRAFT                                  |          |
|              |                                                                                                | Est-Estimated                                  |                     | 1        | <u> </u>           | -PRELIMINA                            | ARY AND CO                                    | NFIDENTIAL-                                                                 |                              |                        | ·                |                                        | ···-     |
|              |                                                                                                | 8-8id                                          |                     |          |                    |                                       | 1                                             |                                                                             | ···· • ••                    |                        | Run Date:        | 8/6/01                                 |          |
|              |                                                                                                | OPB-Other Project Bid                          | 1                   |          | 1                  |                                       |                                               |                                                                             |                              |                        |                  | GBB/SM                                 |          |
|              | ·                                                                                              | Q=Vender Guste                                 |                     |          |                    |                                       | 1                                             | · · ·                                                                       |                              |                        | Reviewer:        |                                        |          |
|              |                                                                                                |                                                |                     | 1        |                    |                                       |                                               |                                                                             |                              |                        |                  |                                        | •        |
| Acci.<br>NR. | Description                                                                                    | Scope Dativition                               | <u>Cost</u><br>Ives | Quantity | Unit of<br>Measure | Unit Eaulo / Met.<br>Cost             | <u>Total</u><br>Equipment or<br>Material Cost | <u>Jotal</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | <u>Sub-</u><br>Contract<br>E | <u>DOR</u><br>(Fumish) | DOR<br>(install) | Total<br>Projected Cost                | Sub-Tota |
|              |                                                                                                |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  |                                        |          |
|              | SHUTTLE TRAIN UNLOADING SYSTEM                                                                 |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  |                                        |          |
|              |                                                                                                |                                                |                     |          |                    |                                       | · · · ·                                       |                                                                             |                              |                        |                  |                                        |          |
|              | Freight, Duties, Taxes, Etc.                                                                   |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  |                                        |          |
|              | Freight-ExWorks To Site                                                                        | Included in Material &<br>Equipment Costs      |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | Included in<br>Material &<br>Equipment | -        |
|              | Taxes - Selec/Use/VAT/Business/Etc.                                                            | Not Included                                   |                     |          |                    | · · · · · · · · · · · · · · · · · · · |                                               |                                                                             |                              |                        |                  | Costs<br>Not included                  | -        |
|              | Total Direct Project Costs                                                                     |                                                |                     |          |                    |                                       | 4,428,000                                     | 5,166,875                                                                   |                              |                        |                  | 9,678,625                              | 9,678    |
|              | Indirect Costs                                                                                 | ······································         |                     |          | ·                  |                                       |                                               | ····                                                                        |                              |                        | -+               |                                        | 1,338    |
|              | Insurance                                                                                      |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  |                                        |          |
|              | Buildens Riek                                                                                  |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | Not included                           |          |
|              | EngineeringProcurement                                                                         | Ι.                                             |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 677,504                                |          |
|              | Tampa Electric Interface with A/E                                                              | Project Mgmnt, Eng and<br>Construction Support |                     |          |                    |                                       |                                               |                                                                             | [·                           |                        |                  | 67,750                                 |          |
|              | Tamps Electric Management of EPC Contractor                                                    | Two men for 2 yrs @ \$75K.                     |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 300,000                                |          |
|              | Permits and Fees                                                                               | Tampa                                          |                     |          |                    | <u></u>                               |                                               |                                                                             |                              |                        |                  | 293,000                                |          |
|              | Total Indirect Project Costs                                                                   |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 1,338,254                              |          |
|              | Escalation                                                                                     | Not included                                   |                     |          |                    |                                       |                                               |                                                                             |                              | ·                      |                  | Not included                           |          |
|              |                                                                                                |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  |                                        |          |
|              | EPC Costs                                                                                      |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 1,408,240                              | 1,408    |
| —- <b>¦</b>  | General & Administrative (G&A) @ 5% of Dircl Costs<br>Efficacy insurance @ .8% of Direct Costs |                                                |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 483,931                                |          |
|              | Fee (9 8% of Obert Costs                                                                       | Profit and Home Office                         |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 77,429                                 |          |
|              |                                                                                                | Overheed t                                     |                     |          |                    |                                       |                                               |                                                                             |                              |                        |                  | 774,290                                |          |
| [1           | Performance Bond @ .75% of Direct Costs                                                        |                                                |                     |          |                    | [                                     |                                               |                                                                             |                              |                        |                  | 72,590                                 |          |

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AMAYA ELECTING COMPANY DOCKET NO. 631033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| EXHIB        | T: 2C-2                              |                                       |              | L        |                    |                           | ampa Electri                                         |                                             |                       | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se | etimata No.;     |                         |                                       |
|--------------|--------------------------------------|---------------------------------------|--------------|----------|--------------------|---------------------------|------------------------------------------------------|---------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|---------------------------------------|
| Sargent      | & Lundy us                           |                                       |              |          |                    |                           | Polk Station                                         |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Project Hou      | 05476-018               |                                       |
| Chic         | ago                                  |                                       |              |          |                    |                           | Rail Delivery                                        |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | 9/4/83                  |                                       |
|              |                                      | Cost Type:                            |              |          |                    |                           | fer of Magnit                                        |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | ORAFT                   | · · · · · · · · · · · · · · · · · · · |
|              |                                      | Est=Estimated                         | <u> </u>     |          | ļ                  | -PRELIMINA                | RY AND COL                                           | NFIDENTIAL-                                 |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ļ                |                         | <u> </u>                              |
|              |                                      | B-Gid                                 |              |          |                    |                           |                                                      |                                             |                       | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Run Date:        |                         |                                       |
|              |                                      | OP#=Other Project Bid                 | _ <b>_</b>   | ļ        | ·                  | {                         |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Preparer;        | geb/sm                  |                                       |
|              |                                      | Q=Vendor Quete                        | +            | ł        |                    | ļ                         |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Reviewer:        |                         | <u> </u>                              |
| Acet.<br>No. | Description                          | Score Definition                      | Cost<br>Ivpe | Quantity | Unit of<br>Measure | Unit Equip./ Mat.<br>Cost | <u>Totat</u><br>Equipment or<br>Material <u>Cost</u> | Total<br>Construction<br>& Exection<br>Cost | Sub-<br>Contract<br>S | <u>DOR</u><br>(Eumish)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DOR<br>(Install) | Total<br>Projected Cost | <u>Sub-Tota</u>                       |
|              | SHUTTLE TRAIN UNLOADING SYSTEM       |                                       |              |          |                    |                           |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                         | <u> </u>                              |
|              | Contingency                          |                                       |              |          |                    |                           |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                         | 2,485,                                |
|              | Contingency                          | 20% of overall cost                   |              |          |                    |                           |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | 2,485,024               |                                       |
|              | Interest During Construction (AFUDC) | Not Included                          |              | ·····    |                    |                           |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | Not included            |                                       |
|              | Total Project Cost                   | · · · · · · · · · · · · · · · · · · · |              |          |                    |                           |                                                      |                                             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | 14,910,143              | 14,910                                |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 31 OF 107

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AMAYA ELECTIKIC COMPANY DOCKET NO. 631633-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

### LUNTIDENTIAL

Sargent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

DOCKET NO. 031033-EI

CSXT'S SIXTH REQUEST

FOR PRODUCTION OF DOCUMENTS

### EXHIBIT 2C-3

### OPERATING COST ESTIMATE FOR POLK BUILD IN SHUTTLE DELIVERY

| Power <sup>(1)</sup> | **********   |              | \$20,0                                   | 00  |
|----------------------|--------------|--------------|------------------------------------------|-----|
| Chemical for Du      | st Control   |              | ••••••                                   |     |
| in in the            |              | ··· > / >.   | an an an an an an an an an an an an an a | ••  |
| Labor                |              |              | \$601                                    | 088 |
| Maintenance (3%      | Capital Cost | )            |                                          |     |
| Lease on Locom       |              |              |                                          |     |
|                      |              |              |                                          |     |
| Taxes and Insura     | nce (158% (  | anital Cost) |                                          |     |

<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 32 OF 107

# JUNFIDENTIAL

#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sergent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

SL-008160 Project No. 09476-019 September 4, 2003

| EXHIBIT 2D-3                                 |                                                                   |
|----------------------------------------------|-------------------------------------------------------------------|
| POLK DIRECT DELIVERY                         |                                                                   |
| CSXT COSTESTIM                               | ATE                                                               |
| Build In Strategy                            |                                                                   |
| Item                                         | Cost                                                              |
| Scenario #1 Rotary Dump at Plant             |                                                                   |
| Loop Track                                   | \$1,102,000                                                       |
| Rotary Dumper with Conveyor to Silo 2500 tph | \$3,800,000                                                       |
| New 15,000 Ton Dome                          | \$1,600,000                                                       |
| Total                                        | \$6,502,000                                                       |
|                                              | industri e vitiko antena e e<br>e tradicionale e estas<br>galeria |
| Scenario #2 Bottom Dump at Plant             |                                                                   |
| Loop Track                                   | \$1,102,000                                                       |
| Bottom Dump with Conveyor to Silo 1500 tph   | \$1,818,000                                                       |
| New 15,000 Ton Dome.                         | \$1,600,000                                                       |
| Total                                        | \$4,520,000                                                       |
|                                              |                                                                   |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 33 OF 107 LUNFIDENTIAL

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT 20-1

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 34 OF 107

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|--------------|------------------------------------------------------------------------|---------------------------------------|---------------------|-----------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|------------------|---------------------------------------|-------------------------|--------------------------------|----------|
|              | it & Lundy <sup>LLC</sup>                                              |                                       |                     |                                               | L                         | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec | Polk Station                                  |                                             | <u> </u>         |                                       | Project No.:            |                                |          |
| Ch/          | cago                                                                   |                                       |                     | 1                                             | <u></u>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rail Delivery                                 |                                             |                  |                                       | Oate:                   | 8/4/83                         | <u> </u> |
|              |                                                                        | Cost Type:                            |                     |                                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ler of Magnit                                 |                                             |                  |                                       |                         |                                |          |
|              |                                                                        | Ent-Collegated                        |                     |                                               |                           | -PRELIMINA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RY AND CO                                     | NFIDENTIAL-                                 |                  |                                       |                         |                                |          |
|              |                                                                        | 8-Bid                                 |                     |                                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       | Run Date:               | 9/4/03                         |          |
|              |                                                                        | OPB=Other Preject Bid                 |                     | 1                                             | T                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       | Preparers               | GBB/SM                         |          |
|              |                                                                        | Q=Vender Quote                        |                     |                                               | 1                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       | Reviewer                |                                |          |
|              |                                                                        |                                       | -                   |                                               | 1                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       |                         |                                | <b> </b> |
| Aget.<br>No. | - Description                                                          | Score Definition                      | <u>Cost</u><br>Type | Quantity                                      | <u>Unit of</u><br>Measure | Unit Eaulo / Mat.<br>Gast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub:<br>Contract | <u>DOR</u><br>(Furnish)               | <u>DOR</u><br>(install) | <u>Totel</u><br>Projected Cost | 8        |
|              | ROTARY DUMPER AR PLANT - 2,500                                         |                                       |                     |                                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       |                         |                                | F        |
|              | Equipment To Unload Trains                                             |                                       |                     |                                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       |                         |                                |          |
|              | Excevation for rolery car dumper foundation                            |                                       | Est                 | 1                                             | LS.                       | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                             | 1,300,000                                   |                  |                                       |                         | 1,300,000                      | <u> </u> |
|              | Concrete work for rotary car dumper / positioner                       |                                       |                     | 1                                             | 1.9                       | 1,700,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,700,000                                     | 680,000                                     |                  |                                       |                         | 2,380,000                      |          |
|              | Dumper building including control room                                 |                                       | Est                 |                                               | 15                        | 400,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400,000                                       | 100,000                                     |                  |                                       |                         | 560,000                        |          |
|              | Hopper and grizzly                                                     |                                       | Est<br>Est          |                                               |                           | 200,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200,000                                       | 80,000                                      | ···              |                                       |                         | 260,000                        |          |
|              | Dumper dust suppression<br>Rotary car dumper                           |                                       |                     | <u> </u>                                      | 1.5                       | 1,100,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,100,000                                     | 990,000                                     | ·                |                                       |                         | 140,000 2,090,000              |          |
|              | Positioner                                                             | · · · · · · · · · · · · · · · · · · · |                     | <del> ;</del>                                 | LS                        | 1,100,000,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,100,000                                     | 500.000                                     |                  |                                       |                         | 1 800 000                      | <u> </u> |
|              | Bell feeders                                                           |                                       | Est                 | 2                                             | lis -                     | 200,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400,000                                       | 500,000<br>80,000<br>160,000                |                  |                                       |                         | 1,600,000                      | <u>I</u> |
|              | Concretework for conveyor / tunnel                                     |                                       | Est                 | 1                                             | LS                        | 400,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 400,000                                       | 160,000                                     |                  |                                       |                         | 560,000                        |          |
|              | Bell conveyor, 60" wide, 500 # long                                    |                                       | Eat                 | 1                                             | LS                        | 750,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 750,000                                       | 600,000                                     |                  |                                       |                         | 1,350,000                      |          |
|              | Storage dome, 15,000 tons                                              | · · · · · · · · · · · · · · · · · · · | Est                 |                                               | 1.5                       | 150,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150,000                                       | 60,000                                      |                  |                                       |                         | 210,000                        |          |
|              | Foundation for stonage dome                                            |                                       | - En                | <u>↓</u>                                      | LS                        | 100,000,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100,000                                       | 40,000                                      |                  |                                       | <u> </u>                | 280,000                        |          |
|              | Excevation for rectain hopper pit foundation                           |                                       | Est                 | 1                                             | LS                        | 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                             | 300,000                                     |                  |                                       |                         | 300.000                        |          |
|              | Concrete work for rectain hopper                                       |                                       | Est                 | 1 1                                           | i.s                       | 300,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 300,000                                       | 120,000                                     |                  |                                       | <b></b>                 | 420,000                        | i        |
|              | Hopper and orizzly                                                     |                                       | Est                 | 1                                             | LS                        | 150,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150,000                                       | 60,000                                      |                  |                                       |                         | 210,000                        | <u> </u> |
|              | Beit fesder                                                            | 2 Each                                | Est                 |                                               | L <u>S</u>                | 120,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 120,000                                       | 48,000                                      |                  |                                       |                         | 168,000                        | 1        |
|              | Concretework for conveyor / tunnel                                     |                                       | Est.                |                                               | LS                        | 100,000,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100,000                                       | 40,000                                      |                  |                                       |                         | 140,000                        |          |
|              | Belt conveyor, 45° wide, 1000 ft long<br>Diverter gale on lop of alloe | · · · · · · · · · · · · · · · · · · · | Est                 |                                               | LS                        | 1,000,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1,000,000                                     | 400,000                                     |                  |                                       | ļ                       | 1,400,000                      |          |
|              | Transfer conveyor on top of silos, 45° wide, 50 ft                     |                                       | Est                 | <u> </u>                                      | LS                        | \$90,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30,000                                        | 12,000                                      |                  |                                       |                         | 42,000                         |          |
| :            | Modification on top of the allo                                        |                                       | Ē                   | 1                                             | LS                        | 50,000,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50,000                                        | 20,000                                      |                  |                                       |                         | 70.000                         | ┝┯       |
| 5  ==        | Foundation work for conveyors                                          |                                       | Est                 | 1                                             | LS                        | 30,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30,000                                        | 24,000                                      |                  |                                       |                         | 54,000                         | └──      |
|              | Dust suppression for belt conveyors                                    |                                       | Est                 | 1                                             | LS                        | 200,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200,000                                       | 80,000                                      |                  |                                       |                         | 280,000                        |          |
|              | Fire protection for conveyors                                          |                                       | Est                 | 1                                             | LŠ                        | 75,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 75,000                                        | 75,000                                      |                  |                                       |                         | 150,000                        |          |
|              | HVAC for dumper pit and transfer house                                 |                                       | Est                 | 1                                             | LS                        | 200,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200,000                                       | 80,000                                      |                  |                                       |                         | 280,000                        |          |
|              | Sump pump system                                                       |                                       | Eat                 | <u>                                      </u> | LS                        | 50,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50,000                                        | 20,000                                      |                  |                                       |                         | 70,000                         | <b></b>  |
|              | Hoists and trolleys                                                    | 10000 LF                              | <u>Est</u>          |                                               |                           | \$6,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>50,000</u><br>800,000                      | 20,000 800,000                              |                  |                                       |                         | 70,000                         | ┢───     |
|              | Loader / dozer                                                         |                                       | Est                 | <u> </u>                                      | LS                        | 750,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 750,000                                       | 000,000                                     |                  | <u> </u>                              |                         | 1,600,000                      | <b> </b> |
|              | Temporary Coffer Dam                                                   |                                       | Est                 |                                               | LS                        | 500,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500,000                                       | 1.042.000                                   |                  | · · · · · · · · · · · · · · · · · · · |                         |                                | <u> </u> |
|              | Dewatering                                                             |                                       | Est                 |                                               | LS                        | 2,000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2,000                                         | 238,000                                     |                  |                                       |                         | 1,542,000<br>238,000           | <u> </u> |
|              | Electrical - Aux, Power - 13,8 KV                                      |                                       | +                   |                                               |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                             |                  |                                       |                         |                                |          |

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|--------|---------------------------------------------------|--------------------------------------|---------------------|----------|--------------------|---------------------------|------------------------------------------------|---------------------------------------------|----------------------------------------|-------------------------|--------------------------|--------------------------------|----------|
| rgent  | & Lundy LLC                                       |                                      |                     |          |                    |                           | Polk Station                                   |                                             |                                        |                         | Project No.:             | 08478-019                      |          |
| Chic   |                                                   |                                      |                     |          |                    |                           | Rail Delivery                                  | ,                                           | 1                                      |                         | Dates                    | 94/03                          |          |
|        | · · · · · · · · · · · · · · · · · · ·             | Cost Type:                           |                     | <u> </u> |                    | On                        | der of Magnit                                  |                                             | 1                                      | <u> </u>                |                          |                                |          |
|        |                                                   | Ret-Rationalised                     |                     | 1        |                    | -PRELIMINA                | RY AND CO                                      | FIDENTIAL                                   |                                        |                         |                          | <u>├</u> ┩                     | /        |
|        |                                                   | 8-84                                 |                     | i        | 1 ·····            |                           | 1                                              |                                             |                                        |                         | Run Oale:                | 8400                           |          |
|        |                                                   | OPB-Other Project Bid                |                     |          | 1                  | [                         |                                                |                                             | í                                      |                         | Preserve:                |                                | <u> </u> |
|        |                                                   | Q=Vender Quete                       |                     | <u> </u> |                    |                           |                                                |                                             |                                        | · ··· ··                | Reviewer:                |                                |          |
|        |                                                   |                                      |                     |          |                    | 1                         | <b></b>                                        |                                             | <b>-</b>                               |                         | POPYIOUPET:              |                                |          |
| NO.    | Description                                       | Scoce Definition                     | <u>Cost</u><br>Type | Quantity | Unit of<br>Measure | Unit Equip./ Mat.<br>Cost | <u>Iotal.</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract<br>1           | <u>DOR</u><br>(Eurnish) | <u>por:</u><br>(Install) | <u>Total</u><br>Prolected Cost | Sub-Tol  |
|        |                                                   |                                      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                |          |
|        | ROTARY DUMPER AR PLANT - 2,500<br>TPH             |                                      |                     |          |                    | ł                         |                                                |                                             |                                        |                         |                          |                                | •        |
|        | Vacuum Circuit Breaker and Cubicles               |                                      | Est                 | 2        | EA                 | 25,000.00                 | 50,000                                         | 3,000                                       |                                        |                         |                          | 53,000                         |          |
|        | 480 V Transformer                                 | includes Sellichgear                 | Est                 | 2        | Ea                 | 150,000,00                | 300,000                                        | 28,000                                      |                                        |                         |                          | 328,000                        |          |
|        | MCC                                               | 480 V (90 Motors)                    | Est                 |          | EA                 | 40,000.00                 | 160,000                                        | 42,000                                      |                                        |                         |                          | 202,000                        |          |
|        | Trays                                             | Treys (Transformer Feed)             | Est                 | 2,000    | LF                 |                           |                                                |                                             |                                        |                         |                          |                                |          |
|        |                                                   |                                      | _                   |          | · · · · · ·        | 30,00                     | 60,000                                         | 58,000                                      |                                        |                         |                          | 118,000                        |          |
|        | Conduits                                          | Conduits (500 LF typ per mater feed) | Est                 | 25,000   | ւԲ                 | 3.00                      | 75,000                                         | .216,000                                    |                                        |                         |                          | 291,000                        |          |
|        | Fransformar Feeder Cable                          | MV-80                                | Est                 | 2,000    | LF                 | 8.00                      | 16,000                                         | 40,000                                      |                                        |                         |                          | 56,000                         |          |
|        | Wining                                            | 3/C #2 - 800 L# per motor            | Est                 | 25,000   | ម                  | 5.00                      | 125,000                                        | 398,000                                     |                                        |                         |                          | 523,000                        |          |
| $\sim$ | Transformer Firewalls                             | 2 Transfer                           | Est                 |          | :: <u></u>         | 30.000.00                 | 30,000                                         | <u></u>                                     |                                        |                         |                          |                                | <u> </u> |
| 5      |                                                   |                                      |                     |          | <u> </u>           | 30,000.00                 |                                                | 9,000                                       |                                        |                         |                          | 39,000                         | <u> </u> |
| Z      | Sectrical Building - Pre Fabricated - Complete    | Includes foundations                 | Est                 | 1.       | LS                 | 110,000.00                | 110.000                                        | 22.000                                      | <u>**</u>                              | ······                  |                          | 132,000                        |          |
| _      |                                                   |                                      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                |          |
| —-P    | Conveyor Lighting                                 | 1500 LF                              | Est                 |          | LS                 | 21,000.00                 | 21,000                                         | 24,000                                      |                                        |                         |                          | 45,000                         |          |
|        | Control & Instrumentation                         |                                      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          | ┟─────╀                        | 40       |
|        | CS Upprages                                       | 6 VO's per Motor                     | Est                 |          | LS                 | 175.000.00                | 175.000                                        | 175.000                                     |                                        |                         |                          | 350,000                        |          |
|        | DCS BOP Equipment                                 |                                      | Est                 | 1        | LS                 | 25,000.00                 | 25,000                                         | 25,000                                      |                                        |                         |                          | 50,000                         |          |
|        | ocally Mounted Instruments                        |                                      | E#                  | 1        | LŚ                 | 1,500.00                  | 2,000                                          | 4,000                                       |                                        |                         |                          | 6,000                          |          |
|        | SOP Items                                         | _ <del></del>                        |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                |          |
|        |                                                   |                                      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                | 582      |
|        | ire Protection Upgrade                            | 500 UF                               | Est                 |          | LS                 | 47,500.00                 | 48,000                                         | 42,000                                      |                                        |                         |                          | 90,000                         |          |
|        | Relocation of Wellands                            | 8 Acres                              | <u> </u>            |          |                    | 5,000,00                  | 1,000                                          | 6,000<br>135,000                            | —————————————————————————————————————— |                         |                          | 7,000                          |          |
| (      | Inderground Utility Identification and Relocation | Tamps - Allowance                    | Eat                 |          | is l               | 12,500.00                 | 13,000                                         | 135,000                                     |                                        | •                       |                          | 140,000                        |          |
|        |                                                   | Allowence                            | Est                 | 1        | LS                 | 26,000.00                 | 25,000                                         | 25,000                                      |                                        | ·····                   |                          | 50,000                         |          |
|        | diustment for FL Building Code                    |                                      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                | M        |
|        | Neel @ 7%                                         | Applies to Estimated Steel Cost      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                |          |
|        | Concrete C 10%                                    | Applies to Estimated Steel Cost      | Est<br>Est          | 1        |                    |                           | <u>0</u>                                       | 145,670                                     |                                        |                         |                          | 145,670                        |          |
|        |                                                   |                                      |                     |          | **.                |                           |                                                | 124,860                                     |                                        |                         |                          | 124,880                        |          |
| -      | lub-Total                                         |                                      |                     |          |                    |                           | 12,348,000                                     | 9,721,530                                   |                                        |                         |                          | 22,069,530                     |          |
|        | Other Costs/Adjustments                           |                                      |                     |          |                    |                           |                                                |                                             |                                        |                         |                          |                                | 1,458    |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 36 OF 107

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**LUNHUENHAL** 

| EXHIE        | NT: 20-1                                     |                                                |               |          |                    |                           | Tampa Elect                                   | ric                                                                         |                  |                         | Entimete No.:     | TYYYY                                  | T                                     |
|--------------|----------------------------------------------|------------------------------------------------|---------------|----------|--------------------|---------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|------------------|-------------------------|-------------------|----------------------------------------|---------------------------------------|
| Sergen       | t & Lundy <sup>(L2</sup>                     |                                                |               |          | 1                  |                           | Polk Station                                  |                                                                             |                  |                         |                   | 09476-019                              | <u> </u>                              |
| Chi          | cago                                         |                                                |               |          | 1                  | ·                         | Rail Deliver                                  |                                                                             | +                |                         |                   | : 09476-019                            | <u> </u>                              |
|              |                                              | Geet Type:                                     |               |          |                    | Or                        | der of Magni                                  |                                                                             | 1                |                         |                   |                                        | <u> </u>                              |
|              |                                              | Est-Estimated                                  |               |          |                    | -PRELIMINA                | ARY AND CO                                    | NFIDENTIAL-                                                                 |                  |                         | <u>+</u>          | <b></b>                                | ┟┅────                                |
|              |                                              | 8-614                                          |               |          |                    |                           | 1                                             | T                                                                           | +                | ·                       | Run Date:         | 94493                                  | <u>├</u> ────                         |
|              |                                              | OPS-Other Project Bid                          |               |          |                    |                           |                                               |                                                                             |                  | ···· · ·                |                   | GRE/SM                                 |                                       |
| ,            |                                              | C=Vender Quela                                 |               |          |                    |                           | 1                                             | T                                                                           | t                | ·····                   | Reviewer;         |                                        |                                       |
|              |                                              |                                                | <u> </u>      |          |                    |                           |                                               |                                                                             |                  |                         |                   |                                        |                                       |
| Acct.<br>No. | Description                                  | Scope Definition                               | Cost.<br>Ives | Quantity | Unit of<br>Measure | Unit Equip./ Mat.<br>Cost | <u>Total</u><br>Equipment or<br>Material Gost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | Sub:<br>Contract | <u>DOR</u><br>(Eurnish) | DOR.<br>(Install) | <u>Totel</u><br>Projected Cost         | Sub-Tot                               |
|              | ROTARY DUMPER AR PLANT - 2,500               |                                                |               |          |                    |                           |                                               |                                                                             |                  |                         |                   |                                        |                                       |
| ·            | ТРН                                          |                                                |               |          |                    |                           |                                               |                                                                             |                  | •                       |                   |                                        |                                       |
|              |                                              |                                                |               |          |                    |                           | ·····                                         |                                                                             |                  |                         |                   |                                        | · · · · · · · · · · · · · · · · · · · |
|              | Contractor's General & Administrative Costa  | Besed 5% of Equip, Materiel,<br>and Labor      |               |          |                    |                           |                                               | 486,000                                                                     |                  |                         | · I               | 488,000                                | •<br>  •                              |
|              | Contractor's Profit                          | Based 10% of Equip,<br>Material, and Labor     |               |          |                    |                           |                                               | 972,000                                                                     |                  | · . <u> </u>            |                   |                                        |                                       |
|              |                                              |                                                |               |          |                    |                           |                                               | 072,000                                                                     |                  |                         |                   | 972,000                                |                                       |
|              | Total Equipment, Material and Labor<br>Costs |                                                |               |          |                    |                           | 12,348,000                                    | 11,179,530                                                                  |                  |                         |                   | 23,527 <b>,530</b>                     | 23,527                                |
|              |                                              | · · · · · · · · · · · · · · · · · · ·          |               |          |                    |                           |                                               |                                                                             |                  |                         |                   |                                        |                                       |
|              | Freight, Duties, Taxes, Etc.                 |                                                |               |          |                    |                           |                                               |                                                                             | I                |                         | <b>—</b> —        |                                        | ······                                |
|              | Preight-ExWorks To Site                      | Included in Material &<br>Equipment Costs      |               |          |                    |                           |                                               |                                                                             |                  |                         |                   | Included in<br>Material &<br>Equipment | -*                                    |
|              | Texes - Sales/Use/VAT/Susiness/Etc.          | Not Included                                   |               |          |                    |                           |                                               |                                                                             |                  |                         | h                 | Costs                                  |                                       |
|              |                                              |                                                |               |          |                    |                           |                                               |                                                                             | ł                |                         | ť                 | Not Included                           |                                       |
|              | Total Direct Project Costs                   |                                                |               |          |                    |                           | 12,348,000                                    | 11,179,530                                                                  |                  |                         |                   | 23,527,530                             | 23,527                                |
|              | Indirect Costs                               |                                                |               |          |                    |                           |                                               |                                                                             |                  | <b> </b>                |                   |                                        | 2,404                                 |
|              | Insurance<br>Builders Risk                   |                                                |               |          |                    |                           | —                                             | ł                                                                           |                  |                         |                   |                                        | .,4V4,                                |
| ·            |                                              |                                                |               |          |                    |                           |                                               | +                                                                           | <u> </u>         |                         |                   | Not Included                           | <del></del>                           |
|              | Engineering/Procurement                      | 6                                              |               |          |                    |                           |                                               |                                                                             |                  |                         | f                 | 1,646,927                              | ·                                     |
|              | Tampa Electric Interface with A/E            | Project Mgmnt, Eng and<br>Construction Support |               |          |                    |                           |                                               |                                                                             |                  |                         |                   | 164,693                                |                                       |
|              | Tampa Electric Management of EPC Contractor  | Two men for 2 yrs @ \$75K.                     |               |          |                    |                           |                                               |                                                                             |                  | · ·                     |                   | 300,000                                |                                       |
|              | Permits and Feee                             | Tampa                                          |               |          |                    |                           | ····                                          |                                                                             | <u> </u>         | ł                       |                   |                                        |                                       |
|              |                                              |                                                |               |          |                    |                           |                                               |                                                                             |                  |                         | ł                 | 293,000                                |                                       |

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DOCKET NO. 631633-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 37 OF 107

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| XHIR    | T: 2D-1                                            |                                        |              | 1        |                    | 1                                       | ampa Electr                                   | ic                                                            |                   |                        | stimete No.       | 2000                    |                                       |
|---------|----------------------------------------------------|----------------------------------------|--------------|----------|--------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------------------------|-------------------|------------------------|-------------------|-------------------------|---------------------------------------|
| Concent | & Lundy LLC                                        |                                        |              |          |                    |                                         | Polk Station                                  |                                                               |                   |                        | Project No.:      | 05476-015               |                                       |
| Chic    |                                                    | ······································ |              |          |                    |                                         | Rail Delivery                                 | ,                                                             |                   |                        | Dete              | 9/4/03                  |                                       |
|         |                                                    | Cast Type:                             | 1            |          |                    | Ord                                     | ier of Magnit                                 | ude                                                           |                   |                        |                   |                         |                                       |
|         |                                                    | Est-Estimand                           |              |          |                    | -PRELIMINA                              | RY AND CO                                     | FIDENTIAL-                                                    |                   |                        |                   |                         |                                       |
|         |                                                    | B-814                                  |              |          |                    |                                         |                                               |                                                               |                   |                        | Run Date:         |                         | · · · · · · · · · · · · · · · · · · · |
|         |                                                    | OPB-Other Project Bid                  |              |          |                    |                                         |                                               |                                                               |                   |                        | Properer:         | GB8/SM                  |                                       |
|         |                                                    | Q=Vender Quete                         |              |          |                    |                                         |                                               |                                                               |                   |                        | Reviewer          |                         | <u> </u>                              |
|         |                                                    |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   |                         |                                       |
| Acct.   | Pascription                                        | Score Definition                       | Cost<br>Type | Quantity | Unit of<br>Measure | <u>Unit Equip / Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br><u>&amp; Erection</u><br><u>Cost</u> | Suit-<br>Contract | <u>DOR</u><br>(Fumish) | DOR.<br>(Instali) | Total<br>Projected Cost | Sub-Tota                              |
|         |                                                    |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   |                         |                                       |
|         | ROTARY DUMPER AR PLANT - 2,500<br>TPH              |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   |                         |                                       |
|         | Total Indirect Project Gosts                       |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | 2,404,620               |                                       |
|         | Escalation                                         | Not Included                           |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | Not Included            |                                       |
|         |                                                    |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   |                         |                                       |
|         | EPC Costs                                          | · · ·                                  |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | 3,423,256               | 3,423                                 |
|         | General & Administrative (G&A) @ 5% of Dirct Costs |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | 1,178,377               |                                       |
|         | Efficacy Insurance @ .8% of Direct Costs           |                                        |              | <b> </b> |                    |                                         |                                               |                                                               | ····              |                        |                   | 188,220                 |                                       |
|         | Fee @ 8% of Direct Costs                           | Profit and Home Office<br>Overhead     |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | 1,882,202               |                                       |
|         | Performance Bond @ .75% of Direct Costs            |                                        |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | 176,455                 | <u> </u>                              |
|         | Contingency                                        |                                        | <u> </u>     |          |                    |                                         |                                               |                                                               |                   |                        |                   |                         | 5,871                                 |
|         |                                                    | 20% of overall cost                    |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | 5,871,061               |                                       |
|         | Interest During Construction (AFUDC)               | Not Included                           |              |          |                    |                                         |                                               |                                                               |                   |                        |                   | Not included            | <u> </u>                              |
|         |                                                    |                                        |              |          |                    | · · · · · · · · · · · · · · · · · · ·   |                                               |                                                               |                   |                        |                   |                         |                                       |
|         | Total Project Cost                                 |                                        | 1            | [        | 1                  | l                                       | [                                             |                                                               |                   |                        |                   | 35,226,487              | 35,226                                |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 38 OF 107

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FOR PRODUCTION OF DOCUMENTS

### LUNFIDENTIAL

IAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

# EXHIBIT 20-2

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 39 OF 107

CUNTIDENTIAL

|              |                                                                             |                       |               |                 |                    |                           | Tampa Electr                                  |                                                                             |                                         |                 | Estimate No.      |                                |                |
|--------------|-----------------------------------------------------------------------------|-----------------------|---------------|-----------------|--------------------|---------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------|-----------------|-------------------|--------------------------------|----------------|
|              | & Lundy LLC                                                                 |                       |               |                 |                    | 1                         | Polk Station                                  |                                                                             |                                         | 1               | Project No.       | 09476-019                      | 1              |
|              | 880                                                                         |                       |               | 1               | :                  |                           | Rail Delivery                                 |                                                                             | ) — — — — — — — — — — — — — — — — — — — | 1               | Date              | 9/4/03                         | [              |
|              |                                                                             | Cest Type:            |               |                 |                    | On                        | ler of Magnit                                 |                                                                             |                                         |                 |                   | DRAFT                          | ┣              |
|              |                                                                             | Est-Estimated         |               | 1               |                    | -DREI MINA                | RY AND CO                                     | VEIDENTIAL                                                                  |                                         | {               | +                 |                                | <u> </u> -     |
|              |                                                                             | 0-6ig                 |               | <u> </u>        |                    | - I I CELMIN              |                                               |                                                                             |                                         | <u> </u>        |                   | [                              | <u> </u>       |
|              |                                                                             | OPB-Other Project Bid |               |                 |                    |                           | <u>↓</u>                                      |                                                                             |                                         | <u> </u>        | Run Date:         |                                | <u> </u>       |
|              | ······                                                                      | Qevender Quote        |               | ·{              |                    |                           |                                               |                                                                             | ·                                       |                 | Prepareit         | GBB/SM                         | L-             |
| i            |                                                                             | Churchuser Chore      |               |                 | ·                  |                           |                                               |                                                                             |                                         |                 | Reviewer.         | L                              | <u> </u>       |
|              |                                                                             |                       |               | <u>}</u>        | <u>}</u>           | <u>}</u>                  |                                               |                                                                             |                                         | <u> </u>        |                   |                                |                |
| veet.<br>No. | <u>Qescription</u>                                                          | Scope Definition      | Çost.<br>İype | Quantity        | Unit of<br>Measure | Unit Equip / Mat.<br>Cost | <u>Total</u><br>Equipment or<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Frection</u><br><u>Cost</u> | Sub-<br>Contract                        | DOR<br>(Fumish) | DOB.<br>(Install) | <u>Tota)</u><br>Proiected Cost | <u>_ Sub-1</u> |
|              | BOTTOM DUMPER AT PLANT - 1,500<br>TPH                                       |                       |               |                 |                    |                           |                                               |                                                                             |                                         |                 |                   |                                |                |
|              | Equipment To Unioad Trains                                                  |                       | ╂╌──          | <u> </u>        |                    |                           |                                               |                                                                             |                                         |                 |                   |                                | 11.6           |
|              | Excavation for track hopper pit foundation                                  | <u> </u>              | Est           | <u> </u>        | LS                 | 0.00                      |                                               | 500.000                                                                     |                                         | l               | <b> </b>          | 500,000                        |                |
|              | Concrete work for track hopper                                              | 1                     | Est           | 1               | LS                 | 400,000,00                | 400,000                                       | 160,000                                                                     |                                         | [               |                   | 560,000                        | <u> </u>       |
|              | Track hopper building                                                       | 1                     | Est           | 1_1_            | LS<br>LS           | 120,000.00                | 120,000                                       | 48.000                                                                      |                                         | ł               |                   | 168,000                        |                |
|              | Car shaker / support steel                                                  |                       | Est           | 1               |                    | 60,000,00                 | 60,000                                        | 24,000                                                                      |                                         |                 | [                 | 84.000                         |                |
|              | Hopper and grizzly                                                          |                       | Eet           | <u> </u>        | LS                 | 150,000.00                | 150,000                                       | 60,000                                                                      |                                         |                 |                   | 210,000                        |                |
|              | Track hopper dust suppression                                               |                       | Est           | 1               | LS                 | 100,000.00                | 100,000                                       | 40,000                                                                      |                                         |                 |                   | 140,000                        |                |
|              | Concretework for conveyor / turnel                                          | 2 EACH                | Est           | · · ·           |                    | 120,000.00                | 120,000                                       | 48,000                                                                      |                                         |                 |                   | 168,000                        |                |
|              | Belt conveyor, 48" wide, 500 ft long                                        | ·{                    | E             | ┟──┼──          | LS                 | 190,000.00                | 150,000                                       | 60,000                                                                      |                                         |                 |                   | 210,000                        | L              |
|              | Storage dome, 15,000 tons                                                   | <u></u>               | Est           | <del>  ; </del> | LS                 | 150,000.00                | 150,000                                       | 480,000                                                                     | _                                       |                 |                   | 1,080,000                      | ·              |
|              | Foundation for storage dome                                                 | 1                     | Est           | <u> </u>        | LS                 | 200,000,00                | 200,000                                       | 80,000                                                                      |                                         |                 |                   | 210,000 280,000                |                |
|              | Lowering well inside dome                                                   | 1                     | Est           | 1               | LS                 | 100,000.00                | 100,000                                       | 40,000                                                                      |                                         |                 |                   | 140,000                        |                |
|              | Excevation for recisim hopper pit foundation                                |                       | Est           | 9               | LS                 | 0.00                      | 00,000                                        | 300,000                                                                     |                                         | ·······         |                   | 300.000                        |                |
|              | Concrete work for recisim hopper                                            |                       | Eat           | 1               | LS                 | 300,000,00                | 300.000                                       | 120,000                                                                     |                                         |                 |                   | 420,000                        |                |
|              | Hopper and orizoly                                                          |                       | Eet           | 1               | LS                 | 150,000.00                | 150,000                                       | 60,000                                                                      |                                         |                 |                   | 210.000                        |                |
|              | Belt foeder                                                                 | 2 EACH                | Est           | <u> </u>        | LS                 | 120,000.00                | 120,000                                       | 48,000                                                                      |                                         |                 |                   | 168,000                        |                |
| ·            | Concretework for conveyor / tunnel<br>Belt conveyor, 35' wide, 1000 ft long | <u> </u>              | Est           |                 | LS                 | 100,000.00                | 100,000                                       | 40,000                                                                      |                                         |                 |                   | 140,000                        |                |
|              | Overter gate on top of allos                                                | <u> </u>              | Est.          |                 | LS<br>LS           | 1,000,000.00              | 1,000,000                                     | 400,000                                                                     |                                         |                 |                   | 1,400,000                      |                |
|              | Transfer conveyor on top of slips, 36" wide, 50 ft                          | f                     | <u>Est</u>    | 1               |                    | 30,000.00                 | 30,000                                        | 12,000                                                                      |                                         |                 |                   | 42,000                         |                |
|              | Modification on top of the silo                                             | I                     | End E         | 1               | LS                 | 100,000.00                | 100,000                                       | 40,000                                                                      |                                         |                 |                   | 140,000                        |                |
|              | Foundation work for conveyors                                               | t                     | Est           |                 | LS                 | 50,000.00                 | <u>50,000</u><br>30,000                       | 20,000                                                                      |                                         |                 |                   | 70,000                         |                |
|              | Dust suppression for belt conveyors                                         | 1                     | Ê             | 1               | is                 | 200,000,00                | 200,000                                       |                                                                             |                                         |                 | ··                | 54,000                         | _ <b></b>      |
|              | Fine protection for conveyors                                               | T                     | En            |                 | LŜ                 | 75,000.00                 | 75.000                                        | 75,000                                                                      |                                         |                 |                   | 280,000                        |                |
|              | HVAC for dumper pit and transfer house                                      | L                     | Eat           | 1               | LS                 | 200,000,00                | 200,000                                       | 80,000                                                                      |                                         |                 |                   | 280,000                        |                |
|              | Sumo pump system                                                            |                       | Est           | 1               | LS                 | \$0,000.00                | 50,000                                        | 20,000                                                                      |                                         |                 |                   | 70.000                         |                |
|              | Holets and trolleys                                                         |                       | Est           | 1               | LS                 | 50,000.00                 | 50,000                                        | 20.000                                                                      |                                         |                 |                   | 70,000                         |                |
|              | Loop track cost                                                             | 8000 LF               | Est           | 1               | LS                 | 800,000.00                | 800,000                                       | 800,000                                                                     |                                         |                 |                   | 1,600,000                      | _              |
|              | Lorder / dozer                                                              | Į                     | <u></u>       | 1               | LS                 | 750,000.00                | 750,000                                       | 0                                                                           |                                         |                 |                   | 750.000                        |                |
|              | Temporary Coffer Dam                                                        | <u> </u>              | 트             |                 | <u>us</u>          | 500,000.00                | 500,000                                       | 1,042,000                                                                   |                                         |                 |                   | 1,542,000                      |                |
| ľ            |                                                                             |                       | Est           | <u> </u>        | L <u>8</u>         | 2,000.00                  | 2,000                                         | 236,000                                                                     |                                         |                 |                   | 238,000                        |                |
|              | Electrical - Aux. Power - 13.8 KV                                           |                       |               |                 |                    |                           |                                               |                                                                             |                                         |                 |                   |                                | 1,7            |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 40 OF 107

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| cct      | Lundy <sup>(L‡</sup>                                                    | Cost Type:<br>Est=Estimated<br>9=81d   |              |             |                    |                           | Polk Station                                  |                                    |                       |                  | Project No.:      | 88476-015                      |               |
|----------|-------------------------------------------------------------------------|----------------------------------------|--------------|-------------|--------------------|---------------------------|-----------------------------------------------|------------------------------------|-----------------------|------------------|-------------------|--------------------------------|---------------|
| Chicago  |                                                                         | Est-Calmated                           |              |             |                    | 1                         |                                               |                                    |                       |                  |                   |                                |               |
|          |                                                                         | Est-Calmated                           |              | 1           |                    | 1                         | Rail Delivery                                 | 1                                  | [                     |                  | Deter             | : 9/4/03                       |               |
|          |                                                                         |                                        |              | 1           |                    | Orc                       | ter of Magnit                                 | ude                                |                       |                  | <u> </u>          | ORAFT                          |               |
|          |                                                                         | 9-8/4                                  |              | 1           | <u> </u>           |                           |                                               | NFIDENTIAL-                        |                       |                  | <u> </u>          | f                              |               |
|          |                                                                         |                                        |              |             |                    |                           | 1                                             |                                    |                       |                  | Run Date:         | 0/4/03                         |               |
|          |                                                                         | OP8=Other Project Bid                  |              | f           | <u>†</u>           |                           |                                               |                                    |                       |                  | Preparer:         |                                |               |
|          |                                                                         | Q-Vender Quete                         |              |             | t                  |                           |                                               |                                    |                       |                  | Reviewer:         | 00000                          |               |
|          |                                                                         |                                        | <u> </u>     |             | <u> </u>           |                           | <u> </u>                                      |                                    |                       |                  | Hanadel:          |                                | h             |
|          |                                                                         |                                        |              |             |                    |                           |                                               | Total                              |                       |                  | <b> </b>          |                                |               |
| Ne.      | Description                                                             | <u>Scope Definition</u>                | Cost<br>Type | Quantity    | Unit of<br>Measure | Unit Equip.( Mat.<br>Cosi | <u>Totei</u><br>Equipment or<br>Material Cost | Construction<br>& Erection<br>Cost | Sub:<br>Contract<br>E | DOR<br>(Furnish) | DOR.<br>(Install) | <u>Total</u><br>Proiected Cost | <u>Sub-To</u> |
|          |                                                                         |                                        |              |             |                    |                           |                                               |                                    |                       |                  | <u> </u>          |                                | )             |
| B(<br>T  | OTTOM DUMPER AT PLANT - 1,500<br>PH                                     |                                        |              |             |                    |                           |                                               |                                    |                       |                  |                   |                                |               |
|          | 0 V Transformer                                                         | Includes Switchgear                    | Ēsi          | 2           | Ea                 | 150,000.00                |                                               | 28,000                             |                       |                  |                   | 328,000                        | ·             |
| MC       |                                                                         | 480 V (50 Motors)                      | Est          | 4           | EA                 | 40,000.00                 |                                               | 42,000                             |                       |                  |                   | 202,000                        |               |
|          |                                                                         |                                        |              |             |                    |                           |                                               |                                    |                       |                  |                   |                                |               |
| Tre      |                                                                         | Trays (Transformer Feed)               | Est          | 2,000       | LF                 | 30.00                     | 60,000                                        | 58,000                             |                       |                  | <b>{</b> !        | 118,000                        | ·             |
| Co       | onduits                                                                 | Concluits (900 LF typ per motor facel) | Est          | 25,000      | LF                 | 3.00                      |                                               | 216,000                            |                       |                  |                   | 291,000                        | 1 .           |
|          | ensformer Feeder Cable                                                  | MV-80                                  | Ést          | 2,000       | LF                 | 8.00                      |                                               | 40,000                             |                       |                  |                   | 56,000                         |               |
| MV       | / Wining                                                                | MC #2 - 500 UF per motor               | Est          | 25,000      | ĻF                 | 5,00                      | 125,000                                       | 398,000                            |                       |                  |                   | 523,000                        |               |
|          | enstormer Firewalls                                                     | 2 Transf.                              | Est          |             | LT                 | 30,000,00                 | 30,000                                        | 9,000                              |                       |                  |                   |                                |               |
| <u> </u> |                                                                         | × 174100.                              | <u>, (34</u> | <u> </u>    | <u> </u>           | 30,000.00                 | 30,000                                        | 8,000                              |                       |                  |                   |                                | <u> </u>      |
| / EM     | ectrical Building - Pre Fabricated - Complete                           | Includes IOUTICASION                   | -ER          |             | (S                 | 110,000.00                | 110,000                                       | 22,000                             |                       |                  |                   | 132,000                        |               |
| _/       |                                                                         |                                        |              |             |                    |                           |                                               |                                    |                       |                  |                   |                                |               |
| 1.00     | nveyor Lighting                                                         | 1500 LF                                | Est          | 1           | LS                 | 21,000.00                 | 21,000                                        | 24,000                             |                       |                  |                   | 45,000                         |               |
| ┥┥┙      |                                                                         |                                        |              | · · · · · · |                    |                           |                                               |                                    |                       |                  | L                 |                                |               |
|          | ontrol & Instrumentation                                                |                                        |              |             | 4                  |                           |                                               |                                    |                       |                  | 1 1               | 1 1                            | 4             |
| 1 66     | S Upgrages                                                              | 6 I/O's per Motor                      | Est          | 1           | LS                 | 175.000.00                | 175,000                                       | 175,000                            |                       |                  | <b> </b>          | 350,000                        |               |
| T bo     | 25 BOP Equipment                                                        | V. 10 0                                | Est          | 1           | is                 | 25,000.00                 |                                               | 25,000                             | · · ·                 |                  |                   | 50,000                         |               |
| 1        | cally Mounted Instruments                                               |                                        | Est          | 1           | LS                 | 1,500.00                  | 2,000                                         | 4,000                              |                       |                  |                   | 6,000                          |               |
| <u> </u> |                                                                         |                                        |              |             |                    |                           |                                               |                                    |                       |                  |                   | []                             |               |
|          | OP Items                                                                |                                        |              |             |                    |                           |                                               |                                    |                       |                  |                   |                                | 4             |
|          |                                                                         | 500 LF                                 | Est          |             | LS                 | 47,500.00                 | 48,000                                        | 42,000                             |                       |                  |                   | 90,000                         |               |
|          |                                                                         | 1900 LF                                | Est          | 1           | 15                 | 1,000.00                  | 1,000                                         | 6,000                              |                       |                  |                   | 7,000                          |               |
|          | location of Wetlands<br>denground Utility Identification and Relocation | 8 Acres<br>Tamps - Allowance           | Est          | 1           | <u>ទេ</u>          | 5,000.00                  | 5,000<br>13,000                               | 135,000                            |                       |                  |                   | 140,000                        |               |
| Ge       | menti Services Interconnection (water & air, etc.)                      | Allowance                              | Est          |             | LS<br>LS           | 25,000.00                 | 25.000                                        | 25.000                             |                       |                  | <b> −−−−</b>      | 25,000                         |               |
|          |                                                                         |                                        |              |             |                    |                           |                                               | 000                                | ···                   |                  |                   |                                |               |
|          | uniment for FL Building Code                                            |                                        |              |             | -                  |                           |                                               |                                    |                       |                  |                   |                                |               |
|          | ited @ 7%                                                               | Applies to Estimated Steel Cost        | Est          |             | 1.8                |                           |                                               | 86,170                             |                       |                  |                   | 86,170                         |               |
| <u> </u> | concrete @ 10%                                                          | Applies to Estimated Concrete Cost     | Est          | 1           | ខេ                 |                           | 0                                             | 73,860                             |                       |                  |                   | 73,860                         |               |
| Su       | ib-Total                                                                |                                        |              |             |                    |                           | 7,898,000                                     | 6,441,030                          |                       |                  |                   | 14,339,030                     |               |
| 0        | ther Costs/Adjustments                                                  | · · · · · · · · · · · · · · · · · · ·  | ·            |             |                    |                           |                                               |                                    |                       |                  |                   |                                | 9             |

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DOCKET NO. 031033-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| Sangen       | BIT: 2D-2<br>It & Lundy <sup>LLC</sup>                                 |                                                |                     |            |                    |                                       | Tampa Elect                            | ric                                         |                  |                  | Estimate No.            | : 100001                               | 1               |
|--------------|------------------------------------------------------------------------|------------------------------------------------|---------------------|------------|--------------------|---------------------------------------|----------------------------------------|---------------------------------------------|------------------|------------------|-------------------------|----------------------------------------|-----------------|
|              | cago                                                                   |                                                |                     |            |                    |                                       | Polk Station                           |                                             |                  |                  | Project No.             | : 09476-019                            |                 |
|              |                                                                        | Cent Type:                                     |                     |            |                    |                                       | Rail Deliver                           | у                                           |                  |                  | Date                    | 9/4/03                                 |                 |
|              |                                                                        | Ent-Estimated                                  |                     |            | <u> </u>           | Or                                    | der of Magni                           | tude                                        | 1                |                  | 1                       | ORAFT                                  | <u>↓ .</u>      |
|              |                                                                        |                                                |                     |            | I                  | -PRELIMIN/                            | ARY AND CO                             | NFIDENTIAL                                  |                  |                  |                         | Į                                      | <u> </u>        |
|              |                                                                        | OPS=Other Preject Bid                          |                     | - <u> </u> | ·                  |                                       |                                        | 1                                           | 1                |                  | Run Date                | 9403                                   | <b></b>         |
|              |                                                                        |                                                |                     |            |                    |                                       |                                        |                                             | 1                |                  |                         | GRIEVEN                                |                 |
|              |                                                                        | QeVender Quete                                 | · · · · · ·         |            | <u> </u>           |                                       |                                        |                                             |                  | ·                | Reviewer                |                                        |                 |
|              |                                                                        |                                                |                     |            |                    |                                       |                                        |                                             |                  | <b>-</b>         |                         |                                        | <b> </b>        |
| Acct.<br>No. | Description                                                            | Scope Definition                               | <u>Cost</u><br>Ivpe | Quantity   | Unit of<br>Measure | <u>Unit Eavio/Met.</u><br><u>Cost</u> | Total<br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract | DOR<br>(Furnish) | <u>DOR</u><br>(instali) | <u>Total</u><br>Projected Cost         | <u>Sub-Tota</u> |
|              |                                                                        |                                                |                     |            |                    |                                       |                                        |                                             | -                |                  |                         |                                        |                 |
|              | BOTTOM DUMPER AT PLANT - 1,500<br>TPH                                  |                                                |                     |            |                    |                                       |                                        | <u> </u>                                    |                  |                  |                         |                                        |                 |
|              | Contractor's General & Administrative Costs                            | Based 5% of Equip, Material,<br>and Labor      |                     |            |                    |                                       |                                        | 322,000                                     |                  |                  |                         | 322,000                                |                 |
|              | Contractor's Profit                                                    | Based 10% of Equip,<br>Meterial, and Labor     |                     |            |                    |                                       |                                        |                                             |                  |                  |                         |                                        | -               |
|              |                                                                        |                                                |                     |            |                    |                                       |                                        | 644,000                                     | ·                |                  |                         | 644,000                                |                 |
|              | Total Equipment, Material and Labor<br>Costs                           |                                                |                     |            |                    |                                       | 7,898,000                              | 7,407,030                                   |                  |                  |                         | 15,305,030                             | 15,305,         |
|              |                                                                        |                                                | •                   |            |                    |                                       |                                        |                                             |                  |                  | ••••                    |                                        |                 |
|              | Freight, Duties, Taxes, Etc.                                           |                                                |                     |            |                    |                                       |                                        |                                             |                  |                  |                         |                                        |                 |
|              | Freight-ExWorks To Sile                                                | Included in Melerial &<br>Equipment Costs      |                     |            |                    |                                       |                                        |                                             |                  |                  |                         | included in<br>Material &<br>Equipment |                 |
|              | Taxes - Sales/Use/VAT/Business/Etc.                                    | Not Included                                   |                     |            | [                  | ······                                |                                        |                                             |                  |                  |                         | Costs                                  |                 |
| !            |                                                                        |                                                |                     |            |                    |                                       |                                        |                                             |                  |                  | ]                       | Not Included                           |                 |
|              | Total Direct Project Costs                                             |                                                |                     |            |                    |                                       | 7,898,000                              | 7,407,030                                   |                  |                  |                         | 15,305,030                             | 15,305,         |
|              | Indirect Costs                                                         |                                                |                     |            |                    |                                       |                                        |                                             |                  |                  |                         |                                        | 4 774           |
|              | Builders Risk                                                          |                                                |                     |            |                    |                                       |                                        |                                             |                  | <u> </u>         |                         |                                        | 1,771,4         |
| i,           | Engineering/Procurement                                                |                                                |                     |            |                    |                                       |                                        |                                             |                  |                  |                         | Vot Included                           |                 |
|              |                                                                        |                                                | I                   |            |                    |                                       |                                        |                                             |                  |                  | ť                       |                                        |                 |
| _            |                                                                        | Project Mgmnt, Eng and<br>Construction Support |                     |            |                    |                                       |                                        |                                             |                  | ·                |                         | 1,071,352                              | ·               |
| h            | Temps Electric Management of EPC Contractor                            | Two men for 2 yrs @ \$75K                      |                     |            |                    |                                       | ~~~                                    |                                             |                  |                  | ——                      |                                        |                 |
|              |                                                                        | Tempe                                          |                     |            | <u> </u>           |                                       |                                        |                                             |                  |                  |                         | 300,000                                |                 |
|              |                                                                        |                                                |                     | <b>-</b> [ |                    |                                       |                                        |                                             |                  |                  |                         | 293,000                                |                 |
| h            | Total indirect Project Costs                                           |                                                |                     |            |                    | ——                                    |                                        |                                             | F                |                  |                         |                                        |                 |
|              | JECT Stollsbort FGDValk Direct Bottern Durve 1800, datableRKT Ealine A |                                                |                     |            |                    |                                       |                                        |                                             | 1                | - F              |                         | 1,771,487                              |                 |

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| larcen       | NT: 20-2<br>t & Lundy LLC                          |                                       |               |          | <u> </u>           |                           | Tampa Elect                                   |                                                                             | T                |                        | Estimate No.     | -10000                         | r          |
|--------------|----------------------------------------------------|---------------------------------------|---------------|----------|--------------------|---------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|------------------|------------------------|------------------|--------------------------------|------------|
| Chi          | Câgo                                               |                                       |               | ·        |                    |                           | Polk Station                                  |                                                                             |                  | <u> </u>               |                  | .: 09478-019                   | ···        |
|              | 1                                                  | Cost Type:                            |               |          |                    |                           | Rail Deliver                                  |                                                                             | 1                |                        |                  |                                | ÷          |
|              |                                                    | Est-Estimated                         |               |          | <u> </u>           | Or                        | der of Magni                                  | lude                                                                        |                  |                        | †                | DRAFT                          | ~          |
|              |                                                    | 8-6M                                  |               | ·        | +                  | -PRELIMINA                | ARY AND CO                                    | NFIDENTIAL                                                                  | ·                |                        | <u> </u>         |                                |            |
|              |                                                    | OPB-Other Project Bid                 |               |          | +                  |                           |                                               |                                                                             |                  |                        | Run Date         | 94403                          |            |
|              |                                                    | Q=Vender Quete                        |               |          | <del> </del>       | ·····                     |                                               |                                                                             | 1                |                        | Proparat         | GOUAN                          |            |
|              |                                                    | 1                                     |               | · · · ·  | <u> </u>           |                           |                                               |                                                                             |                  |                        | Reviewor         |                                |            |
|              |                                                    |                                       | -             | -        |                    |                           | <u></u>                                       |                                                                             |                  |                        |                  |                                | ÷.         |
| Acct.<br>Ng. | Description                                        | Score Definition                      | Cost.<br>IVPR | Guantity | Unit of<br>Measure | Unit Equip./ Met.<br>Cost | <u>Total</u><br>Equipment or<br>Material Cost | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | Sub-<br>Contract | <u>COR</u><br>(Fumish) | DOR<br>(Install) | <u>Total</u><br>Proiected Cost | Sub-Totais |
|              | BOTTOM DUMPER AT PLANT - 1,500                     |                                       | -             |          |                    |                           |                                               |                                                                             |                  |                        |                  |                                |            |
|              | трн                                                |                                       |               |          |                    |                           |                                               |                                                                             |                  | -                      |                  |                                |            |
|              | Escalation                                         | Not Included                          |               |          |                    |                           |                                               |                                                                             |                  |                        |                  |                                |            |
|              | EPC Costs                                          |                                       |               |          |                    |                           |                                               |                                                                             |                  |                        |                  | Not Included                   |            |
|              | General & Administrative (G&A) @ 5% of Dirct Coets |                                       |               |          |                    |                           |                                               |                                                                             |                  | _                      |                  | 2,226,882                      | 2,226,8    |
|              | Efficacy insurance @ .8% of Direct Costs           |                                       |               |          |                    |                           |                                               |                                                                             |                  |                        |                  | 765,252                        |            |
|              |                                                    | Profit and Home Office                |               |          |                    | <u> </u>                  |                                               |                                                                             |                  |                        |                  | 122,440                        |            |
|              |                                                    | Overhead                              |               |          |                    |                           |                                               |                                                                             |                  |                        |                  |                                |            |
|              | Performance Bond @ .75% of Direct Costs            |                                       | · ·           |          |                    |                           |                                               |                                                                             |                  |                        |                  | 1,224,402                      | <u></u>    |
|              | Contingency                                        |                                       |               |          |                    |                           |                                               |                                                                             |                  |                        |                  | 114,788                        |            |
|              |                                                    |                                       |               |          |                    |                           |                                               |                                                                             |                  |                        |                  | <u> </u>                       | 3 868 8    |
|              | Contingency                                        | 20% of overall cost                   |               |          |                    |                           |                                               |                                                                             |                  |                        |                  |                                | 3,860,6    |
|              | Interest During Construction (AFUDC)               | Not Included                          | <u> </u>      |          |                    |                           |                                               |                                                                             |                  |                        |                  | 3,860,680                      | ÷          |
|              |                                                    | · · · · · · · · · · · · · · · · · · · |               |          |                    |                           |                                               |                                                                             |                  |                        |                  | Not Included                   | <u> </u>   |
| ľ            | Total Project Cost                                 | 1                                     | T             |          |                    |                           |                                               |                                                                             | ł                |                        |                  |                                |            |
|              |                                                    |                                       | ┡────┦        |          |                    |                           |                                               |                                                                             |                  |                        | 1                | 23,164,079                     | 23,164,0   |

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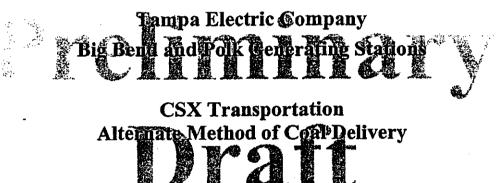
TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CXXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

## LUNFIDENTIAL

DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Second Draft Marked copy





September 4, 2003

Prepared By:

P. Guletsky, S. Madan, G. Bowater

**Reviewed By:** 

P. Guletsky

Approved By:

В. Н. Үее\_\_\_\_\_

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 4, 2003

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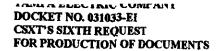
#### **EXHIBITS**

| Exhibit 2A-1 | Big Bend 210 5.5 Million Ton Build In                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exhibit 2A-2 | CSAT Cost Estimate for Big Bend 2-3: MM Ton Rail Coal Delivery Option<br>Big Bend 200 5.5 Million Ton Build In<br>Sec. Cost Estimate for Big Bend 2-5.5 MM ston Rail Coal Delivery Option |
| Exhibit 2A-3 | Big Bend 2 to 5.5 Million Ton Build In State Considerations                                                                                                                               |
| Exhibit 2B-1 | Big Bend 1 to 2 Million Ton Build In<br>CSXT Capital Con Estimate                                                                                                                         |
| Exhibit 2B-2 | Big Bend http 2 Mallion Kon Build In.                                                                                                                                                     |
| Exhibit 2B-3 | Big Bend 100.2 Million Fon Builden                                                                                                                                                        |
| Exhibit 2C-1 | Polk Build In Shuttle Train Unload<br>CSXT Capital Estimates                                                                                                                              |
| Exhibit 2C-2 | Polk Build In Shuttle Train Unload<br>S&L Capital Estimates                                                                                                                               |
| Exhibit 2C-3 | Polk Build In Shuttle Train Unload<br>Operating Cost Considerations                                                                                                                       |
| Exhibit 2D-1 | Polk Direct Delivery - Rotary Dump Scenarios<br>Independent Estimates                                                                                                                     |
| Exhibit 2D-2 | Polk Direct Delivery - Bottom Dump Scenarios<br>Independent Estimates                                                                                                                     |
| Exhibit 2D-3 | Polk Direct Delivery - Rotary Dump and Bottom Dump Scenarios<br>CSXT Proposal Estimate                                                                                                    |
| Exhibit 2D-4 | Polk Direct Delivery - Rotary Dump and Bottom Dump Scenarios<br>Operating Cost Considerations                                                                                             |

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undy **Big Bend and Polk Generating Stations** 

SL-008160 Project No. 09476-019 September 4, 2003

#### Ĭ. **Executive Summary**

Alternate Method of Coal Delivery

Tampa Electric Company

**CSX** Transportation

Sargent & Lundy L.L.C. has reviewed the proposal issued to Tampa Electric by CSX Transportation for alternate method of coal delivery to the Big Bend and Polk Generating Stations. The proposal, dated August 11, 2003, offers conceptual design and cost information to bring coal to the stations by rail direct rather than by the traditional barge transport.

The purpose of the S&L review is to validate the capital cost for each option proposed, to provide operating cost estimates for each, and to provide assessment of assumptions made which qualify the bid. The Tampa Electric Fuels Strategy Group will use the results of the S&L analysis to evaluate this option against the other coal transportation bids received.

has done an additionabl ob insher conceptual plan, in some cases the lthough £ S2 Т concept provided would not be feasible in its proposed form re possible, w e made the necessary adjustments withe desig ed costs for the adjusted plan. Specific examples include

- The limestone unloading facility at Big Bend will not be used for unloading coal by rail. Contamination of the limestone with coal would present several process obstacles with the GDS and gypsum byproduct.
- New track different inte fieres with existing facilities in some areas. The track odate existing operations. has been reconited cot
- The conveyor belt sizing for the 2-5.5 MM ton Big Bend Option is marginal. The estimate provided increases the belt width to 60 inches. A 60-inch conveyor is appropriate for the duty rating expected.

Each case is discussed more fully in the following section of the report.

The cost information provided with the proposal appears to be low in all cases. The costs provided appear to include material for new equipment only. Therefore, the installation cost and costs associated with modification to existing facilities need to be added. The capital cost estimate comparison for each scenario is as follows:

|                                        | CSXT Estimate | S&L Estimate |
|----------------------------------------|---------------|--------------|
| Big Bend 2 to 5.5 Million Ton Build In | \$ 10,846,000 | \$41,294,000 |
| Big Bend 1 to 2 Million Ton Build In   | \$6,798,000   | \$30,497,000 |
| Polk Build In Shuttle Train Unload     | \$ 2,318,000  | \$15,418,000 |
| Polk Direct Delivery - Rotary Dump     | \$ 6,502,000  | \$36,434,000 |
| Polk Direct Delivery - Bottom Dump     | \$ 4,520,000  | \$24,371,000 |

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#### IAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

SL-008160 Project No. 09476-019 September 4, 2003

The estimates provided in the rail delivery bids do not take into account the additional operating costs required at each station. Fixed operating cost increases will be required for most of the options included in the bid package because of the additional operating staff that will be required to manage the coal unloading and storage. Variable operating costs will also increase at each station as a result of the additional equipment. Increased electrical load and equipment maintenance costs make up the majority of the variable operating cost estimate.

|                                        | Yearly Estimated<br>Operating Cost |        |
|----------------------------------------|------------------------------------|--------|
| Big Bend 2 to 5.5 Million Ton Build In | \$2.2MM to \$2.7MM                 |        |
| Big Bend 1 to 2 Million Ton Build In   | \$1.4MM to \$1.5 MM                |        |
| Polk Build-In Shutle Train Unload      | SI.I MM                            | an the |
| Polk Direct Delvery Rotary Dump        |                                    |        |
| Polk Direct Delevery Boffon Lump       | L 2 307 6M2 2                      | 1      |
|                                        |                                    | 2      |

The proposal options offered by CSXT have identified the demurrage rate assumed in each case. In some instances, we believe that the parts provided are more aggressive than can be reasonably achieved. These discrepancies can either be used as a point of negotiation or associable cosition Tampanteeutid. We have not included demurrage fees in the operating cost estimates but ath a provide the data for your use and evaluation during your contrast negotiations

|                                        | Demurrage<br>Allowed in Bid | Estimated Unload<br>Time Required |            |
|----------------------------------------|-----------------------------|-----------------------------------|------------|
| Big Bend 2 to 5.5 Million Ton Build In | 4 hour                      | 6 hour                            |            |
| Big Bend 1 to 2 Million Ton Build In   | 24 hour                     | 9 hour                            | Sam        |
| Polk Build In Shuttle Train Unload     | (Sam) (3                    | (Sam) 3                           | 2          |
| Polk Direct Delivery Rotary Dump       | ( (Sam)                     | (Sam) T                           | ) or       |
| Polk Direct Delivery - Bottom Dump     | (Sam)                       | (Sam) 9                           | lor<br>gan |

Environmental considerations that need to be addressed in the full evaluation of these coal transportation options include wetlands reconstruction, coal pile runoff, and noise abatement. These issues are discussed later in this report.

#### II. <u>Bid Analysis</u>

A. Big Bend 2 to 5.5 Million Ton Build In

The conceptual design that is proposed for this option requires three alterations:

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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The use of the limestone unloading facility for coal unloading is not desirable. 1. Although introducing small amounts of limestone to the coal supply is not a particular problem, introducing small amounts of coal to the limestone supply is indeed a problem. Coal introduced through the FGD system will adversely effect its process design. First, the coal will contaminate the gypsum byproduct that is currently being sold for wallboard manufacture. Second, the coal will contaminate the water reclaimed from the FGD system and will therefore concentrate in the process loop. This will increase the suspended solids in the reclaim water, which is used for mist eliminator washing. Higher suspended solids can result in plugging of the wash nozzles, headers and piping, and in erosion of the mist eliminator vanes. For these reasons, it is not common practice to share unloading of coal with limestone supplies for FGD. The estimate provided heigh included provisions to fistall a new separate coal unloading station due west of the existing limestone unloading station and directly south of the Existing EGDS

2. The 45 car rail spuridentified in the proposal for use at the new railcar load but which transfers coal to be sent to the Polk Station is located within the boundaries of the existing desalinization plant which is owned and operated by Others. It is suggested that this rail spur be moved to the south side of the rail loading facinty. This change has been incompared into the estimate. It represents animor tost impact.

3. CSXT proposal included at "wide bett conservors for unloading. The 54" wide conveyors would have to operate that circlyingh bett speed (~ 700 fpm) for handling the required capacity. At this high belt speed, we would expect a high potential of coal spillage and dusting problems; therefore, we would recommend 60" wide conveyor bolts for the new train unloading belts. The 60" wide conveyors would require a slower (580 gpm) belt speed for handling the required tonnage.

The capital cost estimate that is provided with this option appears to be quite low. As illustrated in the executive summary, we would expect the installed cost for this scope of work to be more than double the proposed amount. Although the basis of the estimate is not identified specifically, it would appear that the estimate provided by CSXT in the proposal represents the capital cost for the engineered equipment for coal transport only. Exhibits 2A-1 and 2A-2 are the respective CSXT and S&L cost estimates for Big Bend 2-5.5 MM Ton Rail Coal delivery option.

S&L has assumed that hooded conveyors will be acceptable and permitable for the new conveyors except the transfer conveyor that travels over the intake canal. The transfer conveyor is totally enclosed from the blending bin to the proposed transfer tower. Should environmental permitting require all of the conveyor to be totally enclosed, then the increase to the capital estimate will be approximately \$2,000,000.

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

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- Fire Loop Extension
- Dust Suppression System
- Repair to Existing On-Site Track
- Modifications to Transfer House T2
- Demo/Reconstruct Storm Storage Area
- Re-Grading for Storm Water and Runoff
- Underground Utility Identification and Relocation
- Installation of Rail Bridge Over Water Lines on East Side of Property
- Conveyor Lighting
- Blending Bin Modifications
- Adjustment for FLFuilding orde
   Transformers for Electrical Supply
- Double End Bus Substation
- PLC

- Electrical Interconnect
- I/C Interconnect
- Services Interconnect (Instrument sin Service Air
- Environmental Permitting Evaluation
- Contractor G&A and Fee
- Tampa Electric Overheads

The overhead costs include engineering oversight by the Owner's AE, construction oversight, and Tampa Electric internal project costs.

Operating cost considerations to be included in the overall bid evaluation are tabulated in Exhibit 2A-3. The combined fixed and variable operating costs for this option range from \$2,167,200 to \$2,697,500 per year depending on the quantity of coal handled.

B. Big Bend 1 to 2 Million Ton Build In

The conceptual design proposed by CSXT requires a new coal unloading station for coal as described above. We have made the same adjustment to this option as described in the 2 to 5.5 MM Ton Rail Delivery Option described above.

This option introduces some operating constraints that do not otherwise exist. This option provides a radial stacker to stack the coal and does not tie into the existing conveyor systems. This arrangement limits coal storage to one of the three existing

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coal storage bays. Coal pile management will therefore be more complicated and require more labor to maintain.

The capital cost estimate provided with the CSXT proposal is provided in Exhibit 2B-1. Again, the capital costs provided are low compared to the independent total installed cost estimate prepared as part of this evaluation. Exhibit 2B-2 provides the details of the independent estimate prepared by S&L.

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

Fire Loop Extension

Rē

- Dust Suppression System
   Repair to Existing On-Sit
- Re-Grading the Storm Water and Runoff
- Underground Utility Identification and Relocation
- Installation of Rail Bridge Over Water Lines on East Side of Property
- Conveyor Lighting,
  - Adjustments for High Water Ta
- Adjustment of FL Building Code
- Transformers for Electrical Supplys
- Double End Bus Substation
- PLC
- Electrical Interconnect
- I/C Interconnect
- Services Interconnect (Instrument Air, Service Air, Water)
- Environmental Permitting Evaluation
- Contractor G&A and Fee
- Tampa Electric Overheads

No modifications to the T2 transfer tower and blending bin are required for this option and we have assumed hooded conveyors are acceptable. The estimated increased cost for totally enclosed conveyors should they be required is \$1,250,000

Operating cost considerations to be included in the overall bid evaluation are tabulated in Exhibit 2B-3. The combined fixed and variable operating costs for this option range from \$1,411,000 to \$1,492,000 per year.

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#### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

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#### C. Polk Build In Shuttle Train Unload

This design option provided in the CSXT proposal for the Polk Plant is the least expensive and the least intrusive to the current plant operations.

The independent, estimated total installed cost for this option is \$15,418,000 which is over six times higher than the capital cost identified in the CSXT proposal. Exhibit 2C-1 and Exhibit 2C-2 provide the details of the CSXT and S&L capital estimates respectively.

In addition to the new equipment and installation costs, S&L has included, in the independent estimate, costs for the following support tasks required to complete the scope of work.



- Dust Suppression
- Repair to Existing On-Site Track
- Modifications for Existing Coal Silo
- Grading for Normwiner/Goal Runoffer
- Underground Utility dentification and clo
- Wetlands Relocation
- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustments for the High Water Table
- Transformers
- Double End Bus Substation
- I/O Blocks
- •. Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Contractor G&A and Fee
- Tampa Electric Overheads

Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2C-3. The combined fixed and variable operating costs for this option are \$1,130,000 per year.

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D. Polk Direct Delivery – Rotary Dump and Bottom Dump Scenarios

The conceptual design of this option proposed by CSXT introduces coal storage to the Polk station. The domed storage facility minimizes the environmental impact to the station. The loop track provides sufficient storage to prevent obstruction of other plant operations.

The proposal provided by CSXT includes two scenarios for this option. The first uses a rotary car dumper; the second is similar but uses a bottom dump rail car. We have included a car shaker with the bottom dump rail car estimate. The independent estimates prepared for this option are included as Exhibit 2D-1 and Exhibit 2D-2. The CSXT proposal estimate, again lower than the estimated installed costs prepared by S&L, is provided as Exhibit 2D-3.

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Tampa Electric Company

CSX Transportation

Big Bend and Polk Generating Stations

Alternate Method of Coal Delivery

• Fire Loop Extension

Inderground I

is included in the in

- Dust Suppression
- Repair to Existing On Sites
- Modifications to Existing toal Silo
- Grading, Stormwater/Coal Runoff Modification
- Underground Utility Identification and Relocation
- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustment for High Water Table
- Transformers
- Double End Bus Substation
- I/O Blocks
- Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Wetland Relocation
- Contractor G&A and Fee
- Tampa Electric Overheads

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Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2D-4. The combined fixed and variable operating costs for this option are \$1,349,000 per year for the rotary dumper and \$972,000 per year for the bottom dump rail car scenario.

#### III. Assumptions

IV.

- No additional real estate purchase is required for track or relocation of facilities and wetlands.
- No track upgrade or repair is required outside of the plant real estate boundaries.
- Tampa Electric has no provisions for holding second train for CSX.
- Coal unloading is to be performed during day shifts only.

for

i forithe stati No allowanc mimate for schedule iri constraints (hepor overtimes, though shifts, accelerated shipment of equipment or commodities, etc.).

Savanable

- Project contingency of 20% is required to mitigate the risk on costs due to the short evaluation period.
- ge unligading famility will ren Mational at the Big Bend The current Station.
- operational at the Big Bend Station. The current
- The current truck unloading facility will remain operational at the Polk Station.

#### **Issues for Further Consideration**

Coal unloading by rail at the Big Bend Station will necessitate blocking Gate 32 for several periods of time during the day. For the 2-5.5 MM ton scenario, we estimate that approximately two trains a day will be received during the week. We would expect that for each train Gate 32 will be blocked about 15 minutes while the train is entering the site, 45 minutes during the unloading of each of the two 45 car segments, and another 15 minutes during the train re-assembly and exit from the plant. This equates to Gate 32 being blocked from access approximately 17% of the day.

SAM, please provide similar input regarding access constraints for each option.

Low frequency noise will be emitted from the locomotives operating on the site. This type of noise is not easily mitigated nor can it be dampened with the construction of berms. If this proposal is considered further, S&L recommends that a noise study be performed for each station.

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS



Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

System Rated at 2500 TPH

SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2A-1

**BIG BEND CAPITAL COST 2 - 5.5 MM TONS** 

#### CSXT COST ESTIMATE

#### Big Bend 2 - 5.5 mm TPY Option (Rapid Discharge Cars)

| Rapid Discharge System                    | \$1,600,000   |            |
|-------------------------------------------|---------------|------------|
| Long Conveyor 3300 ft                     | \$3,100,000   |            |
| Short Converter 500 t. A                  | 230,000       | ۲ <b>-</b> |
| Three 45 Car Tracks                       | \$1,200,000 🐟 |            |
| Truck Dump and Conveyor                   | \$350,000     |            |
| Total<br>Equipment to Load Shuttle Tfains | \$7,130,000   |            |
| Conveyors and Transfer Station            | \$2,250,000   |            |
| 250 Ton Batch Silo                        | \$1,066,000   |            |
| New 45 Car Track                          | \$400,000     |            |
| Total                                     | \$3,716,000   |            |
| Grand Total                               | \$10,846,000  |            |

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#### EXHIBIT 2A-2

S&L COST ESTIMATE FOR BIG BEND 2 - 5.5 MM TON RAIL COAL DELIVERY OPTION

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|           | •                                                                                                                                                              |                                |               |       |        |            |                   |            |                       |                                       |          |           | mate No.:  | 000X · J                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|-------|--------|------------|-------------------|------------|-----------------------|---------------------------------------|----------|-----------|------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                                                                                                                                                |                                |               |       |        |            |                   | the second | the last              |                                       |          | Ent       | oject No.: | 09478-019                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                |                                |               |       | T      |            | Ta                | mpa Elec   |                       |                                       |          |           | Dete:      | 9/5/03                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                |                                |               |       | +      |            |                   | Big Bend   | <u></u>               |                                       |          |           |            | DRAFT                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                |                                |               |       | +      |            |                   | ail Deliv  | and the second second |                                       |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IBIT: 2/  | A-2                                                                                                                                                            |                                |               |       | +-     | -+         | Ord               | r of Mag   | Intuce                | ENTIAL-                               |          |           | Run Date:  | 9/5/03                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ent & Lur | ndy                                                                                                                                                            | Cost Type:                     |               |       | +-     |            | -PRELIMINA        | Y AND U    | UNIT                  |                                       |          |           | Preparet:  | GBB/SM                                                                                                          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| hicago    |                                                                                                                                                                | Est-Estimated                  |               |       | +      | -+         |                   |            |                       |                                       |          |           | Reviewer   |                                                                                                                 | i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| _         |                                                                                                                                                                |                                |               |       | +-     |            |                   |            | _                     |                                       |          |           | Revenue    | 1                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                | B=Bid<br>OPB=Other Preject Bid |               |       | -+     |            |                   |            | -+-                   |                                       |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                | Q=Vendor, Quelo                |               |       |        | -+         |                   |            |                       |                                       |          |           |            | 1 1                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                | Gevenant dame                  |               |       |        |            |                   |            |                       | Total.                                | Sub      | DOR       | DOR        | Total                                                                                                           | Sub-Totals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|           |                                                                                                                                                                |                                |               |       |        |            |                   | Total      | Lle                   | onstruction                           | Contract | (Furniah) | (install)  | Projected Cost                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                |                                |               |       |        | it of      | Unit Equip J Mat. | Equipme    | nt or                 | & Erection                            | 1        | 11 101111 |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| -         |                                                                                                                                                                | Scope Definition               | Cost.<br>Type | Quant | Ity Me | asure      | Cost              | Material   | COL                   | Cost                                  |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Description                                                                                                                                                    | Scobe Detration                | 1904          |       | - F    |            |                   |            |                       |                                       |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CCL.      | Department of                                                                                                                                                  | 1                              |               |       | _      |            |                   |            |                       |                                       |          | T         |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10        |                                                                                                                                                                |                                |               |       | _      |            |                   |            | _                     |                                       |          |           |            |                                                                                                                 | 15,360,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|           |                                                                                                                                                                | 1                              |               |       |        |            |                   |            |                       |                                       |          | 1         |            |                                                                                                                 | 15,300,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| -         | - 5.5 MM TPY OPTION WITH RAPID DI                                                                                                                              | SCHARGE CARS                   | _             |       |        |            |                   |            |                       |                                       |          |           |            | 1,000,000                                                                                                       | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2         | - 5.5 MM TPY OP HON WHITE                                                                                                                                      |                                |               |       | _      |            |                   |            |                       | 1,000,00                              | ô        |           |            | 1,120,000                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| -+-       | quipment To Unload Trains @ 2500                                                                                                                               |                                |               | 1     |        |            | 0.                |            | 00,000                | 320.00                                | 0        |           |            | 210,00                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | quipment To Unioad Training                                                                                                                                    |                                | Est           |       |        | ŝ          | \$30,000          | 1          | 50,000                | 60,00<br>80,00                        | g        |           |            | 140.00                                                                                                          | ð                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|           | TPH<br>Excervation for track hopper pit foundation                                                                                                             |                                | Est           |       |        | S          | 200,000           | 00 2       | 00,000                | 40.00                                 | Ň.       |           |            | 280.00                                                                                                          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|           |                                                                                                                                                                |                                | EN            |       |        | <u>ş</u>   | 100,000           | .00        | 00,000                | 80.00                                 | 0        |           |            | 280,00                                                                                                          | <u>g</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|           |                                                                                                                                                                |                                | É             |       |        | 45         | 200,000           | .00        | 200,000               | 80.0                                  | 0        |           |            | 900.00                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Hopper and grizzly                                                                                                                                             | -                              | Est           | _     |        | is         | 200,00            |            | 600,000               | 400.0                                 | <u></u>  |           |            | 70.0                                                                                                            | x0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1         | Track hopper dust supply                                                                                                                                       | 2 Each                         | Est           |       | 5      | LS         | 100,00            |            | 100 000               | 20,0                                  |          |           |            | 4,320,0                                                                                                         | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|           | Bell feeders                                                                                                                                                   |                                | Est Est       |       | 1      | 1 <u>9</u> | 50,00             | 0.00       | 50,000                |                                       |          |           |            |                                                                                                                 | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se |
|           | Bell combol, ou most and                                                                                                                                       |                                | E             |       | 1      |            | 400,00            | 0.00       | 480,000               | 3,840,0                               |          |           |            | 540,0                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                |                                | E             | a     | 1      | 18         | 300,0             |            | 300,000               | 240.0                                 | 200      |           |            | the second second second second second second second second second second second second second second second se |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| _         | Transfer house<br>Foundation for transfer house<br>Belt conveyor, 60° wide, 3200 ft long, hooded                                                               |                                | E             |       | 1      | LS         | 50,0              | 0.00       | 50,000                |                                       |          |           |            | 1,350,0                                                                                                         | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           | Belt conveyor, oo meet the                                                                                                                                     |                                |               |       | 1      | LS_        | 750.0             |            | 750,00                | 600.                                  | 000      |           |            | 180,                                                                                                            | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| L         | conveyor<br>Transfer house                                                                                                                                     |                                |               | st    | 1      | LS         | 750.0             |            |                       | 80                                    | 000      |           |            | 180,                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Foundation for transfer house, 60" with                                                                                                                        | 50.                            | C             |       |        | 1.         | 100,0             | 00.00      | 100,00                | ·                                     | 000      |           |            | 180,                                                                                                            | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           | The conversion to the second                                                                                                                                   |                                | 6             | st    | 1      | LS         |                   | 00.00      | 100,00                | · · · · · · · · · · · · · · · · · · · | .000     |           |            | 320                                                                                                             | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           | 500 ft long<br>Existing transfer house modification house                                                                                                      |                                |               | #4    | 1      | LS         |                   | 000.000    | 200,00                |                                       | ,000     |           |            | 280                                                                                                             | ,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|           | modification                                                                                                                                                   |                                |               |       | 1      | LS         | 180.              | 000.00     | 160,00                | 80                                    | .000     |           | -+-        |                                                                                                                 | .000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| F         |                                                                                                                                                                |                                |               | 84    | 1      | is         | 200               | 000.000    | 50.0                  | 20                                    | ,000     |           |            | 1,500                                                                                                           | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           | Chief MIDD/66500 IOI Daily                                                                                                                                     |                                |               | Est . | 1      | LS         |                   | 000.00     | 50,0                  | 00 2                                  | 0,000    |           |            | 1543                                                                                                            | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           |                                                                                                                                                                |                                |               | Ea    | 1      | LS         |                   | 000.00     | 750.0                 |                                       | 2,000    |           |            | 1.54                                                                                                            | 3,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|           |                                                                                                                                                                |                                |               | Est   | 1      | LS         |                   | 000.00     | 500,0<br>2,0          |                                       | 6,000    |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Hoists and trolleys                                                                                                                                            | Citos 7500 LF                  |               | Est   | 1      | 13         |                   | 000.00     |                       |                                       |          |           |            |                                                                                                                 | 6,546                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|           | Hoists and trolleys<br>Track work modification - add three 45 car tre<br>Track work modification                                                               |                                |               | Est . |        |            |                   |            |                       |                                       |          |           |            |                                                                                                                 | 0,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|           | Temporary Conter Don                                                                                                                                           |                                | -+            |       |        |            |                   |            |                       |                                       | 0,000    |           |            |                                                                                                                 | 4,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|           | Dewatering                                                                                                                                                     |                                | 1             | 1     |        |            |                   | 0,000.00   | 50,                   | 000                                   | 24,000   |           |            |                                                                                                                 | 0,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| h         | Equipment To load Shuttle Trains                                                                                                                               |                                |               | Est   | 1      |            |                   | 0,000.00   |                       | _                                     | 80,000   |           | 1          |                                                                                                                 | 70.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|           | Equipment to bad                                                                                                                                               |                                |               | Est   | 1      |            |                   | 0.000.00   | 1,700                 | ,000                                  |          |           |            |                                                                                                                 | 70,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|           | Modification at existing bin                                                                                                                                   |                                |               | Est   | 1      | LS         |                   | 6,000.00   | 50                    |                                       | 20,000   |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Belt feeder                                                                                                                                                    | Z. Mide'                       |               | Est   | 1      | - 12       | S                 | 50,000.00  | 50                    | 000                                   |          |           |            | 1.4                                                                                                             | 00,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|           | 1200 ft long, enclosed conveyor                                                                                                                                |                                | -+            | Est   | 1      | - U        | 8                 | 00,000.00  | 1,000                 | 0,000                                 | 00,000   |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| -         |                                                                                                                                                                |                                |               | Est   | 1      | L          | S 1,0             |            |                       |                                       |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Foundation for transfer house<br>Foundation for transfer house<br>Belt conveyor to load out station, 1000 tph,<br>Belt conveyor to load out station, 1000 tph, | 42" wide,                      |               | 234   |        |            |                   |            |                       |                                       |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|           |                                                                                                                                                                |                                |               |       |        |            | Page 1 of 4       |            |                       |                                       |          |           |            |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 56 OF 107 

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 57 OF 107

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| largent      | & Lundy LLC                                     |                                       |                | 1               |                    |                           | Tampa Elect                                   |                                             | 1                       |                                       | Estimate No.     | 10000                   | 1                                     |
|--------------|-------------------------------------------------|---------------------------------------|----------------|-----------------|--------------------|---------------------------|-----------------------------------------------|---------------------------------------------|-------------------------|---------------------------------------|------------------|-------------------------|---------------------------------------|
| Chic         | tgo                                             |                                       |                |                 |                    |                           | Big Bend                                      |                                             |                         |                                       | Project No.      | : 09476-019             | 1 :                                   |
|              |                                                 | Cost Type:                            | _              | · - · ·         |                    |                           | Rail Deliver                                  |                                             |                         |                                       | Cate             | 9/5/93                  | 1.                                    |
|              |                                                 | Est-Estimated                         | - <del> </del> | _               |                    | Ú. Or                     | der of Magni                                  | tude                                        | -                       | 1                                     |                  | DRAFT                   |                                       |
|              |                                                 |                                       | . <b>.</b>     |                 |                    | -PRELIMIN/                | ARY AND CO                                    | NFIDENTIAL                                  |                         | · · · · · · · · · · · · · · · · · · · |                  |                         |                                       |
|              |                                                 | a-mid                                 |                |                 |                    |                           | 1                                             |                                             |                         |                                       |                  |                         |                                       |
|              |                                                 | OPB-Other Project Bid                 |                |                 | +                  |                           |                                               |                                             |                         |                                       | Run Date         | W\$/03                  |                                       |
|              |                                                 | Q=Vender Quele                        |                |                 |                    |                           |                                               |                                             |                         |                                       | Properer         | OBB/SM                  | 1                                     |
|              |                                                 |                                       |                |                 |                    |                           |                                               |                                             |                         |                                       | Reviewer         |                         | <u> </u>                              |
|              |                                                 |                                       | 1              |                 | <del> </del>       |                           |                                               |                                             |                         |                                       |                  |                         | į.                                    |
| Asci.<br>No. | Description                                     | Scope Definition                      | Cost.<br>Type  | Quantity        | Unit of<br>Measure | Unit Equip./ Mat.<br>Cost | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract | DOR<br>(Eumish)                       | DOR<br>(Install) | Total<br>Projected Cost | Sub-To                                |
|              | opcout bin structure                            |                                       | Est            |                 | i e                |                           |                                               |                                             |                         |                                       |                  |                         | +                                     |
|              | gundation work for conveyors                    |                                       | Est            | <u>├</u>        | LS<br>LS           | 750,000.00                |                                               |                                             |                         |                                       |                  | 1,050,000               |                                       |
| 6            | Just suppression for bell conveyors             | 1                                     | Est            | 1— <u>;</u>     | LS<br>LS           | 100,000.00                | 100,000                                       | 80,000                                      |                         |                                       |                  | 180,000                 |                                       |
|              | ire protection for conveyors                    |                                       | Est            | 1               | LS                 | 200,000.00                |                                               | 80,000                                      |                         |                                       |                  | 280,000                 |                                       |
|              | IVAC for transfer house and loadout station     |                                       | Eat            | t ;             | LS                 | 200,000.00                | 200,000                                       | 80,000                                      |                         |                                       |                  | 280,000                 |                                       |
|              | sump pump system at loadout station             |                                       | Est            | 1               |                    | 50,000.00                 | 50,000                                        | 20,000                                      |                         |                                       |                  | 70,000                  |                                       |
|              | icisis and incileys                             |                                       | Est            | 1               | LS I               | 30,000,00                 | 50,000                                        | 20,000                                      |                         |                                       |                  | 70,000                  | 3                                     |
|              | rack work modification,, add one 45 car track   | 2500 LF                               | Est            | l i             | iš                 | 250,000,00                | 30,000                                        | 12,000                                      |                         |                                       |                  | 42,000                  |                                       |
|              |                                                 |                                       |                |                 |                    | 200,00,00                 | 290,000                                       | 250,000                                     |                         |                                       |                  | 500,000                 |                                       |
|              | lectrical - Aux. Power                          |                                       |                |                 |                    |                           |                                               |                                             |                         |                                       |                  |                         |                                       |
|              | aouum Circuit Breaker and Cubicles              |                                       | Est            | . 2             | EA                 | 25,000.00                 |                                               |                                             |                         |                                       |                  |                         | 2,287                                 |
|              | 80 V Transformer                                | Includes Switchgear                   | Est            | 2               | Ē.                 | 135,000.00                | 50,000                                        | 3,000                                       |                         |                                       |                  | 53,000                  |                                       |
| M            | ićć                                             | 480 V (80 Motore)                     | Est            | 8               | ĒĀ                 | 40,000.00                 | 270,000                                       | 28,000                                      |                         |                                       |                  | 298,000                 |                                       |
|              | raya                                            |                                       |                |                 |                    |                           | 200,000                                       | 53,000                                      |                         |                                       |                  | 253,000                 |                                       |
|              |                                                 | Trays (Transformar Food)              | Est            | 2,000           | LF 1               | 30.00                     | 60,000                                        | 58,000                                      |                         |                                       |                  |                         |                                       |
|              | onduite                                         | Condulia (\$00 LF typ per motor feed) | Est            | 33,000          | LE                 | 3.00                      |                                               | -                                           |                         |                                       |                  | 118,000                 | -                                     |
| T            | rensformer Feeder Cable                         | MV-90                                 | Eat            |                 |                    |                           | 99,000                                        | 285,000                                     |                         |                                       |                  | 384,000                 | 7                                     |
| M            | V Wining                                        | 3/C #2 - 500 LF per motor             | Est            | 2,000           | <u> </u>           | 8.00                      | 16,000                                        | 40,000                                      |                         |                                       |                  | 56,000                  |                                       |
|              |                                                 |                                       |                | 32,000          | ۲۴ T               | 5.00                      | 165,000                                       | 525,000                                     |                         |                                       |                  | 690,000                 | <u>.</u>                              |
|              | ectrical Building - Pre Fabricated - Complete   | Elevated supports and foundations     | Est            |                 | 13                 |                           |                                               |                                             |                         |                                       |                  |                         |                                       |
|              |                                                 |                                       |                |                 | L0                 | 200,000,00                | 200,000                                       | 60,000                                      |                         |                                       |                  | 260.000                 |                                       |
| ¢            | onvievor Lighting                               | 5450 LP                               | Êst            |                 | 1.8                |                           |                                               |                                             |                         |                                       |                  |                         |                                       |
|              |                                                 |                                       | <u> </u>       |                 |                    | 61,900.00                 | 82,000                                        | 93,000                                      |                         |                                       |                  | 175,000                 |                                       |
|              | ontrol & Instrumentation                        |                                       |                |                 |                    |                           |                                               |                                             |                         |                                       |                  |                         | :                                     |
| D            | CS Upprages                                     | 6 VO's per Motor                      | Est            | · · · · · · · · |                    |                           |                                               | . 1                                         |                         |                                       | I                |                         | 556                                   |
| D            | CS BOP Equipment                                |                                       | Est            |                 | LS                 | 250,000.00                | 250,000                                       | 250,000                                     |                         |                                       |                  | 500,000                 |                                       |
| L            | cally Mounted Instruments                       |                                       | Eat            |                 |                    | 25,000.00                 | 25,000                                        | 25,000                                      |                         |                                       |                  | 50,000                  |                                       |
|              |                                                 |                                       |                |                 | <u> </u>           | 1,500.00                  | 2,000                                         | 4,000                                       |                         |                                       |                  | 6,000                   |                                       |
|              | OP Items                                        |                                       |                |                 |                    |                           |                                               |                                             |                         |                                       | T                |                         |                                       |
| Fi           | Protection Upgrade - underground                | 1000 LF                               | Est            |                 |                    |                           |                                               |                                             | !                       |                                       |                  |                         | 773                                   |
|              | monteconstruction of Storage Area               | Elevated at +15' (98,000 CY)          | Est            |                 | <u>s</u>           | 95,000.00                 | 95,000                                        | 84,000                                      |                         |                                       |                  | 179,000                 |                                       |
| St           | ontwater/Cost Runoff Grading Lingrades          | 3000 [.F                              | Est            |                 | 3                  | 9.00                      | 0                                             | 30,000                                      |                         |                                       |                  | 30,000                  |                                       |
|              | derground Utility Identification and Relocation | Temps - Allowance                     |                |                 | s                  | 2,000.00                  | 2,000                                         | 6,000                                       |                         |                                       |                  | 8,000                   |                                       |
| Re           | Bridge Over Water Lines                         | 12 . 100 0                            | Est            |                 | <u>s</u>           | 25,000.00                 | 25,000                                        | 25,000                                      |                         |                                       |                  | 50,000                  |                                       |
| <u>Q</u>     | neral Services Interconnection (water & elc.)   | Altwance                              | Est            |                 | s                  | \$0,000.00                | 50,000                                        | 80,000                                      |                         |                                       |                  | 130,000                 |                                       |
|              |                                                 | 1                                     | CR(            |                 | , <b>»</b>         | 50,000.00                 | 50,000                                        | 50,000                                      |                         |                                       |                  | 100,000                 |                                       |
| Ad           | usiment for FL Building Code                    | ·····                                 |                |                 |                    |                           |                                               |                                             |                         |                                       |                  |                         |                                       |
| 8            | icel @ 7%                                       | Applied in Estimated Steel Cost       | Est            |                 | <del></del> _      |                           |                                               |                                             |                         |                                       | ŀ                |                         | · · · · · · · · · · · · · · · · · · · |
|              | onorale da 10%                                  | Applied to Estimated Concrete Cost    | EN             |                 | \$                 |                           |                                               | 148,960                                     |                         |                                       |                  | 148,980                 |                                       |
|              |                                                 |                                       |                | 1               | S 1                |                           | A                                             | 127,680                                     |                         |                                       |                  | 127,680                 |                                       |

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|              | NT: 2A-2                                     |                                            | <b>_</b>            |          |                           |                                         | Tampa Electr                           | ic                                          |                              | e                       | istimule No.      | - XOOX -                               |          |
|--------------|----------------------------------------------|--------------------------------------------|---------------------|----------|---------------------------|-----------------------------------------|----------------------------------------|---------------------------------------------|------------------------------|-------------------------|-------------------|----------------------------------------|----------|
| langeni      | L& Lundy LLE                                 |                                            |                     |          |                           |                                         | Big Bend                               |                                             |                              |                         |                   | 09475-015                              | 1        |
| Chic         | 1890                                         |                                            |                     |          |                           |                                         | Rail Delivery                          | 1                                           |                              | ·                       | ·                 | 9/5/93                                 | <u> </u> |
|              |                                              | Coast Type:                                |                     |          |                           | On                                      | der of Magnif                          | ude                                         |                              |                         | 1                 | DRAFT                                  | <u>}</u> |
|              |                                              | Est-Estimated                              |                     |          |                           | -PRELIMINA                              | RY AND CO                              | NFIDENTIAL-                                 |                              |                         |                   |                                        | ÷        |
|              |                                              | 2-61d                                      |                     |          | 1                         | 1                                       | 1                                      |                                             |                              |                         | Run Date:         | 645 M 2                                | ÷        |
|              |                                              | OPB-Other Project Bid                      |                     |          |                           | 1                                       |                                        |                                             | <u> </u>                     |                         |                   | GBB/SM                                 | ÷        |
|              |                                              | Q=Vender Quese                             |                     | 1        | 1                         |                                         |                                        |                                             | <u> </u>                     |                         |                   |                                        | <u> </u> |
|              |                                              |                                            | <b></b>             |          |                           | · · · · · · · · · · · · · · · · · · ·   | ·                                      |                                             |                              | · ·                     | fleviewer         |                                        | ·        |
| Aget.<br>Ng. | <u>Description</u>                           | Score Definition                           | <u>Cost</u><br>Type | Quantity | <u>Unit of</u><br>Measure | <u>Unit Equip / Mat.</u><br><u>Cost</u> | Total<br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract<br>2 | <u>DOR</u><br>(Furnish) | DOR.<br>(Install) | <u>Total</u><br>Projected Cost         | Sub-Tot  |
|              | Sub-Total                                    |                                            |                     |          |                           | •                                       | 12,173,000                             | 13,349,640                                  |                              |                         |                   | 25,522,640                             |          |
| ·            | Other Costa/Adjustments                      |                                            |                     |          |                           |                                         |                                        |                                             |                              |                         |                   | ······                                 | 2,002    |
|              | Contractor's General & Administrative Costs  | Based 5% of Equip, Material,<br>and Labor  |                     |          |                           |                                         |                                        | 667,000                                     |                              |                         |                   | 667,000                                |          |
|              | Contractor's Profit                          | Based 10% of Equip,<br>Material, and Labor |                     |          |                           |                                         |                                        | 1,335,000                                   |                              |                         |                   | 1,335,000                              |          |
|              | Total Equipment, Material and Labor<br>Costs |                                            |                     |          |                           |                                         | 12,173,000                             | 15,351,640                                  |                              | •••••                   |                   | 27,524,640                             | 27,524   |
|              |                                              |                                            |                     | · · ·    |                           |                                         |                                        |                                             |                              |                         |                   |                                        |          |
|              | Freight, Duties, Taxes, Etc.                 |                                            |                     |          |                           |                                         |                                        |                                             |                              |                         |                   |                                        |          |
|              | Freight-ExWorks To Sile                      | included in Material &<br>Equipment Costs  |                     |          |                           |                                         |                                        |                                             |                              |                         |                   | included in<br>Material &<br>Equipment |          |
| {            | Taxes - Sales/Use/VAT/Business/Etc.          | Not included                               |                     |          |                           |                                         |                                        |                                             |                              |                         |                   | Costs<br>Not Included                  | ,        |
|              | Total Direct Project Costs                   |                                            |                     |          |                           |                                         | 12,173,000                             | 15,351,640                                  |                              |                         |                   | 27,524,640                             | 27,524   |
|              | Indirect Costs                               | :                                          |                     |          |                           |                                         |                                        |                                             | ļ                            |                         |                   |                                        | 2,882    |
|              | nsurance<br>Rulidam Olat                     |                                            |                     |          |                           |                                         |                                        |                                             |                              |                         |                   |                                        |          |
|              | Builders Risk                                | · · · · · · · · · · · · · · · · · · ·      |                     |          |                           |                                         | 1                                      | 1                                           |                              |                         |                   | Not Included                           |          |
|              | Engineering/Procurement                      | Project Mgmnt, Eng and                     |                     |          |                           |                                         |                                        | ·                                           |                              |                         |                   | 1,928,725                              |          |
|              | Tampa Electric Management of EPC Contractor  | Construction Support                       |                     |          |                           |                                         |                                        |                                             |                              |                         |                   | 192,672                                |          |
|              | Permits and Fees                             | Tampa                                      |                     |          | ł                         |                                         |                                        |                                             |                              |                         |                   | 600,000                                |          |
|              | ······································       |                                            |                     |          |                           |                                         |                                        |                                             | i                            |                         |                   | 163,000                                |          |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 58 OF 107 

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FOR PRODUCTION OF DOCUMENTS

| XHIB         | II: 2A-2                                           | l                                  |                     |          |                           |                                        | ampa Electr                                   | ic                                                 |                  |                         | latimate No.:     |                                |                                       |
|--------------|----------------------------------------------------|------------------------------------|---------------------|----------|---------------------------|----------------------------------------|-----------------------------------------------|----------------------------------------------------|------------------|-------------------------|-------------------|--------------------------------|---------------------------------------|
| lergent      | & Lundy LLE                                        |                                    |                     | [        |                           |                                        | <b>Big Bend</b>                               |                                                    |                  |                         | Project Ho.       | 09478-019                      | Ŧ                                     |
| Chik         | ago                                                |                                    |                     | }        |                           |                                        | Rali Delivery                                 | 1                                                  |                  |                         | Date              | 9/5/03                         |                                       |
|              |                                                    | Cost Type:                         |                     |          | 1                         |                                        | ler of Magnit                                 |                                                    |                  |                         |                   | DRAFT                          |                                       |
|              |                                                    | Colorite de la coloridad           |                     |          |                           | -PRELIMINA                             | RY AND CO                                     | NFIDENTIAL-                                        |                  |                         |                   |                                | -                                     |
|              |                                                    | 0-81d                              |                     |          |                           |                                        |                                               |                                                    |                  |                         | Run Data:         | 9/5/63                         | *                                     |
|              |                                                    | OPB-Other Project Bld              |                     |          |                           |                                        |                                               |                                                    |                  |                         | Preparar          | G8B/SM                         |                                       |
|              |                                                    | QrVendir Queta                     |                     |          |                           |                                        |                                               |                                                    |                  |                         | Reviewer.         |                                |                                       |
|              |                                                    |                                    |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   |                                |                                       |
| Acct.<br>No. | <u>Description</u>                                 | Scope Definition                   | <u>Cost</u><br>Type | Quantity | <u>Unit of</u><br>Measure | Unit Eaulo./ Mat.<br><u>Cost</u>       | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br><u>A Erection</u><br>Cost | Sub-<br>Contract | <u>DOR</u><br>(Furnish) | DOR.<br>(Instali) | <u>Total</u><br>Prolected_Cost | Sub-Tota                              |
|              | Total Indirect Project Costs                       |                                    |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   | 2,882,397                      | <del></del>                           |
|              | Escalation                                         | Not included                       | <u> </u>            |          |                           |                                        |                                               |                                                    |                  |                         |                   | Not included                   | · · · · · · · · · · · · · · · · · · · |
|              | EPC Costs                                          |                                    |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   | 4,004,835                      | 4,004,                                |
|              | General & Administrative (G&A) @ 5% of Dirot Costs |                                    |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   | 1,378,232                      |                                       |
|              | Efficacy insurance @ .8% of Direct Costs           |                                    |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   | 220,197                        |                                       |
|              | Fee @ 8% of Direct Costs                           | Profit and Home Office<br>Overhead |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   | 2,201,971                      |                                       |
|              | Performance Bond @ .75% of Direct Costs            |                                    |                     |          |                           |                                        |                                               |                                                    |                  | -                       |                   | 208,435                        |                                       |
|              | Contingency                                        |                                    | 1.                  |          |                           | ······································ |                                               |                                                    |                  |                         |                   |                                | 6,882,                                |
|              | Contingency                                        | 20% of overall cost                | 1                   |          |                           |                                        |                                               |                                                    |                  |                         |                   | 6,882,374                      |                                       |
|              | Interest During Construction (AFUDC)               | Not included                       |                     |          |                           |                                        |                                               |                                                    |                  |                         |                   | Not Included                   |                                       |
|              | Total Project Cost                                 |                                    | 1                   |          |                           |                                        |                                               |                                                    |                  |                         |                   | 41,294,247                     | 41,294                                |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 59 OF 107

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

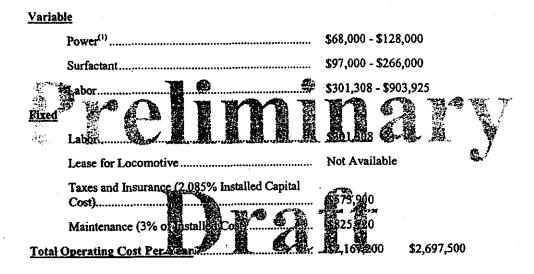
Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 .. September 4, 2003

#### EXHIBIT 2A-3

#### OPERATING COST ESTIMATE FOR 2 - 5.5 MILLION TON RAIL DELIVERY OF COAL BIG BEND STATION



<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 60 OF 107

#### IAMFA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

CONFIDENTIAL



#### EXHIBIT 2B-1

#### **BIG BEND CAPITAL COST 1-2 MM TON**

#### CSXT ESTIMATE

#### Big Bend I - 2 MM TPY Option (Standard Coal Hoppers)

#### System Rated at 1500 TPH Modify Limestone Pit \$250,000 .......... Long Conveyor \$1,953,000 Transfer Station 230 000 Short Conveyor 01000 Three 45 Car Tracks \$1,200,000 200' Radial Stacker. \$250,000 Truck Dump and Conveyor \$350,000 Total..... \$4,513,000 Equipment to Load Shuttle Trains Reclaim Hopper with Feed to Batch Silo ..... \$469,000

| •                  |              |
|--------------------|--------------|
| 250 Ton Batch Silo | \$1,066,000  |
| Loader/Dozer       | \$750,000    |
| Total              | \$2,285,000  |
| Grand Total        | \$10,846,000 |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 61 OF 107

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2B-2

#### BIG BEND 1 TO 2 MILLION TON BUILD IN

#### S&L INDEPENDENT ESTIMATE

# <sup>b</sup> reliminary Draft

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 62 OF 107

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|             | IT: 28-2                                                                                                   |                                        |               | 1        |                                               | 1 <b>1</b>                             | ampa Electr                                   | ic                                          |                  |                        | Estimate No.:           | XXXX                           |              |
|-------------|------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|----------|-----------------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|------------------|------------------------|-------------------------|--------------------------------|--------------|
| Sargent     | Lundy LC                                                                                                   | 1                                      |               | 1        | [                                             | 1                                      | Big Bend                                      | <u>i</u>                                    | <u> </u>         |                        | Project No.             |                                |              |
| Chic        |                                                                                                            | · · · · · · · · · · · · · · · · · · ·  |               | 1        | 1                                             |                                        | Rail Deliver                                  | 4                                           |                  | t                      |                         | 9563                           | l —          |
|             |                                                                                                            | Cost Type:                             |               |          | <u>                                      </u> | 0.                                     | der of Magni                                  |                                             |                  |                        |                         | DRAFT                          |              |
| • • •       |                                                                                                            | Est-Estimated                          |               |          | · · · · · · · · · · · · · · · · · · ·         |                                        |                                               | NFIDENTIAL-                                 | ·                |                        | +                       |                                | I            |
| ·           |                                                                                                            | 8-Nic                                  |               |          | <u> </u>                                      | -FRELIMINA                             | AND CO                                        | NFIDENTIAL-                                 | <b> </b>         | ļ                      |                         |                                |              |
|             |                                                                                                            |                                        |               |          |                                               |                                        | <u> </u>                                      |                                             | <b> </b>         |                        | Run Date:               |                                |              |
|             |                                                                                                            | OPB-Other Project Sid                  |               | I        |                                               |                                        |                                               |                                             |                  |                        | Preparar;               | CER/SM                         |              |
|             |                                                                                                            | Q=Vender Quete                         | - <u> -</u>   |          | <b> </b>                                      |                                        |                                               |                                             |                  |                        | Reviewer                |                                |              |
|             |                                                                                                            |                                        |               |          |                                               |                                        |                                               |                                             |                  |                        | <u> </u>                |                                | ļ            |
| Aget.<br>Ng | Description                                                                                                | Scope Definition                       | Cost.<br>Type | Quantity | <u>Unit of</u><br>Measure                     | <u>Unit EquipJ Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub:<br>Contract | <u>DOR</u><br>(Eumish) | <u>DOR</u><br>(Instati) | <u>Total</u><br>Projected Cost | <u>Sub-T</u> |
|             | 1 - 2 MM TPY OPTION WITH RAPID DISCH                                                                       | ARGE CARS                              |               |          | <u></u>                                       |                                        |                                               |                                             |                  |                        | <b>—</b>                |                                |              |
|             | Equipment To Unload Trains @ 1500                                                                          |                                        |               |          |                                               |                                        |                                               |                                             |                  |                        |                         |                                |              |
|             | TPH<br>Excervation for track hopper pit foundation                                                         |                                        | Est           |          | L\$                                           | 0.00                                   |                                               | 500,000                                     |                  |                        |                         | 500,000                        | 10,9         |
|             | Concrete work for track hopper                                                                             |                                        | Est           | 1        | LS                                            | 400.000.00                             | 400.000                                       | 160,000                                     |                  |                        | i                       | 560,000                        |              |
|             | Track hopper building                                                                                      |                                        | Est           | 1        | LS                                            | 120,000.00                             | 120,000                                       | 48,000                                      |                  |                        | <u> </u>                | 168,000                        |              |
|             | Car shakar / support steel                                                                                 |                                        | Est           | 1        | ໂຮ                                            | 60,000.00                              | 60,000                                        | 24,000                                      |                  |                        |                         | 84,000                         |              |
|             | Hopper and grizzly                                                                                         |                                        | Est           | 1        | LS                                            | 150,000.00                             | 150,000                                       | 60,000                                      |                  |                        |                         | 210,000                        |              |
|             | Track hopper dust suppression<br>Belt feeders                                                              |                                        | Est           | 1 2      | <u>LS</u>                                     | 100,000.00                             | 100,000                                       | 40,000                                      |                  |                        | <b></b>                 | 140,000                        | <u> </u>     |
|             | Concretework for conveyor / tunnel                                                                         |                                        | Est           |          |                                               | 150,000.00                             | 120,000                                       | 48,000                                      |                  |                        |                         | 210,000                        | <del></del>  |
|             | Belt conveyor, 48" wide, 250 ft long                                                                       |                                        | Est           | i        | LS                                            | 375.000.00                             | 375,000                                       | 150,000                                     |                  |                        |                         | 525,000                        | <del>.</del> |
|             | Transfer house                                                                                             |                                        | Est           | 1        | LS                                            | 80,000.00                              | 80,000                                        | 32,000                                      |                  |                        |                         | 112.000                        |              |
|             | Foudation for transfer house                                                                               |                                        | Est           | 1        | LS                                            | 40,000.00                              | 40,000                                        | 16,000                                      |                  |                        |                         | 56,000                         | · · · · ·    |
|             | Belt conveyor, 45" wide, 1,500 ft long, hooded                                                             |                                        | Est           | 1        | LS                                            | 1,800,000.00                           | 1.800.000                                     | 720,000                                     |                  |                        |                         | 2.520.000                      |              |
|             | convevor<br>Transfer house                                                                                 |                                        | Est           | 1        | LS                                            | 200,000,00                             | 200.000                                       | 160,000                                     |                  |                        |                         |                                |              |
|             | Fouriation for transfer house                                                                              | ·····                                  | Est           | 1        | LS.                                           | 50,000,00                              | 50,000                                        | 20,000                                      |                  |                        |                         | 360,000                        |              |
|             | Foudation for transfer house<br>Belt conveyor to radial stacker, 48° wide, 400 ft long,<br>hooded conveyor |                                        | Est           | 1        | LS                                            | \$00,000.00                            |                                               | 200,000                                     |                  |                        |                         | 700,000                        | ·,           |
|             | Transfer house at radial stacker                                                                           |                                        | Est           | 1        | LS.                                           | 100,000.00                             | 100,000                                       | 60,000                                      |                  |                        |                         | 180,000                        |              |
|             | Foudation for transfer house                                                                               |                                        | Est           | 1        | Ļ\$                                           | 40,000.00                              | 40,000                                        | 16,000                                      |                  |                        |                         | 56,000                         |              |
|             | Radial stacker, 48" wide, 200 ft long                                                                      |                                        | Est           |          | LS                                            | 250,000.00                             | 250,000                                       | 200,000                                     |                  |                        |                         | 450,000                        | ~            |
|             | Fondation work for conveyors Dust suppression for belt conveyors                                           |                                        | Est           | 1        | 18                                            | 100,000.00                             | 100,000                                       | 80,000                                      |                  |                        |                         | 180,000                        |              |
|             | Fire protection for conveyors                                                                              |                                        | Est           |          | 18<br>15                                      | 200,000.00                             | 200,000                                       | 80,000                                      |                  |                        |                         | 280,000                        |              |
|             | HVAC for track hopper pit and transfer houses                                                              | ······································ |               |          | LS                                            | 200,000,00                             | 200,000                                       | 80,000                                      |                  |                        |                         | 236,000                        |              |
|             | Sump pump system at track hopper                                                                           |                                        | Est           | 1        | LS I                                          | 50,000.00                              | 50,000                                        | 20,000                                      |                  |                        |                         | 70.000                         |              |
|             | Holats and trolleys                                                                                        |                                        | Est           | 1        | LS                                            | 50,000.00                              | 50,000                                        | 20,000                                      |                  | •                      |                         | 70.000                         |              |
|             | Track work midlication, add one 45 car track                                                               | 2500 LF                                | Est           | 1        | LS                                            | 250,000.00                             | 250,000                                       | 750,000                                     |                  |                        |                         | 1,000,000                      |              |
|             | Temporary Coffer Dam<br>Devatering                                                                         | · · · · · · · · · · · · · · · · · · ·  | Est           | 1        | S<br>S<br>S<br>S                              | 500,000.00<br>2,000.00                 | 500,000                                       | 1,042,000 236,000                           |                  |                        |                         | 1,542,000 238,000              |              |
|             | Equipment To load Shuttle Trains                                                                           |                                        |               |          |                                               |                                        |                                               |                                             |                  |                        |                         |                                | 4,30         |
|             | Excervation for reclaim hopper pit foundation                                                              |                                        | Est           | 1        | LS                                            | 0.00                                   |                                               | 300,000                                     |                  |                        |                         | 300,000                        | -,31         |
|             | Concrete work for RECLAIM hopper                                                                           |                                        | Est           | 1        | LS I                                          | 300,000,00                             | 300,000                                       | 120,000                                     |                  |                        |                         | 420,000                        |              |
|             | Hopper and prizzly                                                                                         |                                        | Eș            | 1        | LS                                            | 150,006.00                             | 150,000                                       | 60,000                                      |                  |                        |                         | 210,000                        |              |
|             | Belt feeder<br>Concretework for conveyor / tunnet                                                          | 2 Bach                                 | Est           | 4        | ្រទ                                           | 120,000.00                             | 120,000                                       | 48,000                                      |                  |                        |                         | 168,000                        |              |

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TAMPA ELECTRIC CUMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 63 OF 107

|              | IT: 28-2                                                  |                                       |                     | 1            | 1                         | Ĩ                                       | ampa Electr                                   | ric                                                                         |                                       |                        | Estimate No.            | 100000                         | •            |
|--------------|-----------------------------------------------------------|---------------------------------------|---------------------|--------------|---------------------------|-----------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------|------------------------|-------------------------|--------------------------------|--------------|
|              | & Londy LLC                                               | ·                                     |                     |              |                           | 1                                       | Big Bend                                      | T                                                                           | · · · · · · · · · · · · · · · · · · · |                        | Project No.:            |                                |              |
| Chic         |                                                           |                                       |                     | 1            | 1                         | 1                                       | Rall Deliven                                  | v                                                                           |                                       | 1                      |                         | 10/5/02                        |              |
|              |                                                           | Cast Type:                            |                     | 1            | +                         |                                         | ier of Magni                                  | £                                                                           |                                       | 1                      | <u>+<sup>-</sup>−</u>   | DRAFT                          |              |
|              |                                                           | Ret-Estimated                         |                     |              | 1                         |                                         |                                               | NFIDENTIAL-                                                                 |                                       | · · · · · ·            |                         |                                | -            |
|              |                                                           | 10-0W                                 |                     |              | <u>+</u> -                |                                         |                                               |                                                                             | ·                                     | <u> </u>               | Run Date:               |                                |              |
|              |                                                           | OP8=Other Project Bid                 |                     | <del> </del> | +                         | <u> </u>                                |                                               |                                                                             |                                       |                        |                         | 1                              | ie           |
|              |                                                           | Q=Vender Quote                        |                     |              | <u> </u>                  |                                         |                                               |                                                                             | <u></u> _                             |                        | +                       | G58/SM                         |              |
| <u> </u>     | ······································                    | Contraction Contraction               |                     | ·            | <u> </u>                  |                                         |                                               |                                                                             |                                       |                        | Reviewer                | l                              |              |
|              |                                                           |                                       |                     |              |                           |                                         |                                               |                                                                             |                                       |                        |                         |                                |              |
| Acct.<br>No. | Descripsion                                               | Scope Definition                      | <u>Cost</u><br>Type | Quantity     | <u>Unit of</u><br>Measure | <u>Unit Equip./ Mat.</u><br><u>Cost</u> | <u>Totel</u><br>Equipment or<br>Material Cost | <u>Totat</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | <u>Sub-</u><br>Contract<br>B          | <u>QOR</u><br>(Eumish) | <u>DOR</u><br>(Instail) | <u>Total</u><br>Prolected Cost | <u>Sub-</u>  |
|              | Bell conveyor, 48" wide, 500 ft long                      |                                       | Est                 | 1            | LS                        | 500,000.00                              | 500,000                                       | 200,000                                                                     |                                       |                        |                         | 700.000                        |              |
|              | Londout bin einuclure                                     |                                       | Est                 | 1            | LS                        | 769,000.00                              | 750.000                                       | 300,000                                                                     |                                       |                        |                         | 1.050.000                      |              |
|              | Fondation work for conveyors                              |                                       | Est                 | 1            | <u>[\$</u>                | 30,000.00                               | 30,000                                        |                                                                             |                                       |                        |                         | 54,000                         | 1            |
|              | Dust suppression for beit conveyors                       |                                       | E\$1                |              | LS                        | 200,500.00                              | 200,000                                       |                                                                             |                                       |                        |                         | 280,000                        |              |
|              | Fire protection for conveyors                             |                                       | <u>Est</u>          | 1            | LS<br>LS                  | 25,000.00                               | 25,000                                        |                                                                             |                                       |                        | i                       | 50,000                         |              |
|              | Sump pump system at reclaim hopper and loadout<br>station |                                       | Est                 | 1            | 1.8                       | 50,000,00                               | 50,000                                        |                                                                             |                                       |                        |                         | 70,000                         |              |
|              | Holets and trolleys                                       |                                       | Eat                 |              | LS                        | 30,000,00                               | 30,000                                        |                                                                             |                                       |                        | l                       |                                | r            |
|              | Londer / dozer                                            |                                       | Est                 | 1            | LS.                       | 750,000.00                              | 750,000                                       | 12,000                                                                      |                                       |                        |                         | 42,000                         |              |
|              | <u> </u>                                                  |                                       |                     |              |                           |                                         |                                               |                                                                             |                                       |                        |                         |                                | · ·          |
|              | Electrical - Aux. Power                                   |                                       |                     | 1            |                           |                                         |                                               |                                                                             |                                       |                        |                         |                                | : 2,         |
|              | Vacuum Circuit Breaker and Cubicles                       |                                       | Eşt                 | 2            | EA                        | 25,000.00                               | 50,000                                        | 3,000                                                                       |                                       |                        |                         | 53.000                         |              |
|              | 480 V Transformer                                         | Includes Switchgeer                   | Est                 | 2            | <u>Ea</u>                 | 135,000.00                              | 270,000                                       | 26.000                                                                      |                                       |                        |                         | 298,000                        |              |
|              | MCC                                                       | 480 V (71 Motors)                     | Est                 | 6            | EA                        | 40,000.00                               | 240,000                                       | 63,000                                                                      |                                       |                        |                         | 303,000                        |              |
|              | Trave                                                     | Trays (Transformer Feed)              | Eat                 | 2.000        | LF                        | 30.00                                   | 60.000                                        | 68,000                                                                      |                                       |                        |                         |                                |              |
|              | Conduits                                                  | Constults (500 LF typ per motor feet) |                     | 35.500       | 1.F                       |                                         |                                               |                                                                             |                                       |                        |                         | 118,000                        | - <u>í</u> , |
|              |                                                           |                                       | Est                 |              | ս                         | 3.00                                    | 107,000                                       | 306,000                                                                     |                                       |                        |                         | 413,000                        |              |
|              | Transformer Feeder Cable                                  | MV-00                                 | Est                 | 2,000        | <u>LE</u>                 | 8.00                                    | 16,000                                        | 40,000                                                                      |                                       |                        |                         | 56,000                         |              |
| j            | WA TING                                                   | SVC #2 - 500 LF per mator             | Est                 | 35,500       | LF                        | 5.00                                    | 178,000                                       | 564,000                                                                     |                                       |                        |                         | 742,000                        | <u> </u>     |
|              | Electrical Building - Pre Fabricated - Complete           | Elevated supports and foundations     | Est                 | 1            | us .                      | 200,000.00                              | 200,000                                       | 60,000                                                                      |                                       |                        |                         | 260,000                        | 3            |
|              | Conveyor Lighting                                         | 2050 LF                               | Est                 | 1            | <u>16</u>                 | 40,000,00                               | 40.000                                        | 46,000                                                                      |                                       |                        |                         | P. 000                         |              |
|              |                                                           |                                       |                     |              |                           |                                         | TV,990                                        |                                                                             |                                       |                        |                         | 86,000                         | 3            |
|              | Control & Instrumentation                                 |                                       |                     |              |                           |                                         |                                               |                                                                             |                                       |                        |                         |                                | . (          |
|              | DCS Upgrades                                              | 6 VO's per Motor                      | Est                 | 3            | 1.5                       | 300,000.00                              | 300,000                                       | 300,000                                                                     |                                       |                        |                         | 600,000                        | -            |
|              | DCS BOP Equipment                                         |                                       | Est                 |              | LS                        | 25,000.00                               | 25,000                                        | 25,000                                                                      |                                       |                        |                         | 50,000                         |              |
|              | Locally Mounted Instruments                               |                                       | Est                 | 1            | LS                        | 1,500.00                                | 2,000                                         | 4,000                                                                       |                                       |                        |                         | 6,000                          |              |
|              | BOP Items                                                 |                                       |                     |              |                           |                                         |                                               |                                                                             | ··                                    |                        |                         |                                | ÷,           |
|              | Fire Protection Upgrade                                   | 1000 [*                               | Est                 |              | .e                        | \$6.000.00                              | 05 000                                        |                                                                             |                                       |                        |                         |                                |              |
| li           | Demo/Reconstruction of Storage Area                       | Elevated at +15 (98,000 CV)           | Est                 |              | <u>18</u>                 | 96,000.00                               | 95,000                                        | 84,000                                                                      |                                       | ······                 |                         | 179,000                        |              |
|              | Stomwater/Cost Runoff Grading Upgrades                    | 3006 LF                               | Est                 |              | iš -                      | 2.000.00                                | 2.000                                         | 6,000                                                                       |                                       |                        | <b> </b>                | 30,000                         |              |
| N            | Underground Utility Identification and Relocation         | Tamps - Allowence                     | Esi                 |              | LS                        | 25,000.00                               | 25,000                                        | 25.000                                                                      |                                       |                        |                         | 50,000                         |              |
|              | Rall Bridge Over Water Lines                              | 2 - 20" Ines                          | Est                 | 1            | Ī.Š                       | 50,000.00                               | 50.000                                        | 80.000                                                                      |                                       |                        |                         | 130,000                        | ·            |
|              | General Services Interconnection (water & air, etc.)      | Allowence                             | Est                 | 1            | 1.8                       | 50,000.00                               | 50,000                                        | 50,000                                                                      |                                       |                        |                         | 100,000                        |              |
|              |                                                           |                                       |                     |              |                           |                                         |                                               |                                                                             |                                       |                        |                         |                                |              |

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|--------------|----------------------------------------------|------------------------------------------------|--------------|----------|--------------------|----------------------------------------|------------------------------------------------|---------------------------------------------|-------------------------|------------------------|-------------------------|-------------------------------------------------|-----------------|
| argent       | Lundy LC                                     |                                                |              | L        |                    |                                        | Big Bend                                       | L                                           |                         |                        | Project No.:            |                                                 |                 |
| Chic         |                                              |                                                |              |          |                    |                                        | Rail Delivery                                  |                                             |                         |                        | Dete:                   | 9/5/93                                          |                 |
|              |                                              | Cost Type:                                     |              |          |                    |                                        | der of Magnit                                  |                                             |                         |                        |                         | DRAFT                                           |                 |
|              |                                              | Est-Estimated                                  |              | [        |                    | -PRELIMINA                             | RY AND CO                                      | NFIDENTIAL-                                 |                         |                        |                         |                                                 |                 |
|              |                                              | 8-8id                                          |              |          |                    |                                        |                                                |                                             |                         |                        | Run Dete:               |                                                 |                 |
|              |                                              | CPB-Other Project Bid                          |              |          |                    |                                        |                                                |                                             |                         |                        | Proparar:               | gəb/su                                          |                 |
|              |                                              | Q=Vendor Quote                                 |              |          |                    |                                        |                                                |                                             |                         |                        | Seviewer:               |                                                 |                 |
| Acct.<br>No. | Description                                  | Score Definition                               | Cost<br>Type | Quantity | Unit of<br>Measure | <u>Unit EauloJ Mat.</u><br><u>Cost</u> | <u>Total.</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br>Contract | <u>DOR</u><br>(Eumish) | <u>DOR</u><br>flostafi) | <u>Total</u><br>Prolected Cost                  | <u>Sub-Tota</u> |
|              | Steel @ 7%                                   | Applies to Estimated Steel Cost                | Est          | 1        | <u>1.8</u><br>1.5  |                                        |                                                | 188,846                                     |                         |                        |                         | 188,848<br>161,868                              |                 |
|              | Concrete @ 10%                               | Applies to Estimated Concrete Cost             | Est          |          | LŞ.                |                                        | Ō                                              | 161,868                                     |                         |                        |                         | 161,868                                         |                 |
|              | Sub-Total                                    |                                                |              |          |                    |                                        | 10,770,000                                     | 8,169,846                                   |                         |                        |                         | 18,939,846                                      |                 |
|              | Other Costs/Adjustments                      |                                                |              |          |                    |                                        |                                                |                                             |                         |                        |                         |                                                 | 1,225,          |
|              | Contractor's General & Administrative Costs  | Based 5% of Equip, Material,<br>and Labor      |              |          |                    |                                        |                                                | 406,000                                     |                         |                        |                         | 408,000                                         |                 |
|              | Contractor's Profit                          | Based 10% of Equip,<br>Material, and Labor     |              |          |                    |                                        |                                                | 817,000                                     |                         |                        |                         | 817,000                                         |                 |
|              | Total Equipment, Material and Labor<br>Costs |                                                |              |          |                    | · · · · ·                              | 10,770,000                                     | 9,394,846                                   |                         |                        |                         | 20,164,846                                      | 20,164,         |
|              | Freight, Duties, Taxes, Etc.                 |                                                |              |          |                    |                                        |                                                |                                             |                         |                        |                         |                                                 |                 |
| i            | Freight-ExWorks To Site                      | Included in Material &<br>Equipment Costs      | ·····        |          |                    |                                        |                                                |                                             |                         |                        |                         | Included in<br>Material &<br>Equipment<br>Costa |                 |
|              | Taxee - Sales/Use/VAT/Business/Etc.          | Not included                                   |              | ļ        | <b></b>            |                                        |                                                |                                             |                         |                        |                         | Not Included                                    |                 |
|              | Total Direct Project Costs                   |                                                |              |          |                    |                                        | 10,770,000                                     | 9,394,846                                   |                         | •                      |                         | 20,164,846                                      | 20,164,         |
|              | Indirect Costs                               |                                                |              |          |                    |                                        |                                                |                                             |                         |                        |                         |                                                 | 2,315,          |
|              | Insurance<br>Builders Risk                   |                                                |              |          | <b> </b>           |                                        |                                                |                                             |                         |                        |                         | Not Included                                    |                 |
|              | Engineering Procurement                      |                                                |              |          |                    |                                        |                                                |                                             |                         |                        |                         | 1,411,539                                       |                 |
|              | Tempa Electric Interface with A/E            | Project Mgmnt, Eng and<br>Construction Support |              |          |                    |                                        |                                                |                                             |                         | ··· <u>·····</u>       |                         | 141,154                                         |                 |
| ··· , ,      | Tempa Electric Management of EPC Contractor  | Four men for 2 yrs @ \$75K.                    |              |          |                    |                                        |                                                |                                             |                         |                        |                         | 600,000                                         |                 |
|              | Leaving carolic wanter of Sh.C. Counselor.   | 1-00 mm tor 2 yrs (2 \$/0K.                    |              |          |                    |                                        |                                                |                                             |                         |                        |                         | 000,000                                         |                 |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 65 OF 107

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FOR PRODUCTION OF DOCUMENTS

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| EXHIB        | <u>T: 28-2</u>                                     | <u> </u>               |               | L        |                    | 11                              | Fampa Electr                                  | ic                                                     | L .                     |                        | etimete No.:      | XXXX                           |            |
|--------------|----------------------------------------------------|------------------------|---------------|----------|--------------------|---------------------------------|-----------------------------------------------|--------------------------------------------------------|-------------------------|------------------------|-------------------|--------------------------------|------------|
| iargent      | & Lundy LLC                                        |                        |               | <u> </u> |                    |                                 | Big Bend                                      |                                                        |                         | _                      | Project No.:      | 69475-019                      |            |
| Chic         | 200                                                |                        |               |          |                    |                                 | Rail Delivery                                 |                                                        |                         |                        | Onte:             | 9/5/83                         | -          |
|              | ·                                                  | Coal Type:             |               |          |                    |                                 | der of Magnit                                 |                                                        |                         |                        | [                 | DRAFT                          |            |
|              |                                                    | Est-Estimated          |               |          |                    | -PRELIMINA                      | RY AND CO                                     | NFIDENTIAL-                                            |                         |                        |                   |                                | -          |
|              | ·····                                              | B-Bid                  |               | L        |                    |                                 |                                               |                                                        |                         |                        | Run Dete:         | 8/103                          | - 4 C      |
|              |                                                    | OPB=Other Project Bid  |               |          |                    |                                 |                                               |                                                        |                         |                        | Preparer:         | GBB/SM                         |            |
|              |                                                    | Q=Vendor Quote         |               |          |                    |                                 |                                               |                                                        |                         |                        | Reviewer.         |                                | ~          |
|              |                                                    |                        |               |          |                    |                                 |                                               |                                                        |                         |                        |                   |                                |            |
| Acct.<br>No. | <b>Description</b>                                 | Scope Definition       | Cost.<br>Type | Quantity | Unit of<br>Measure | <u>Unit Equip / Mat</u><br>Cost | <u>Totat</u><br>Equipment or<br>Meterial Cost | Total<br>Construction<br><u>&amp; Erection</u><br>Cost | <u>Sub-</u><br>Contract | <u>DOR</u><br>(Evmish) | DOR.<br>(instali) | <u>Total</u><br>Projected Cost | Sub-Totala |
|              | Permits and Fees                                   | Тапре                  |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | 163,000                        | -          |
|              | Total Indirect Project Costs                       |                        |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | 2,315,693                      |            |
|              | Escalation                                         | Nat Included           | 1             |          |                    | ,                               |                                               |                                                        |                         |                        |                   | Not Included                   |            |
|              | EPC Costs                                          |                        |               |          |                    | <u> </u>                        |                                               |                                                        |                         |                        |                   | 2,933,985                      | 2,933,9    |
|              | General & Administrative (G&A) @ 5% of Dirot Costs |                        |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | 1,008,242                      |            |
|              |                                                    | Profit and Home Office |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | 161,319                        |            |
|              | Performance Bond @ .75% of Direct Costs            | Overhead               |               |          | <b> -</b>          |                                 |                                               |                                                        |                         |                        |                   | 1,613,188<br>151,236           | <u></u>    |
|              |                                                    |                        | <u> </u>      |          |                    |                                 |                                               |                                                        |                         |                        |                   | 131,230                        | ·          |
|              | Contingency                                        |                        |               |          |                    | *                               |                                               |                                                        |                         |                        |                   |                                | 5,082,9    |
|              | Contingency                                        | 20% of overall cost    |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | 5,082,905                      |            |
|              | Interest During Construction (AFUDC)               | Not Included           |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | Not Induded                    |            |
|              | Total Project Cost                                 |                        |               |          |                    |                                 |                                               |                                                        |                         |                        |                   | 30,497,429                     | 30,497,4   |

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TAMPA ELECTRIC COMPANY DOCKET NO. 03103-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

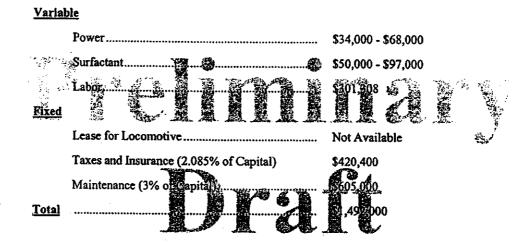


SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2B-3

#### **BIG BEND 1 TO 2 MILLION TON BUILD IN**

#### **OPERATING COST CONSIDERATIONS**



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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 67 OF 107

IAMITA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

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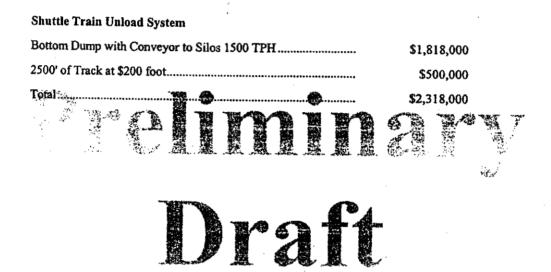


SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2C-1

#### TECO BID POLK CAPITAL COSTS

#### CSXT ESTIMATE



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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 68 OF 107

#### IAMFA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations .CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2C-2

#### POLK BUILD IN SHUTTLE TRAIN UNLOAD

#### S&L CAPITAL ESTIMATES

# Preliminary Draft

#### Page 1

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 69 OF 107

|                 | TT: 2C-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ┼─────────────────────────────────────                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ┠                   | ╀────          | _──                |                                  | ampa Electr                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L                     |                         | Estimate No.      |                           |                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|--------------------|----------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-------------------|---------------------------|----------------------------------------|
|                 | & Lundy LLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b> </b>            | +              | +                  |                                  | Polk Station                                         | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se | L                     | L                       | _                 | 00476-019                 |                                        |
| Chic            | ago                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                |                    |                                  | Rall Deliver                                         | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Γ                     |                         | Date              | 9/5/03                    |                                        |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cost Type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                |                    | On                               | der of Magnit                                        | ude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | 1                       |                   | DRAFT                     | •                                      |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CotvEntinueted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                | T                  | -PRELIMINA                       | RY AND CO                                            | NFIDENTIAL-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                         | <u> </u>          |                           |                                        |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8-814                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | 1              | 1                  |                                  | 1                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         | Run Date          | 14/5/82                   | · ···································· |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OPB-Other Preject Bid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | +              | ┥╍┉┈┈              |                                  | <u> </u>                                             | <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | ···                     |                   | 968/8M                    |                                        |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Q=Vendor Quete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |                |                    |                                  | <u> </u>                                             | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ļ.—                   |                         |                   |                           |                                        |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | <u> </u>       | <u>+</u> −−−       |                                  | <b> </b>                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         | Reviewer          |                           |                                        |
| Acct.<br>No.    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Scoos Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <u>Cost</u><br>Type | Quantity       | Unit of<br>Measure | <u>Unit Eculo / Mat.</u><br>Cost | <u>Totai</u><br>Equipment or<br><u>Material Cost</u> | Total.<br>Construction<br><u>&amp; Erection</u><br><u>Cost</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sub-<br>Contract<br>2 | <u>por</u><br>(Furnish) | DOR.<br>(Instali) | Total<br>Projected Coat   | <u>Şub-Tot</u>                         |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                |                    |                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         |                   |                           |                                        |
|                 | SHUTTLE TRAIN UNLOADING SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | <b> </b>       | <b> </b>           |                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         |                   |                           |                                        |
|                 | Equipment To Unked Trains @ 1509<br>TPH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                | <u> </u>           |                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         |                   |                           | 6,737                                  |
|                 | Excavation for track hopper pit foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | 1              | LS                 | 0.00                             | 0                                                    | 500,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 900,000                   |                                        |
|                 | Concrete work for track hopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ëst                 | 1              | L8                 | 400,000.00                       | 400,000                                              | 160,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 280,000                   |                                        |
|                 | Track hopper building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | 1              | 18                 | 120,000.00                       | 120,000                                              | 48,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 108,000                   |                                        |
|                 | Cer shaker / support steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | <u>14</u>          | 60,000.00                        | 60,000                                               | 24.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 174,000                   |                                        |
|                 | Hopper and grizzly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | 18                 | 160,000.00                       | 150,000                                              | 60,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 160.000                   |                                        |
|                 | Track hopper dust syppression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 EACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Est                 |                |                    | 100,000,00                       | 100,000                                              | 40,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 160,000                   |                                        |
|                 | Belt feeders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ZEACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Est                 | <u>t</u>       |                    | 120,000.00                       | 120,000                                              | 48,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 198,000                   |                                        |
|                 | Concretework for conveyor / tunnel<br>Belt conveyor, 45" wide, 500 ft long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <br>Est             | <u>}</u>       | LS                 | 150,000.00                       | 150,000<br>720,000                                   | 60,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 780,000                   |                                        |
| · · · · · · · · | Diverter gate on top of aligs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | ┟╌╌┼╾╍╴        |                    | 30,000,00                        | 30,000                                               | 576,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 606,000                   |                                        |
| · · ·           | Transfer conveyor on top of silos, 36" wide, 50 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | LS                 | 100.000.00                       | 100,000                                              | 12,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 112,000                   |                                        |
|                 | Modification on top of the allo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | 1              |                    | 50,000,00                        | 50,000                                               | 40,000 20,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                         |                   | 90,000                    |                                        |
|                 | Foundation work for conveyors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | LS                 | 30,000.00                        | 30,000                                               | 24,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 50,000                    | <u> </u>                               |
|                 | Dust suppression for belt conveyors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | <u>}</u>       |                    | 200.000.00                       | 200,000                                              | 60.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 224,000                   |                                        |
|                 | Fire protection for conveyors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | LS                 | 32,500.00                        | 33.000                                               | 32,500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | <u>113,000</u><br>232,500 | <del></del>                            |
|                 | HVAC for track hopper pit, electrical bidg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | 1              | ιš                 | 200,000.00                       | 200,000                                              | 80,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 130.000                   |                                        |
|                 | Sumo pumo evisiem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | 1.9                | 60,000,00                        | 50.000                                               | 20.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | <u> </u>                |                   | 70.000                    |                                        |
|                 | Hoists and trolleys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | $-\frac{1}{1}$ | 1.5                | 50,000.00                        | 50,000                                               | 20.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 70,000                    | ······································ |
|                 | Track work cost                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2500 LF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Eet                 | [              | LS                 | 250,000,00                       | 250,000                                              | 250,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 500.000                   |                                        |
|                 | Temporary Coffer Dam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 |                | iš –               | 500,000,00                       | 500.000                                              | 1,042,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | ··· ·                   |                   | 1,542,000                 |                                        |
|                 | Dewetering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Est                 | i              | <u>13</u>          | 2,000.00                         | 2,000                                                | 236,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 238,000                   |                                        |
|                 | Electrical - Aux, Power - 13.8 KV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                |                    |                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                         |                   |                           | 1,510                                  |
|                 | Vacuum Circuit Breaker and Cubicles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | દશ                  | 2              | ËA                 | 25,000.00                        | 50,000                                               | 3,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                         |                   | 53.000                    |                                        |
|                 | 460 V Transformer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Includes Selichgear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Est                 | 2              | Ea                 | 150,000.00                       | 300,000                                              | 28,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 328,000                   |                                        |
|                 | MCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 480 V (40 Motors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Est                 |                | ËA                 | 40,000.00                        | 120,000                                              | 32,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 152,000                   | ······                                 |
|                 | Trava                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Trays (Transformer Feed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Est                 | 2,000          | LF                 | 30.00                            | 80,000                                               | 58,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 118,000                   |                                        |
|                 | Conduits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condults (500 LF typ per motor lead)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Est                 | 28,000         | LF 🔤               | 3.00                             | 80,000                                               | 173,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 233,000                   |                                        |
|                 | Transformer Feeder Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MV-80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Est                 | 2,000          | LF                 | £.00                             | 16.000                                               | 40.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 56.000                    |                                        |
|                 | MV Wining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3/C #2 - 600 LF per malor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Est                 | 20,000         | LF                 | 5.00                             | 100,000                                              | 318,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                         |                   | 418,000                   |                                        |
|                 | Electrical Building - Pre Fabricated - Complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Includes foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Est                 |                | L9                 | 110.000.00                       | 110,000                                              | 22,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                         |                   | 199 044                   |                                        |
|                 | Contraction of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t | a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | E                   |                | <u></u>            | 1 10,000,00                      | 110,000                                              | CC,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                     |                         |                   | 132,000                   |                                        |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 70 OF 107

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|                | IT: 2C-2                                                                                                  |                                            |                     |          |                           |                                         | Tampa Electr                                         | ic                                                                          |                                       | 1                      | Estimate No.     | : XXXX                         |                   |
|----------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------|----------|---------------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------|------------------------|------------------|--------------------------------|-------------------|
|                | & Lundy Le                                                                                                |                                            |                     |          |                           |                                         | Polk Station                                         | 1                                                                           |                                       |                        | Project No.      | 08476-819                      |                   |
| Chie           |                                                                                                           |                                            |                     |          | [                         |                                         | Rail Deliver                                         | /                                                                           |                                       |                        | Data             | 9/5/03                         |                   |
|                |                                                                                                           | Cest Type:                                 |                     |          | <u> </u>                  | Ore                                     | der of Magnit                                        | ude                                                                         |                                       | · · · · ·              | · · · ·          | DRAFT                          |                   |
|                |                                                                                                           | Est-Estimated                              |                     |          |                           |                                         |                                                      | NFIDENTIAL-                                                                 |                                       |                        |                  | [                              |                   |
|                |                                                                                                           | B-Bid                                      |                     | <b>*</b> | 1                         |                                         | 1                                                    | 1                                                                           | 1                                     | 1                      | Run Date         | 9/5/03                         |                   |
|                |                                                                                                           | OPE-Other Project Bid                      |                     |          |                           |                                         | <u>+</u>                                             |                                                                             |                                       |                        | Preparer         |                                |                   |
| _              |                                                                                                           | Q=Vendor Quete                             |                     |          |                           |                                         |                                                      |                                                                             |                                       |                        | Reviewer         |                                |                   |
|                |                                                                                                           |                                            |                     |          |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                | <u></u>           |
| 55 51<br>55 51 | Description                                                                                               | Score Definition                           | <u>Cost</u><br>Ivre | Quantity | <u>Unit of</u><br>Measure | <u>Unit Equip./ Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br><u>Material Cost</u> | <u>Total</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | Sub:<br>Contract<br>2                 | <u>DOR</u><br>(Eumish) | DOR<br>(lostali) | <u>Total</u><br>Projected Cost | <u>Sub-Totais</u> |
|                | Conveyor Lighting                                                                                         | 650 LF                                     | Est                 | 1        | LS                        | 9,100.00                                | 9,000                                                | 11,000                                                                      |                                       |                        |                  | 20,000                         |                   |
|                | Control & Instrumentation                                                                                 |                                            |                     | [        |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                |                   |
|                |                                                                                                           |                                            |                     | I        |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                | 333,0             |
|                | DCS Upgrages<br>DCS BOP Equipment                                                                         | 6 L/O's per Motor                          | Est                 | 1        | LS                        | 140,000.00                              | 140,000                                              | 140,000                                                                     |                                       |                        |                  | 280,000                        |                   |
| ·              | Locally Mounted Instruments                                                                               | · ····                                     | Est<br>Est          | 1        | <u>LS</u>                 | 25,000.00                               | 25.000                                               | 25,000                                                                      |                                       |                        |                  | 50,000                         | <u> </u>          |
|                |                                                                                                           | 1                                          |                     | <u>├</u> | ×                         | 100.00                                  | 1.000                                                | 2,000                                                                       |                                       |                        |                  | <u></u>                        |                   |
|                | BOP Items                                                                                                 | · ·                                        |                     |          |                           |                                         |                                                      | ;                                                                           |                                       | ······                 |                  |                                | 736,1             |
|                | Fire Protection Upgrade                                                                                   | 500 LF                                     | Est                 |          | L\$                       | 47,500.00                               | 48,000                                               | 42,000                                                                      | · · · · · · · · · · · · · · · · · · · |                        |                  | 90,000                         |                   |
|                | Stormwater/Cost Runolf Grading Upgrades                                                                   | 1500 LF                                    | Est                 |          |                           | 1,000,00                                | 1,000                                                | 6,000                                                                       |                                       |                        |                  | 7,000                          | • •               |
|                | Relocation of Wetlands                                                                                    | 23 Astes                                   | Est                 |          | <u>LS</u>                 | 115,000.00                              | 115,000                                              | 376,000                                                                     |                                       |                        | _                | 491,000                        |                   |
|                | Underground Utility Identification and Relocation<br>General Services Interconnection (water & air, etc.) | Tampa - Allowance<br>Allowance             | Est                 |          | ( <u>5</u>                | 12,500.00                               | 13,000<br>25,000                                     | 12,000                                                                      |                                       |                        |                  | 25,000                         |                   |
|                | Contactor Over Whole Inter Contractor ( Walter & Mar, etc.)                                               |                                            | Ear                 | 1        | <u>La</u>                 | 25,000.00                               | 29,000                                               | 25,000                                                                      |                                       |                        |                  | 50,000                         |                   |
|                | Adjustment for FL Building Code                                                                           |                                            |                     |          |                           |                                         |                                                      | ········                                                                    |                                       | · ··· ···              |                  | f                              | - <b></b>         |
|                | Steel @ 7%                                                                                                | Applies to Estimated Steel Cost            | Est                 | 1        | ເຮ                        |                                         | 0                                                    | 39,375                                                                      |                                       |                        |                  | 39,375                         |                   |
|                | Concrete @ 10%                                                                                            | Applies to Estimated Concrete Cost         | Est                 | 1        | L\$                       |                                         | 0                                                    | 33,750                                                                      |                                       |                        |                  | 33,750                         |                   |
|                | Sub-Total                                                                                                 |                                            | · · · ·             |          |                           |                                         | 4,508,000                                            | 4,724,875                                                                   |                                       |                        |                  | 9,316,625                      | ······            |
|                | Other Costs/Adjustments                                                                                   |                                            |                     | · · ·    |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                |                   |
|                |                                                                                                           |                                            |                     |          |                           |                                         |                                                      |                                                                             |                                       |                        |                  | l                              | 708,0             |
|                | Contractor's General & Administrative Costa                                                               | Based 5% of Equip, Material,<br>and Labor  |                     |          |                           |                                         |                                                      | 236,000                                                                     |                                       |                        |                  | 236,000                        |                   |
|                | Contractor's Profit                                                                                       | Based 10% of Equip,<br>Material, and Labor |                     |          |                           |                                         |                                                      | 472.000                                                                     |                                       |                        |                  | 472,000                        |                   |
|                |                                                                                                           |                                            |                     |          |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                |                   |
|                | Total Equipment, Material and Labor<br>Costs                                                              |                                            |                     |          |                           |                                         | 4,508,000                                            | 5,432,875                                                                   |                                       |                        |                  | 10,024,625                     | 10,024,6          |
|                |                                                                                                           |                                            |                     |          |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                |                   |
|                | Freight, Dutles, Taxes, Etc.                                                                              |                                            | <u> </u>            |          |                           |                                         |                                                      |                                                                             |                                       |                        |                  | ┝━━━━━╉                        |                   |
|                |                                                                                                           |                                            |                     |          |                           |                                         |                                                      |                                                                             |                                       |                        |                  |                                |                   |

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LAMFA ELECTRIC COMPANY DOCKET NO. 031035-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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| EXHIB        | FT: 2C-2                                           |                                                |                |          |                                       | 1                                       | ampa Electr                                   |                                             |                                     |                        | Latimate No.:           | X000X                                             |                 |
|--------------|----------------------------------------------------|------------------------------------------------|----------------|----------|---------------------------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------|-------------------------------------|------------------------|-------------------------|---------------------------------------------------|-----------------|
| Jargani      | Lundy LC                                           |                                                | I              |          |                                       |                                         | <b>Polk Station</b>                           | 1                                           |                                     |                        | Project No.             | 89476-819                                         | <u> </u>        |
| Chic         | 2000                                               |                                                |                |          |                                       |                                         | Rali Delivery                                 | 1                                           |                                     |                        | Dete                    | 9/5/63                                            |                 |
|              |                                                    | Cost Type:                                     |                |          | 1                                     | On                                      | ler of Magnit                                 |                                             |                                     |                        |                         | DRAFT                                             |                 |
|              |                                                    | Est-Estimated                                  |                |          |                                       |                                         | RY AND COI                                    |                                             |                                     |                        | <u> </u>                |                                                   |                 |
|              |                                                    | 9-04                                           | 1              |          | 1                                     |                                         | 1                                             |                                             |                                     |                        | Run Date:               | 9/5/03                                            |                 |
|              |                                                    | OP8=Other Project Bid                          |                |          |                                       |                                         |                                               |                                             |                                     |                        | Preparen                | GBB/SHI                                           | 1.              |
|              |                                                    | Q=Verider Quete                                |                |          |                                       |                                         |                                               |                                             |                                     |                        | Reviewer                |                                                   |                 |
|              |                                                    |                                                |                |          | 1                                     |                                         |                                               |                                             |                                     |                        |                         |                                                   |                 |
| Aoet.<br>Ng. | Description                                        | Scope Definition                               | Cost.<br>Type  | Quentity | Unit of<br>Measure                    | <u>Unit Eaulo./ Mət.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | <u>Sub-</u><br><u>Contract</u><br>1 | <u>DOR</u><br>(Fumish) | <u>DOR</u><br>(instali) | <u>Totel</u><br>Projected Cost                    | <u>. Sub-To</u> |
|              | Freight-ExWorks To Site                            | Included in Material &<br>Equipment Costs      |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | Included in<br>Material & .<br>Equipment<br>Costs | ,               |
|              | Taxes - Sales/Use/VAT/Business/Elc.                | Not included                                   |                | <u>·</u> |                                       |                                         |                                               |                                             |                                     |                        |                         | Not Included                                      |                 |
|              | Total Direct Project Costs                         |                                                |                |          |                                       |                                         | 4,508,000                                     | 5,432,875                                   |                                     |                        |                         | 10,024,625                                        | ; 10,02         |
|              | Indirect Costs                                     |                                                | · <del>.</del> |          |                                       |                                         | · · · · · · · · ·                             |                                             |                                     |                        |                         |                                                   | 1,36            |
|              | Insuranca<br>Builders Risk                         |                                                |                |          |                                       | ·                                       |                                               |                                             |                                     |                        |                         |                                                   |                 |
|              |                                                    |                                                | <b> </b>       | <u> </u> |                                       |                                         |                                               |                                             |                                     |                        | · · · · ·               | Not Included                                      |                 |
|              | Engineering/Procurement                            |                                                |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 701,724                                           |                 |
|              | Tampa Électric Interface with A/E                  | Project Mgmnt, Eng and<br>Construction Support |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 70,172                                            | е<br>           |
|              | Tampa Electric Management of EPC Contractor        | Two men for 2 yrs @ \$75K.                     |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 300,000                                           |                 |
|              | Permits and Foes                                   | Tempe                                          |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 293,000                                           | *               |
| ·····        | Total Indirect Project Costs                       |                                                |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 1,364,896                                         |                 |
|              | Escalation                                         | Not Included                                   |                |          |                                       | · · · ·                                 |                                               |                                             |                                     |                        |                         | Not Included                                      |                 |
|              | EPC Costs                                          |                                                |                |          |                                       |                                         | ·                                             |                                             |                                     |                        |                         | 1,458,583                                         | 1,45            |
|              | General & Administrative (G&A) @ 5% of Dirct Costs |                                                |                |          | i                                     |                                         |                                               |                                             |                                     |                        |                         | 501,231                                           |                 |
|              | Efficacy insurance @ .8% of Direct Costs           |                                                |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 80,197                                            |                 |
|              | Fee @ 8% of Direct Costs                           | Profit and Home Office<br>Overhead             |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 801,970                                           |                 |
|              | Performance Bond @ .75% of Direct Costa            |                                                |                |          |                                       |                                         |                                               |                                             |                                     |                        |                         | 75,185                                            |                 |
| · · ·        | Contingency                                        |                                                |                |          |                                       |                                         | · · · · · · · · ·                             |                                             |                                     |                        |                         |                                                   | 2,56            |
|              | Contingency                                        | 20% of overall cost                            |                |          |                                       |                                         | · · · · · · · · · · · · · · · · · · ·         |                                             | • •                                 | · · · ·                | <u> </u>                | 2,569,621                                         |                 |
|              |                                                    |                                                |                |          | · · · · · · · · · · · · · · · · · · · |                                         |                                               |                                             |                                     |                        | F                       | 2,008,621                                         |                 |

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DOCKET NO. 63103-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 72 OF 107

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|              |                                      |                       |               |          |                           |                                         |                                               |                                             |                                                |                        | •                       |                                |            |
|--------------|--------------------------------------|-----------------------|---------------|----------|---------------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------|------------------------------------------------|------------------------|-------------------------|--------------------------------|------------|
|              | IT: 2C-2                             | }                     |               | Т —      | 1                         | 1                                       | Tampa Electi                                  |                                             |                                                |                        |                         |                                |            |
| Sergen       | t & Lundy LLC                        | 1                     |               |          | +                         |                                         |                                               |                                             |                                                | 1                      | stimate No.             |                                |            |
|              |                                      |                       |               | +        | <u> </u>                  |                                         | Polk Station                                  |                                             |                                                | 1                      | Project No.:            | 99476-019                      | ·          |
|              |                                      |                       |               | 1        | ļ                         | <u> </u>                                | Rall Deliver                                  | <u>/</u>                                    |                                                |                        | Deter                   | 115/03                         |            |
|              |                                      | Cost Type:            |               |          | <u> </u>                  | Ore                                     | der of Magnit                                 | lude                                        | 1                                              |                        |                         | DRAFT                          |            |
|              |                                      | Est-Estimated         |               |          | •                         | -PRELIMINA                              | RY AND CO                                     | NFIDENTIAL-                                 |                                                | 1                      |                         |                                |            |
|              |                                      | 8-Die                 | 1             |          |                           |                                         | 1                                             | 1                                           | <u>† – – – – – – – – – – – – – – – – – – –</u> | <u> </u>               | Run Date;               | lama                           |            |
|              |                                      | OPR-Other Project Eld |               | 1        | 1                         | 1                                       | <u> </u>                                      |                                             | <b></b>                                        |                        |                         |                                | <u></u>    |
|              |                                      | Q=Vender Quote        | · · · · ·     |          | <del> </del>              | · · · · · · · · · · · · · · · · · · ·   |                                               | ·                                           | ļ                                              |                        | Preparer:               |                                |            |
|              |                                      |                       |               | ·····    | <b>├</b> ───              |                                         | ÷                                             |                                             |                                                |                        | Reviewer:               |                                |            |
|              |                                      |                       |               | <u> </u> |                           |                                         | I                                             | L                                           |                                                |                        |                         |                                |            |
| Acet.<br>No. | Description                          | Scope Definition      | Cost.<br>Type |          | <u>Unit of</u><br>Measure | <u>Unit Equip./ Met.</u><br><u>Cost</u> | <u>Totel</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract                               | <u>DOR</u><br>(Eumish) | <u>DOR</u><br>(Install) | <u>Total</u><br>Projected Cost | Sub-Totals |
|              | Interest During Construction (AFUDC) | Not included          | 1             |          |                           |                                         |                                               |                                             |                                                |                        |                         |                                |            |
|              |                                      |                       | <u> </u>      |          |                           |                                         |                                               |                                             |                                                |                        |                         | Not included                   | <u> </u>   |
|              | Total Project Cost                   |                       |               |          |                           |                                         |                                               |                                             |                                                |                        |                         | 15,417,725                     | 15,417,72  |
|              |                                      |                       |               | -        |                           |                                         |                                               |                                             |                                                |                        |                         |                                | ·····      |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 73 OF 107

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FOR PRODUCTION OF DOCUMENTS

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#### I AMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

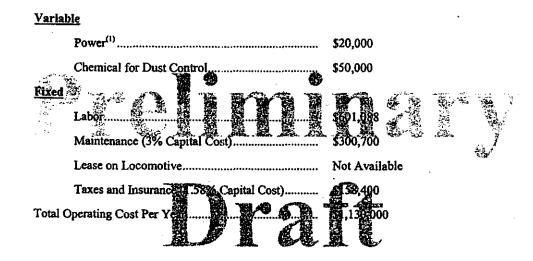
**CONFIDENTIAL** 



SL-008160 Project No. 09476-019 September 4, 2003

#### **EXHIBIT 2C-3**

#### OPERATING COST ESTIMATE FOR POLK BUILD IN SHUTTLE DELIVERY



<sup>(1)</sup>Calculated on replacement fuel cost only.

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 74 OF 107

TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 4, 2003

#### **EXHIBIT 2D-1**

#### POLK DIRECT DELIVERY - ROTARY DUMP SCENARIOS

INDEPENDENT ESTIMATES

# \* reliminary Draft

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 75 OF 107

|        | <u>T: 2D-1</u>                                                                        | 1                                     | _J                | L        |                    | ۱ ۱                                   | ampa Electr                                   | ic                                                         | <u> </u>              | E                       | Estimate No.            | : XXXX                         | ·        |
|--------|---------------------------------------------------------------------------------------|---------------------------------------|-------------------|----------|--------------------|---------------------------------------|-----------------------------------------------|------------------------------------------------------------|-----------------------|-------------------------|-------------------------|--------------------------------|----------|
| hrgent | & Lundy LLC                                                                           |                                       |                   |          |                    |                                       | Polk Station                                  |                                                            | 1                     |                         | Project No.:            | : 09476-019                    |          |
| Chic   |                                                                                       |                                       | 1                 |          |                    | ·····                                 | Rail Delivery                                 |                                                            | 1                     | 1                       | Date                    | : 9/5/03                       |          |
|        |                                                                                       | Cost Type:                            | -                 |          | +                  | 0.7                                   | ier of Magnit                                 |                                                            | <del> </del>          |                         | <u>+</u>                |                                |          |
|        |                                                                                       | Est-Estimated                         |                   |          | +                  |                                       |                                               | NFIDENTIAL-                                                | <u></u> +             |                         | {                       | <u>↓</u>                       |          |
|        |                                                                                       |                                       |                   | <u> </u> | <u> </u>           | -PRELIMINA                            | RY AND COL                                    | VE DENTIAL-                                                |                       |                         |                         |                                |          |
|        |                                                                                       | A+8W                                  |                   | ļ        |                    |                                       |                                               |                                                            |                       |                         | Run Date:               |                                |          |
|        |                                                                                       | OPB=Other Project Bid                 |                   |          |                    |                                       |                                               |                                                            |                       |                         | Preparer                | GBB/SM                         |          |
|        |                                                                                       | Q=Vender Quote                        | 1                 |          |                    |                                       |                                               |                                                            |                       |                         | Reviewer                |                                |          |
|        |                                                                                       |                                       |                   |          |                    |                                       |                                               | _                                                          |                       |                         |                         |                                |          |
| E E    | Description                                                                           | Scope Definition                      | Cost.<br>Ivpe     | Quantity | Unit of<br>Measure | Unit Eculo / Mat.<br>Cost             | <u>Total</u><br>Equipment or<br>Material Cost | Total.<br>Construction<br><u>5 Erection</u><br><u>Cost</u> | Sub-<br>Contract<br>£ | <u>DOR</u><br>(Furnish) | <u>DOR</u><br>((nstali) | <u>Total</u><br>Proiected Cost | Sub-Tot  |
|        | ROTARY DUMPER AR PLANT - 2,500                                                        |                                       |                   |          |                    | · · · · · · · · · · · · · · · · · · · |                                               |                                                            |                       |                         |                         |                                |          |
|        | <u>TPH</u>                                                                            |                                       |                   |          | <b> </b> i         |                                       |                                               |                                                            |                       |                         |                         |                                |          |
|        | Equipment To Unload Trains                                                            |                                       |                   | j        |                    |                                       |                                               |                                                            |                       |                         | ĺ                       |                                | 19,29    |
|        | Excevation for rotary car dumper foundation                                           |                                       | Est               | 1        | LS                 | 0.00                                  | 0                                             | 1,300,000                                                  |                       |                         |                         | 1,300,000                      |          |
|        | Concrete work for rotary car dumper / positioner                                      |                                       | Est               | 1        | 18                 | 1,700,000.00                          | 1,700,000                                     | 680,000                                                    |                       |                         |                         | 2,380,000                      |          |
|        | Dumper building including control room                                                |                                       | Est               | <u> </u> | LS                 | 400,000.00                            | 400,000                                       | 160,000                                                    |                       |                         |                         | 560,000                        |          |
|        | Hopper and grizzly                                                                    |                                       | Est               | 1        | LS                 | 200,000.00                            | 200,000                                       | 80,000                                                     |                       |                         |                         | 280,000                        |          |
|        | Dumper dust suppression                                                               | · · · · · · · · · · · · · · · · · · · | Est               | 1        | LS                 | 100,000.00                            | 100,000                                       | 40,000                                                     |                       |                         | I                       | 140,000                        |          |
|        | Rotary car dumper                                                                     |                                       | Est               |          | LS                 | 1,100,000.00                          | 1,100,000                                     | 990,000                                                    | L                     |                         | i                       | 2,090,000                      | ·        |
|        | Bell feeders                                                                          |                                       | <u>Est</u><br>Ést | 1        | LS.                | 1,100,000.00                          | 1,100,000                                     | 500,000 80,000                                             |                       |                         |                         | 1,600,000                      | <u>_</u> |
|        | Concretework for conveyor / tunnel                                                    |                                       | Est               |          | LS                 | 400,008,00                            | 400,000                                       | 160,000                                                    |                       |                         | i                       | 560,000                        |          |
|        | Belt conveyor, 60" wide, 500 ft long                                                  | -}                                    | - Est             | <u> </u> | LS                 | 750,000.00                            | 750,000                                       | 600,000                                                    | ])                    |                         | <u> </u>                | 1.350.000                      |          |
|        | Storage dome, 15,000 tons                                                             |                                       | Est               |          | LS                 | 190,000,00                            | 150,000                                       | 60.000                                                     |                       |                         | <u> </u>                | 210,000                        |          |
|        | Foundation for storage dome                                                           | 1                                     | Est               | 1        | LS                 | 200,000.00                            | 200,000                                       | 80.000                                                     |                       |                         |                         | 280,000                        |          |
|        | Lowering well inside dome                                                             | 1                                     | Est               | <u> </u> | LS                 | 100,000.00                            | 100,000                                       | 40,000                                                     |                       |                         | · · · · ·               | 140,000                        |          |
|        | Excevation for reclaim hopper pit foundation                                          |                                       | Est               | 1        | lis                | 0.00                                  | 0                                             | 300,000                                                    |                       |                         | l                       | 300,000                        |          |
|        | Concrete work for reclaim hopper                                                      | 1                                     | Ext               | 1        | 1.8                | 300,000.00                            | 300,000                                       | 120,000                                                    |                       |                         | 1                       | 420,000                        |          |
|        | Hopper and orizzly                                                                    |                                       | Est               | 1        | LS                 | 1\$0,000.00                           | 150,000                                       | 60,000                                                     |                       |                         |                         | 210,000                        |          |
|        | Beit foeder                                                                           | 2 Each                                | Est               | 1        | LS                 | 120,000.00                            | 120,000                                       | 48,000                                                     |                       |                         |                         | 168,000                        |          |
|        | Concretework for conveyor / tunnel                                                    |                                       | Est               | . 1      | <u>(8</u>          | 100,000.00                            | 100,000                                       | 40,000                                                     | 1                     |                         |                         | 140,000                        |          |
|        | Belt conveyor, 48" wide, 1000 ft long                                                 |                                       | Est               |          | LS                 | 1,000,000.00                          | 1,000,000                                     | 400,000                                                    |                       |                         |                         | 1,400,000                      |          |
|        | Overlar gale on top of silos                                                          | -                                     | Eet               | 1        | L <u>Ş</u>         | 35,000.00                             | 30,000                                        | 12.000                                                     |                       |                         |                         | 42,000                         |          |
|        | Transfer conveyor on top of slice, 48" wide, 50 ft<br>Modification on top of the silo |                                       | Est               | <u> </u> | LS                 | 100,000.00                            | 100,000                                       | 40,000                                                     |                       |                         | ļ                       | 140,000                        |          |
|        | Foundation work for conveyors                                                         | -f                                    | Est               | 1        | 1 <u>8</u><br>18   | 50,000.00                             | 50,000                                        | 20,000                                                     |                       |                         | <u> </u>                | 70,000                         |          |
|        | Dust suppression for belt conveyors                                                   |                                       | Est               |          | 18<br>18           | 38,000.00                             | 30,000                                        | 24,000                                                     | ··                    | ···                     |                         | 54,000<br>280,000              |          |
|        | Fire protection for convevors                                                         |                                       | Est               |          |                    | 75,000.00                             | 75.000                                        | 75.000                                                     |                       |                         | <b> </b>                | 150.000                        |          |
|        | HVAC for dumper pit and transfer house                                                | 1                                     | Est               | <u> </u> | LS                 | 200,000.00                            | 200.000                                       | 80.000                                                     |                       |                         |                         | 280,000                        |          |
|        | Sump pump system                                                                      | T                                     | Est               |          | LS                 | 50,000,00                             | 50.000                                        | 20,000                                                     |                       |                         |                         | 70,000                         | ·        |
|        | Holats and irolleys                                                                   | 1                                     | En                | <u>i</u> | is                 | 50,000,00                             | 50,000                                        | 20,000                                                     | i                     |                         | t                       | 70,000                         |          |
|        | Loop track cost                                                                       | 6000 L/F                              | Est               | 1        | LS                 | 800,000.00                            | 800,000                                       | 600.000                                                    |                       |                         | <b> </b>                | 1,600,000                      |          |
|        | Londer / dozer                                                                        |                                       | Est               | 1        | LŚ                 | 750,000.00                            | 750,000                                       | 0                                                          |                       |                         | i                       | 750,000                        |          |
|        | Cemporary Coller Dam                                                                  | 1                                     | Est               | •        | (3                 | 600,000.00                            | 600,000                                       | 1,042,000 238,000                                          |                       |                         |                         | 1.542.000                      |          |
|        | Dewetering                                                                            |                                       | Est               | 1        | L8                 | 2,000.00                              | 2,000                                         | 236,000                                                    |                       |                         |                         | 238,000                        |          |
|        |                                                                                       |                                       | , I               |          |                    |                                       |                                               |                                                            |                       |                         |                         |                                |          |
|        | Electrical - Aux. Power - 13.8 KV                                                     | 1                                     | - P               |          |                    |                                       |                                               |                                                            |                       |                         |                         | . — —                          | 1,74     |

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 76 OF 107

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|               | <u>T: 2D-1</u>                                                                                            |                                                   | <u>}</u>      | 1        | 1                                              |                           | Tampa Electr                                         | ic                                            |                              |                  | istimate No.;           | XXXXX                    | •        |
|---------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------|----------|------------------------------------------------|---------------------------|------------------------------------------------------|-----------------------------------------------|------------------------------|------------------|-------------------------|--------------------------|----------|
| Ingent        | & Lundy LLC                                                                                               |                                                   |               |          |                                                |                           | Polk Station                                         | 1                                             |                              |                  | Project No.:            | 00475-019                |          |
| Chic          | ago                                                                                                       |                                                   |               | 1        | Γ                                              |                           | Rail Delivery                                        | /                                             |                              |                  | Date:                   | 9/5/83                   | •        |
|               |                                                                                                           | Cest Type:                                        |               | 1        | 1                                              | On                        | der of Magnit                                        | ude                                           |                              |                  |                         |                          |          |
|               |                                                                                                           | Est-Estimated                                     |               |          | 1                                              |                           |                                                      | NFIDENTIAL-                                   |                              |                  | (                       |                          |          |
|               |                                                                                                           | D-Did                                             | i — —         | +        | <u> </u>                                       |                           |                                                      |                                               |                              |                  | Run Date:               | 9/5/83                   |          |
|               | · · · · · · · · · · · · · · · · · · ·                                                                     | OFG-Other Project Bid                             | {             |          | +                                              | {                         | <u>+</u>                                             |                                               |                              |                  | Preserer                |                          | <u> </u> |
|               |                                                                                                           | Q=Vendor Quete                                    |               |          | <u>† – – – – – – – – – – – – – – – – – – –</u> | <u> </u>                  | <u> </u>                                             |                                               |                              |                  | Reviewer                |                          |          |
|               |                                                                                                           |                                                   | [             |          |                                                | †                         |                                                      |                                               |                              |                  |                         |                          |          |
| 1951.<br>1194 | <u>Pesatiztion</u>                                                                                        | Score Definition                                  | Cost.<br>Type | Quantity | Unit of<br>Measure                             | Unit Equip / Mat.<br>Cost | <u>Total</u><br>Equipment or<br><u>Material Cost</u> | Total.<br>Construction<br>& Erection.<br>Cost | <u>Sub-</u><br>Contract<br>S | DOR.<br>(Fumiah) | <u>DOR</u><br>(Install) | Iotal.<br>Prolected Cost | Sub-Tot  |
|               | Vacuum Circuit Breaker and Cubicles                                                                       |                                                   | E#            | 2        | EA                                             | 25,600.00                 |                                                      | 3,000                                         |                              |                  |                         | 53,000<br>\$28,000       |          |
|               | 480 V Transformer<br>MCC                                                                                  | Includes Swiichgear<br>480 V (SG Masore)          | Est.          | 2        | Es .                                           | 150,000.00                | 300,000                                              | 28.000                                        |                              |                  |                         | 328,000                  |          |
|               |                                                                                                           |                                                   | Est           | 4        | EA                                             | 40,000.00                 | 160,000                                              | 42,000                                        |                              |                  |                         | 202,000                  |          |
|               | Trava                                                                                                     | Trays (Transformer Feed)                          | Est           | 2,000    | LF                                             | 30.00                     | 60,000                                               | 58,000                                        |                              |                  |                         | 118.000                  |          |
|               |                                                                                                           | Conduits (500 LI <sup>E</sup> typ per motor feed) | Est           | 25,000   | LF.                                            | 3.00                      |                                                      | 216.000                                       |                              |                  |                         | 291.000                  |          |
|               | Transformer Feeder Cable                                                                                  | MV-80                                             | Est           | 2.000    |                                                | 8.00                      |                                                      | 40.000                                        |                              |                  |                         | 56,000                   |          |
|               |                                                                                                           | 3/C #2 - 500 LF per meter                         | Est           | 25,000   | LF                                             | \$.00                     |                                                      | 398,000                                       |                              | 1.               |                         | 523,000                  |          |
|               | Electrical Building - Pre Fabricated - Complete                                                           | Includes foundations                              | Est           | 1        | LS                                             | 110,000.00                | 110,000                                              | 22,000                                        |                              |                  |                         | 132,000                  |          |
|               | Conveyor Lighting                                                                                         | 1500 LF                                           | Est           | 1        | LS                                             | 21,000.00                 | 21,000                                               | 24,000                                        |                              |                  |                         | 45,000                   |          |
|               | Control & Instrumentation                                                                                 |                                                   |               |          |                                                |                           |                                                      |                                               |                              |                  |                         |                          |          |
|               | OCS Upgrages                                                                                              | 6 I/O's per Motor                                 | Est           |          |                                                |                           |                                                      |                                               |                              |                  |                         |                          | 40       |
|               | DCS 60P Equipment                                                                                         |                                                   | Est           | <u> </u> | LS                                             | 175,000.00                | 175,000<br>25,000                                    | <u>175,000</u><br>25,000                      |                              |                  |                         | 350,000                  |          |
|               | Locally Mounted Instruments                                                                               |                                                   | Est           | <u>i</u> | LS ·                                           | 1,500.00                  | 2,000                                                | 4,000                                         |                              |                  |                         | 6,000                    |          |
|               | BOP Itema                                                                                                 |                                                   | ·             |          |                                                |                           |                                                      |                                               |                              |                  |                         |                          | 1.36     |
|               | Fire Protection Upgrade                                                                                   | 500 UF                                            | Est           |          | LS                                             | 47,500.00                 | 48,000                                               | 42,000                                        |                              |                  |                         | 90.000                   |          |
|               | Stomwater/Coal Runoff Grading Upgrades                                                                    | 1500 UF                                           | Est           |          | LS                                             | 1,000.00                  | 1,000                                                | 6.000                                         |                              | ———              | ~~~                     | 7.000                    |          |
|               | Relocation of Wetlands                                                                                    | 43 Acres                                          | Est           | 1        | LS                                             | 215,000.00                | 215,000                                              | 703,000                                       |                              |                  |                         | 918,000                  | _        |
|               | Underground Utility Identification and Relocation<br>General Services Interconnection (water & sir, etc.) | Tampa - Albuence<br>Albuence                      | <u>Est</u>    | <u> </u> | LS                                             | 12,600.00                 | 13,000                                               | 12,000                                        |                              |                  |                         | 25,000                   |          |
|               | ALL DATE AND LEADE DATE CALL DATE OF THE REAL OF THE ALL DATE                                             |                                                   | FH            | <u>'</u> | 10                                             | 23,000.00                 | 25,000                                               | 25,000                                        |                              |                  |                         | 50,000                   |          |
|               | Adjustment for FL Building Code                                                                           |                                                   |               |          |                                                |                           |                                                      |                                               |                              |                  |                         |                          |          |
|               | Stoel @ 7%                                                                                                | Applies to Estimated Steel Cost                   | Est           | 1        | LS                                             |                           | 0                                                    | 145,670                                       |                              |                  |                         | 145,670                  |          |
|               | Concrete 2 10%                                                                                            | Applies to Estimated Concrete Cost                | Est           |          | <u>LS</u>                                      |                           |                                                      | 124,860                                       |                              |                  |                         | 124,860                  |          |
|               | Sub-Total                                                                                                 |                                                   |               | ·        | ·                                              |                           | 12,528,000                                           | 10,280,530                                    |                              |                  |                         | 22,808,530               |          |
|               | Other Costs/Adjustments                                                                                   |                                                   |               |          |                                                |                           |                                                      |                                               |                              |                  |                         |                          | 1,542    |
|               |                                                                                                           | Based 5% of Equip, Material,<br>and Labor         |               |          |                                                |                           |                                                      | 514,000                                       |                              |                  |                         | 514,000                  |          |

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DOCKET NO. 431035-E1 CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 77 OF 107

|        | <u>IT; 2D-1</u>                                    |                                                |              |                 |                    |                                         | Tampa Electr                                                 | ic                                                                          |                         |                 | stimete No.:            | XXXX                                   |                                       |
|--------|----------------------------------------------------|------------------------------------------------|--------------|-----------------|--------------------|-----------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------|-----------------|-------------------------|----------------------------------------|---------------------------------------|
| argent | & Lundy LLE                                        |                                                | T            |                 |                    |                                         | <b>Polk Station</b>                                          |                                                                             |                         | ·               | Project No.:            | #\$476-01\$                            |                                       |
| Chic   | 1920                                               | T                                              | 1            |                 | 1 <del></del>      | 1                                       | Rail Delivery                                                |                                                                             |                         |                 |                         | 9/5/83                                 | <u> </u>                              |
|        |                                                    | Cost Type:                                     | 1            | 1               |                    | Ôn                                      | der of Magnit                                                | ude                                                                         |                         |                 |                         |                                        | · · · · · · · · · · · · · · · · · · · |
|        |                                                    | Est-Estimated                                  |              |                 | T                  | -PRELIMINA                              | RY AND CO                                                    | NFIDENTIAL-                                                                 | [                       |                 | [                       |                                        | 1                                     |
|        | · ·                                                | 0-014                                          |              |                 |                    |                                         | 1                                                            | l                                                                           |                         |                 | Run Date:               | 9/5/03                                 |                                       |
|        |                                                    | OPS-Other Project Bid                          | 1            |                 | 1                  |                                         |                                                              |                                                                             |                         |                 | Properati               |                                        | h                                     |
|        |                                                    | Q=Vender Queer                                 |              | 1               | 1                  |                                         |                                                              | ····                                                                        | · · ·                   |                 | Reviewer                |                                        |                                       |
|        |                                                    |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         |                                        |                                       |
| Acct.  | Pescription                                        | Score Definition                               | Cost<br>Iyps | Quantity        | Unit of<br>Measure | <u>Unit Equip./ Mat.</u><br><u>Cost</u> | <u>Total,</u><br><u>Baulament or</u><br><u>Meterial Cost</u> | <u>Iotal</u><br><u>Construction</u><br><u>&amp; Erection</u><br><u>Cost</u> | <u>Sub-</u><br>Contract | DOR<br>(Eumishi | <u>DQR</u><br>(Install) | <u>Total</u><br>Prolected Coat         | Sub-Tota                              |
|        | Contractor's Profit                                | Based 10% of Equip,<br>Material, and Labor     |              |                 | ÷                  |                                         |                                                              | 1,028,000                                                                   |                         |                 |                         | 1,028,000                              |                                       |
|        | Total Equipment, Material and Labor<br>Costs       |                                                |              | ·               |                    |                                         | 12,528,000                                                   | 11,822,530                                                                  |                         |                 |                         | 24,350,530                             | 24,350                                |
|        |                                                    | f                                              |              |                 |                    |                                         | <b> </b>                                                     |                                                                             |                         |                 |                         |                                        |                                       |
|        | Freight, Duties, Taxes, Etc.                       |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         |                                        |                                       |
|        | Freight-ExWorks To Sile                            | Included in Material &<br>Equipment Costs      | · · · · ·    |                 |                    | :                                       | -                                                            |                                                                             |                         |                 |                         | Included in<br>Material &<br>Equipment |                                       |
|        | Taxes - Sales/Upe/VAT/Business/Etc.                | Not included                                   | <u> </u>     |                 |                    |                                         | [                                                            |                                                                             |                         |                 |                         | Costs<br>Not included                  | ·                                     |
|        |                                                    |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | TVI IIVIJUOU                           |                                       |
|        | Total Direct Project Costs                         |                                                |              |                 |                    |                                         | 12,528,000                                                   | 11,822,530                                                                  |                         |                 |                         | 24,350,530                             | 24,35                                 |
|        | Indirect Costs                                     |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         |                                        | 2,467                                 |
|        | Insurance<br>Reliden Disk                          |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         |                                        |                                       |
|        | Builders Riak                                      |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | Not Included                           |                                       |
|        | Engineering/Procurement                            |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | 1,704.537                              |                                       |
|        | Tampa Electric Interface with A/E                  | Project Mgmnt, Eng and<br>Construction Support |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | 170,454                                | · ·                                   |
| İ      | Tamps Electric Management of EPC Contractor        | Two men for 2 yrs @ \$75K.                     |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | 300,000                                |                                       |
|        | Permits and Fees                                   | Tampa                                          |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | 293,000                                |                                       |
|        | Total Indirect Project Costs                       |                                                |              | · · · · · · · · |                    |                                         |                                                              |                                                                             |                         |                 |                         | 2,467,991                              |                                       |
|        | Escalation                                         | Not included                                   |              |                 |                    |                                         | · · · · · · · · · · · · · · · · · · ·                        |                                                                             |                         | i               |                         | Not Included                           |                                       |
|        |                                                    |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         |                                        |                                       |
|        | EPC Costs                                          |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | 3,543,002                              | 3,543                                 |
|        | General & Administrative (G&A) @ 5% of Dirct Costs |                                                |              |                 |                    |                                         |                                                              |                                                                             |                         |                 |                         | 1.217.527                              |                                       |

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT NO.(JBS-10)JOHN B. STAMBERG - CSXTDOCKET NO. 031033-EIPAGE 78 OF 107

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| EXHIE        | BIT: 2D-1                                |                                    |               | ·····    | <u> </u>           |                                         |                                                      |                                             | , ···            |                        |                         | •                              | <u> (</u>  |
|--------------|------------------------------------------|------------------------------------|---------------|----------|--------------------|-----------------------------------------|------------------------------------------------------|---------------------------------------------|------------------|------------------------|-------------------------|--------------------------------|------------|
|              | t & Lundy LLO                            |                                    |               | +        |                    |                                         | Tampa Electr                                         |                                             |                  | ļ                      | Estimata No.            |                                |            |
|              | cago                                     |                                    |               | <u> </u> |                    | <u> </u>                                | Polk Station                                         |                                             |                  |                        | Project No.             | 09478-019                      |            |
| - Contra     |                                          |                                    |               | L        | ļ                  |                                         | Rall Deliver                                         |                                             |                  |                        | Dete                    | 1/5/03                         |            |
|              |                                          | Cost Type:                         |               |          |                    |                                         | der of Magnit                                        |                                             |                  |                        |                         |                                |            |
|              |                                          | Est-Estimated                      |               |          | L                  | -PRELIMINA                              | ARY AND CO                                           | NFIDENTIAL-                                 |                  |                        |                         |                                |            |
|              | · · · · · · · · · · · · · · · · · · ·    |                                    | _             |          |                    |                                         |                                                      |                                             |                  |                        | Run Date:               | 9/5/83                         | `          |
|              |                                          | OPD=Other Project Bid              | ·             |          | L                  |                                         |                                                      |                                             |                  |                        | Proparar                | GOB/SM                         |            |
|              | · · · · · · · · · · · · · · · · · · ·    | Q-Vender Quete                     |               |          |                    |                                         |                                                      |                                             |                  |                        | Reviewer                |                                | · · · ·    |
| Acct.<br>No. | Description                              | Score Definition                   | Cost.<br>Type |          | Unit of<br>Measury | <u>Unit Equip./ Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br><u>Material Cost</u> | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract | <u>por</u><br>(Fumish) | <u>DOR</u><br>(Instali) | <u>Total</u><br>Projected Cost | Sub-Totals |
|              | Efficacy Insurance (2.8% of Direct Costs |                                    |               |          |                    |                                         |                                                      |                                             |                  |                        |                         | 194,804                        |            |
|              | Fee @ 3% of Direct Costs                 | Profit and Home Office<br>Overhead |               |          |                    |                                         |                                                      |                                             |                  |                        |                         | 1,948,042                      | · ·        |
|              | Performance Bond @ .75% of Direct Costs  |                                    |               |          |                    |                                         |                                                      |                                             |                  |                        |                         | 182,629                        |            |
|              | Contingency                              |                                    |               |          |                    |                                         |                                                      |                                             |                  |                        |                         |                                |            |
|              |                                          |                                    |               |          |                    |                                         |                                                      |                                             |                  |                        |                         |                                | 6,072,30   |
|              | Contingency                              | 20% of overall cost                |               |          | · · ·              |                                         |                                                      |                                             |                  |                        |                         | 6,072,305                      |            |
|              | Interest During Construction (AFUDC)     | Not included                       |               |          |                    |                                         |                                                      |                                             |                  |                        |                         | Not Included                   |            |
|              | Total Project Cost                       |                                    |               | ·        |                    |                                         |                                                      |                                             |                  |                        |                         |                                |            |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 79 OF 107

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FOR PRODUCTION OF DOCUMENTS

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

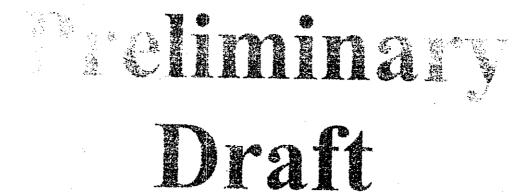


SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2D-2

## POLK DIRECT DELIVERY - BOTTOM DUMP SCENARIOS

#### INDEPENDENT ESTIMATES



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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 80 OF 107

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| ******       | BIT: 2D-2<br>H & Lundy <sup>LLE</sup>                                                 |                                       |              |                |                    | L                         | Tampa Electr                                   |                                             |                       |                        | Estimate No.             | XXXX                           |             |
|--------------|---------------------------------------------------------------------------------------|---------------------------------------|--------------|----------------|--------------------|---------------------------|------------------------------------------------|---------------------------------------------|-----------------------|------------------------|--------------------------|--------------------------------|-------------|
| Chi Chi      | k a Lunoy                                                                             |                                       |              |                | +                  |                           | Polk Station                                   |                                             | •                     |                        | Project No.              |                                |             |
|              |                                                                                       | Coat Type;                            | _            |                |                    | <u> </u>                  | Rail Deliver                                   |                                             |                       |                        | Date                     | : 9/5/03                       |             |
|              |                                                                                       | Cost type;                            |              | +              | +                  |                           | der of Magnil                                  |                                             |                       |                        |                          | DRAFT                          |             |
|              |                                                                                       | 8-6id                                 |              |                | +                  | -PRELIMINA                | ARY AND CO                                     | NFIDENTIAL-                                 |                       |                        |                          |                                |             |
|              |                                                                                       | OPS+Other Project Bid                 |              | +              | - <u> </u>         |                           |                                                |                                             |                       |                        | Run Date                 |                                |             |
|              |                                                                                       | Q=Vender Quete                        |              | <u> </u>       |                    |                           |                                                |                                             |                       |                        | Properer                 | GBS/SM                         |             |
|              |                                                                                       |                                       |              |                | <u> </u>           |                           | <u></u>                                        |                                             |                       |                        | Reviewer                 |                                | •           |
|              |                                                                                       |                                       |              |                | <u> </u>           |                           | <u> </u>                                       |                                             |                       |                        |                          |                                |             |
| Acet.<br>No. | Description                                                                           | Scope Definition                      | Cost<br>Type | Quantity       | Unit of<br>Measure | Unit Equip./ Mat.<br>Cost | <u>Total.</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Eraction<br>Cost | Sub-<br>Contract<br>2 | <u>DOR</u><br>(Eumish) | D <u>QR</u><br>(Install) | <u>Total</u><br>Projected Cost | Sub         |
|              | BOTTOM DUMPER AT PLANT - 1,500<br>TPH                                                 |                                       |              |                |                    |                           |                                                |                                             |                       |                        |                          |                                |             |
|              | Equipment To Unload Trains                                                            |                                       | _            |                |                    |                           |                                                |                                             |                       |                        | <u> </u>                 |                                |             |
| <b> </b>     | Excevation for track hopper pil foundation                                            |                                       | Est          | ,              |                    |                           |                                                |                                             |                       |                        |                          |                                |             |
|              | Concrete work for track hopper                                                        |                                       | Est          |                | LS<br>LS           | 0.00                      |                                                | 500,000                                     |                       |                        |                          | 500,000                        |             |
|              | Track hopper building                                                                 |                                       | Est          | · · · <u>1</u> | LS                 | 120,000.00                |                                                | 48,000                                      |                       |                        | · -···                   | 560,000                        | <u>-</u>    |
|              | Car sheker / support steel<br>Hopper and grizzly                                      |                                       | Est          | 1              | LS                 | 80,000.00                 | 60,000                                         | 24,000                                      |                       |                        |                          | 84,000                         |             |
|              | Track hopper dust suppression                                                         |                                       | Esi          |                | L8                 | 150,000.00                | 150,000                                        | 60,000<br>40,000                            |                       |                        | · · • · · • • •          | 210,000                        |             |
| <b></b>      | Belt feeders                                                                          | 2 EACH                                | Est          |                | LŚ                 | 120,000.00                |                                                | 48,000                                      |                       |                        |                          | 168,000                        | •           |
|              | Concretework for conveyor / tunnel<br>Belt conveyor, 48" wide, 500 ft long            | · · · · · · · · · · · · · · · · · · · | Est          |                | LS                 | 150,000.00                | 150,000                                        | 60,000                                      |                       |                        |                          | 210,000                        |             |
|              | Storage dome, 15,000 tons                                                             |                                       | Est          |                | LS<br>LS           | 600,000.00                | 600,000                                        | 460,000                                     |                       |                        |                          | 1,080,000                      |             |
|              | Foundation for storage dome                                                           |                                       | Est          | 1              | LS                 | 200,000.00                | 200,000                                        | 80,000                                      |                       |                        |                          | 210,000                        | <u> </u>    |
|              | Lowering well inside dome<br>Excevation for reclaim hopper pit foundation             |                                       | Est<br>Est   | 1              | 1.5                | 100,000.00                | 100,000                                        | 40,000                                      |                       |                        |                          | 140,000                        | <del></del> |
|              | Concrete work for recleim hopper                                                      |                                       |              | 1              | <u>LS</u>          | 0.00                      | 300,000                                        | 300,000                                     |                       |                        |                          | 300,000<br>420,000             |             |
| '            | Hopper and orizzly<br>Belt feeder                                                     |                                       | Est          | 1              | 18                 | 150,000.00                | 150,000                                        | 60,000                                      |                       |                        |                          | 210,000                        |             |
|              | Concretework for conveyor / tunnel                                                    | 2 EACH                                | Est          |                | LS IS              | 120,000.00                | 120,000                                        | 48,000                                      |                       |                        |                          | 168,000                        |             |
| _            | Bell conveyor; 36" wide, 1000 ft long                                                 |                                       | Est          |                | LS<br>LS           | 1,000,000.00              | 100,000                                        | 40,000                                      |                       |                        |                          | 140,000                        |             |
|              | Divertier gate on top of silos                                                        |                                       | Est          | t              | LS.                | 30,000.00                 | 30,000                                         | 12,000                                      | <u> </u>              |                        |                          | 42,000                         |             |
|              | Transfer conveyor on top of silos, 35" wide, 50 ft<br>Modification on top of the silo |                                       | Est.         |                | LS                 | 100,000.00                | 100,000                                        | 40,000                                      |                       |                        |                          | 140,000<br>70,000              |             |
|              | Foundation work for conveyora                                                         |                                       | Est          | <u>1</u>       | LS                 | 50,000.00                 | 50,000                                         | 20,000 24,000                               |                       |                        |                          | 70,000                         |             |
|              | Dust suppression for belt conveyors                                                   |                                       | Est          | 1              | LS                 | 200,000.00                | 200,000                                        | 80,000                                      |                       |                        |                          | 54,000 280,000                 |             |
|              | Fire protection for conveyors<br>HVAC for dumper pit and transfer house               |                                       | Est          | 1              |                    | 75,000.00                 | 75,000                                         | 75,000                                      |                       |                        |                          | 150,000                        |             |
|              | Sump pump system                                                                      |                                       | <u>Est</u>   | 1              | 1 <u>\$</u><br>15  | 200,000.00                | 200,000                                        | 80,000                                      |                       |                        |                          | 280,000                        |             |
|              | Hoists and trolleys                                                                   |                                       | Est          | 1              | LS                 | 50,000.00                 | 50,000<br>50,000                               | 20,000                                      |                       |                        |                          | 70,000                         | 4           |
| {            | Loeder / dozer                                                                        | 6000 LF                               | Est          | 1              | LS                 | 800,000.00                | 800,000                                        | 800,000                                     |                       |                        |                          | 1,600,000                      | <u> </u>    |
|              | Temporary Coffer Dam                                                                  | · · · · · · · · · · · · · · · · · · · | Est<br>Est   | 1              |                    | 750,000.00                | 750,000                                        | 0                                           |                       |                        |                          | 750,000                        |             |
|              | Dewatering                                                                            | <u> </u>                              | Est          |                |                    | 500,000.00                | 500,000                                        | 1,042,000                                   |                       |                        |                          | 1,542,000                      |             |
|              |                                                                                       |                                       |              |                |                    | 2,440.00                  |                                                | 230,000                                     |                       |                        |                          | 238,000                        |             |
|              | Electrical - Aux. Power - 13.8 KV<br>Vacuum Circuit Breaker and Cubicles              |                                       |              |                |                    |                           |                                                |                                             |                       |                        |                          |                                | 1,          |
|              | 480 V Transformer                                                                     | Industes Switchgear                   | Est<br>Est   |                |                    | 25,000.00                 | 50,000                                         | 3,000                                       |                       |                        |                          | 53,000                         |             |

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|              | IT: 20-2                                                         |                                              |                            |             |                    |                                       | Tampa Electi                                  | ic                                          |                       |                  | Estimate No.     | XXXXX                    |               |
|--------------|------------------------------------------------------------------|----------------------------------------------|----------------------------|-------------|--------------------|---------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------|------------------|------------------|--------------------------|---------------|
|              | Lundy <sup>LLC</sup>                                             |                                              |                            |             |                    |                                       | Polk Station                                  | }                                           | 1                     |                  | Project No.      | 09478-819                |               |
| Chk          | tago                                                             |                                              |                            |             |                    |                                       | Rail Deliver                                  | v                                           |                       |                  | Date             | 1/5/03                   |               |
|              |                                                                  | Cost Type:                                   |                            |             |                    | On                                    | der of Magni                                  | tuđe                                        | 1                     |                  | <u> </u>         | DRAFT                    |               |
|              |                                                                  | Ent-Estimated                                |                            | 1.          | 1                  |                                       |                                               | NFIDENTIAL                                  | t                     |                  | f                | 1                        |               |
|              |                                                                  | 0-014                                        |                            | 1           | 1                  |                                       | 1                                             | I                                           |                       |                  | Run Date:        | 10/5/03                  |               |
|              |                                                                  | OPB-Other Project Bid                        |                            |             |                    |                                       |                                               |                                             |                       |                  |                  | GRA/EM                   |               |
|              |                                                                  | Q-Vender Quela                               |                            | 1           |                    |                                       | 1                                             |                                             |                       |                  | Reviewer         |                          |               |
|              |                                                                  |                                              |                            |             |                    |                                       |                                               |                                             |                       |                  |                  |                          |               |
| Acct.<br>No. | Description                                                      | Scote Definition                             | <u>Cost</u><br><u>Type</u> | Quantity    | Unit of<br>Measure | Unit Equip / Mat.<br>Cost             | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub:<br>Contract<br>E | DOR<br>(Furnish) | DOR<br>(Install) | Total.<br>Projected Cost | <u>Sub-To</u> |
|              | MCC                                                              | 480 V (50 Metors)                            | Est                        | 1           | EA                 | 40,000.00                             | 160,000                                       | 42,000                                      |                       |                  |                  | 202,000                  |               |
|              | Trays                                                            | Trays (Transformer Feed)                     | Est                        | 2,000       | LF                 | 30.00                                 | 60,000                                        | 58,000                                      |                       |                  | I                | 110 000                  |               |
|              | Conduits                                                         | Conduits (500 LF typ per mator feed)         | Est                        | 25.000      | 1).F               |                                       |                                               |                                             |                       |                  |                  | 118,000                  | <u></u>       |
|              |                                                                  |                                              |                            |             |                    | 3.00                                  |                                               |                                             |                       |                  |                  | 291,000                  | <u> </u>      |
|              | Transformer Feeder Cable                                         | MV-40<br>MC #2 - 500 LF per molor            | Est<br>Est                 | 2,000       |                    | 8.00                                  |                                               |                                             |                       |                  |                  | 56,000                   |               |
|              | (1) 4 7 7 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                    | PACAT + SPA PL, DR DEPEL                     | <u></u>                    | - <u></u> - | 1×                 | 5.00                                  | 125,000                                       | 396,000                                     |                       |                  |                  | \$23,000                 |               |
| ·            | Electrical Building - Pre Fabricated - Complete                  | Includes foundations                         | Est                        | 1           | <u>LS</u>          | 110,000.00                            | 110,000                                       | 22,000                                      |                       |                  |                  | 132,000                  | <u> </u>      |
|              | Conveyor Lighting                                                | 1500 LF                                      | Est                        | 1           | LS                 | 21,000.00                             | 21,000                                        | 24,000                                      |                       |                  |                  | 45,000                   |               |
|              | Control & Instrumentation                                        | · · · · · · · · · · · · · · · · · · ·        |                            |             |                    | · · · · · · · · · · · · · · · · · · · |                                               |                                             |                       |                  |                  |                          | 40            |
| · · · · ·    | OCS Upgrages                                                     | 6 VO's per Motor                             | Est                        |             | LS                 | 175,000.00                            | 175,000                                       | 175,000                                     |                       |                  |                  | 350.000                  |               |
|              | DCS BOP Equipment                                                |                                              | Ext                        |             | LS                 | 25,000.00                             |                                               | 25,000                                      |                       |                  |                  | 50,000                   |               |
|              | Locally Mounted Instruments                                      |                                              | Esi                        |             | <u>LS</u>          | 1,500.00                              | 2,000                                         | 4,000                                       |                       |                  |                  | 6,000                    |               |
| *            | BOP Items                                                        |                                              | ·                          |             |                    |                                       |                                               | ·                                           |                       |                  |                  |                          | 1,25          |
|              | Fire Protection Upgrade                                          | 500 UF                                       | Est                        | ·           | LS                 | 47,500.00                             | 48,000                                        | 42.000                                      |                       |                  |                  |                          |               |
|              | Stomwater/Cost Runoff Grading Upgrades                           | 1500 LF                                      | Est                        | ····-       | LS                 | 1,000,00                              | 1.000                                         | 6,000                                       |                       |                  |                  | 90,000                   |               |
|              | Relocation of Wellands                                           | 43 Agres                                     | Est                        | 1           | LS                 | 215,000.00                            | 215,000                                       | 703.000                                     |                       |                  |                  | 918,000                  |               |
|              | Underground Utility identification and Relocation                | Tampa - Allowence                            | Eşt                        | \$          | LS                 | 12,500.00                             | 13,000                                        | 12,000                                      | · · · ·               |                  |                  | 25,000                   |               |
|              | General Services Interconnection (water & air, etc.)             | Altowence                                    | Est                        | 1           | LS .               | 25,000.00                             | 25,000                                        | 25,000                                      |                       |                  |                  | 50,000                   |               |
|              | Adjustment for FL Building Code                                  |                                              |                            | ┟┈┈╌╍       |                    |                                       |                                               |                                             |                       |                  |                  | L                        |               |
|              | Steel @ 7%                                                       | Apples to Estimated Steel Cost               | Êst                        | 1           | LS                 |                                       | 0                                             | 86,170                                      |                       |                  |                  | 86,170                   |               |
|              | Concrete @ 10%                                                   | Applies to Estimated Concrete Cost           | Eat                        | 1           | 1.5                | ·                                     | 0                                             | 73,860                                      |                       |                  |                  | 73,860                   | ž             |
|              | Sub-Total                                                        |                                              |                            |             |                    | · · · · · · · · · · · · · · · · · · · | 8,078,000                                     | 7,000,030                                   |                       | •                |                  | 15,078,030               |               |
|              | Other Costs/Adjustments                                          |                                              |                            |             |                    |                                       |                                               |                                             |                       |                  |                  |                          | 1,050         |
|              | Contractor's General & Administrative Costa                      | Based 5% of Equip, Material,<br>and Labor    |                            |             |                    |                                       |                                               | 350,000                                     |                       |                  |                  | 350,000                  |               |
|              | Contractor's Profit                                              | Based 10% of Equip, /<br>Meterial, and Labor |                            |             |                    |                                       |                                               |                                             |                       |                  |                  |                          |               |
|              | DJECTENORBON FOOMale Direct Bullen Damp 1500, Ja. JacCBXT Estima | ·                                            | l                          | J           |                    |                                       |                                               | 700,000                                     |                       |                  |                  | 700,000                  |               |

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IAMFA ELECTRIC COMPANY DOCKET NO. 03103-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 82 OF 107

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|              | IT: 2D-2                                           |                                                |                       |                      | 1                  |                                       | ampa Electr                                   | ic                                          | 1                | -                | Entimate No.:     | inon in                                                                                                          |                |
|--------------|----------------------------------------------------|------------------------------------------------|-----------------------|----------------------|--------------------|---------------------------------------|-----------------------------------------------|---------------------------------------------|------------------|------------------|-------------------|------------------------------------------------------------------------------------------------------------------|----------------|
| Sangeni      | t & Lundy <sup>LLC</sup>                           |                                                |                       | 1                    | ·                  |                                       | Polk Station                                  |                                             | <u> </u>         |                  | Project No.       | and the second second second second second second second second second second second second second second second |                |
| Chic         | ago                                                |                                                |                       |                      |                    | 1                                     | Rail Deliver                                  |                                             | +                |                  |                   | 9/5/93                                                                                                           |                |
|              |                                                    | Cest Type:                                     | 1                     | 1                    |                    |                                       | der of Magni                                  |                                             | <u> </u>         |                  |                   | DRAFT                                                                                                            | <u> </u>       |
|              |                                                    | Est-Estimated                                  | 1                     |                      | 1.                 | -PRELIMINA                            | RY AND CO                                     | NFIDENTIAL-                                 |                  |                  |                   |                                                                                                                  |                |
|              |                                                    | 8-0id                                          |                       |                      | · · · ·            |                                       | 1                                             | 1                                           |                  |                  | Run Date:         | 0/2111                                                                                                           | <del>.</del>   |
|              |                                                    | OPB-Other Project Bid                          |                       |                      |                    | <u> </u>                              | 1                                             | ·                                           | <b></b>          | · ···-           | Preparet          |                                                                                                                  |                |
|              |                                                    | Q=Vender Quete                                 |                       | f                    | 1                  |                                       | 1                                             |                                             | f                |                  | Reviewer:         |                                                                                                                  |                |
|              |                                                    |                                                |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   |                                                                                                                  |                |
| Acct.<br>No. | Description                                        | Scope Definition                               | • <u>Cost</u><br>Type | Quantity             | Unit of<br>Measure | Unit Equip / Mat.<br>Soat             | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract | DOR.<br>(Fumish) | DOR.<br>finstall) | <u>Total.</u><br>Projected Cost                                                                                  | <u>Sub-Tot</u> |
|              | Total Equipment, Material and Labor<br>Costs       |                                                |                       |                      |                    |                                       | 8,078,000                                     | 8,050,030                                   |                  |                  |                   | 16,128,030                                                                                                       | 16,12          |
|              |                                                    |                                                |                       |                      |                    |                                       |                                               | -1,                                         |                  |                  |                   | .0,120,030                                                                                                       | 10,12          |
|              | Freinke Duding Taura Ita                           |                                                |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   |                                                                                                                  |                |
|              | Freight, Duties, Taxes, Etc.                       | · · · · · · · · · · · · · · · · · · ·          | ļ                     |                      |                    |                                       |                                               |                                             |                  |                  |                   |                                                                                                                  | ÷              |
|              | Freight-ExWorks To Site                            | Included in Meterial &<br>Equipment Costs      |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | Included in<br>Material &<br>Equipment                                                                           |                |
|              | Taxes - Sales/Upp//AT/Business/Etc.                | Not Included                                   |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | Costs<br>Not Included                                                                                            |                |
|              | Total Direct Project Costs                         |                                                |                       |                      |                    |                                       | 8,078,000                                     | 8,050,030                                   |                  |                  |                   | 16,128,030                                                                                                       | 16,12          |
|              | Indirect Costs                                     |                                                |                       |                      |                    |                                       |                                               | ···                                         |                  | -/               |                   |                                                                                                                  | 1,83           |
|              | Insurance<br>Builders Risk                         |                                                |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   |                                                                                                                  |                |
|              | Engineering/Procurement                            |                                                | ·····                 | · <del>-</del> · · · |                    |                                       |                                               |                                             |                  |                  |                   | Not included                                                                                                     |                |
|              | Tampa Electric Interface with A/E                  | Project Mgmot, Eng and<br>Construction Support |                       | · · · · ·            |                    |                                       |                                               |                                             |                  |                  |                   | 1,128,962                                                                                                        |                |
|              | Tampa Electric Management of EPC Contractor        | Two men for 2 yrs @ \$75K.                     |                       |                      |                    | ····                                  |                                               | *                                           |                  |                  | ·                 | 300,000                                                                                                          |                |
|              | Permits and Fees                                   | Temps                                          |                       |                      |                    | · · · · · · · · · · · · · · · · · · · |                                               |                                             |                  |                  |                   | 293.000                                                                                                          |                |
| <u> </u>     | Total Indirect Project Costs                       |                                                |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | ~~~~~~                                                                                                           |                |
|              |                                                    |                                                |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | 1,834,858                                                                                                        |                |
|              | Escalation                                         | Not included                                   |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | Not Included                                                                                                     |                |
|              | EPC Costs                                          |                                                |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | 2 2 4 8 4 9 4                                                                                                    |                |
|              | General & Administrative (G&A) @ 5% of Dirot Costs |                                                |                       |                      |                    |                                       |                                               |                                             | ——-              |                  |                   | 2,346,628                                                                                                        | 2,346          |
|              | Efficecy Insurance @ .8% of Direct Costs           | Orall and Man a Office                         |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | 129,024                                                                                                          |                |
|              |                                                    | Prolit and Home Office<br>Overhead             |                       |                      |                    |                                       |                                               |                                             |                  |                  |                   | 1,290,242                                                                                                        |                |
|              | Performance Bond @ .75% of Direct Costs            |                                                |                       |                      |                    |                                       |                                               | ·                                           |                  |                  |                   |                                                                                                                  |                |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 83 OF 107

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| EYHAR        | T: 2D-2                              | Т                     | T            | 1        |                    | 1                                       | ampa Electri                                  | ic                                          |                       | E                | stimute No.;     | XXXXX                                                                                                          |                  |
|--------------|--------------------------------------|-----------------------|--------------|----------|--------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------|------------------|------------------|----------------------------------------------------------------------------------------------------------------|------------------|
| Server d     | & Lundy LC                           |                       | -            |          |                    |                                         | Polk Station                                  |                                             |                       |                  | Project Ho.:     |                                                                                                                |                  |
| Chic         |                                      |                       |              |          |                    |                                         | Rail Delivery                                 | ·                                           |                       |                  | Dete:            | \$/6/03                                                                                                        |                  |
|              |                                      | Cent Type:            | 1            |          |                    | Ore                                     | ier of Magnit                                 | ude                                         |                       |                  |                  | DRAFT                                                                                                          |                  |
|              | -                                    | Ent-Entimeted         |              |          |                    | -PRELIMINA                              | RY AND COL                                    | NFIDENTIAL-                                 |                       |                  |                  |                                                                                                                |                  |
|              |                                      | a-414                 |              | · ·      |                    |                                         |                                               | ·                                           |                       |                  | Run Date:        | the second second second second second second second second second second second second second second second s |                  |
|              |                                      | OPS-Other Project Sid |              |          |                    |                                         |                                               |                                             |                       |                  | Preperer:        | Ge Brank                                                                                                       |                  |
|              |                                      | Q-Vendor Quete        |              |          |                    |                                         |                                               |                                             |                       |                  | Reviewer:        |                                                                                                                | L.               |
|              |                                      |                       |              |          |                    |                                         |                                               |                                             |                       |                  |                  |                                                                                                                |                  |
| Acct.<br>No. | Description                          | Scope Definition      | Cost<br>Lype | Quantity | Unit of<br>Measure | <u>Unit Equip / Mat.</u><br><u>Cost</u> | <u>Total</u><br>Equipment or<br>Material Cost | Total<br>Construction<br>& Erection<br>Cost | Sub-<br>Contract<br>E | DOR.<br>(Famish) | DOR<br>(Instali) | Total<br>Prolected Cost                                                                                        | <u>Bub-Totab</u> |
|              | Contingency                          |                       |              |          |                    |                                         |                                               |                                             |                       |                  |                  |                                                                                                                | 4,061,           |
|              | Contingency                          | 20% of overall cost   |              |          | L                  |                                         |                                               |                                             |                       |                  |                  | 4,061,903                                                                                                      |                  |
|              | Interest During Construction (AFUDC) | Not Included          | <u> </u>     | <u> </u> |                    |                                         |                                               |                                             |                       | `                |                  | Not Included                                                                                                   |                  |
|              |                                      |                       | ·            | 1        | 1                  | 1                                       | t                                             |                                             |                       | 1                | 1                | 24,371,420                                                                                                     | 24,371,          |

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 84 OF 107

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

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#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 4, 2003

#### **EXHIBIT 2D-3**

#### POLK DIRECT DELIVERY

#### CSXT ESTIMATE

| Band In Strategy                           |                   |
|--------------------------------------------|-------------------|
| Item                                       | Cost              |
| Scenario #1 Rotary Dump at Plant           |                   |
| Loop Track                                 | \$1,102,000       |
| Rotary Dunner With Convey to No 200 pr.    | 6 1800.000 TT T   |
| New 15,000 Ton Dome                        | <b>51</b> 600.000 |
| Total                                      | \$6,502,000       |
|                                            |                   |
| Scenario #2 Bottom Dump avelant            |                   |
| Loop Track                                 | \$1,102,000       |
| Bottom Dump with Conveyor to Silo 1500 tph | , · · · ·         |
| - • • • • • • • • • • • • • • • • • • •    | \$1,818,000       |
| New 15,000 Ton Dome                        | \$1,600,000       |
| Total                                      | \$4,520,000       |

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EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 85 OF 107

#### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

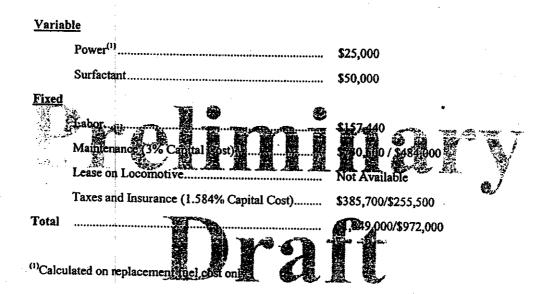
Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery



SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2D-4

#### OPERATING COST ESTIMATE FOR POLK DIRECT RAIL DELIVERY



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### TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST, FOR PRODUCTION OF DOCUMENTS

#### **SARGENT & LUNDY, LLC** 55 East Monroe St

Chicago, IL 60603

## FAX COVER SHEET

| Date:    | September 5, 2003 | Project No.: |              |
|----------|-------------------|--------------|--------------|
| To:      | Ralph Painter     | Fax No.:     | 813-641-5281 |
| Company: |                   | Phone No.:   | 813-641-5224 |
| From:    | Kathy Corgan      | Phone No.:   | 312-269-3905 |
| Re:      |                   |              |              |
| CC:      | Report            |              |              |
|          |                   |              |              |

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> EXHIBIT NO. JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 87 OF 107

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST FOR PRODUCTION OR DOCUMENTS



# Tampa Electric Company Big Benn and Polk Generating Station

CSX Transportation Alternate Method of Conl Delivery

September 4, 2003

08160

Prepared By:

P. Guletsky, S. Madan, G. Bowater

Reviewed By:

<u>P. Guletsky</u>

Approved By:

B. H. Yee

EXHIBIT NO. (JBS-10) JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 88 OF 107

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#### Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Goal Delivery

#### DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST +312-269-7430 FOR PRODUCTION OF DOCUMENTS

SL-008160 Project No. 09476-019 September 4, 2003

#### Executive Summary

Sargent & Lundy L.L.C. has reviewed the proposal issued to Tampa Electric by CSX Transportation for alternate method of coal delivery to the Big Bend and Polk Generating Stations. The proposal, dated August 11, 2003, offers conceptual design and cost information to bring coal to the stations by rail direct rather than by the traditional barge transport.

The purpose of the S&L review is to validate the capital cost for each option proposed, to provide operating cost estimates for each, and to provide assessment of assumptions made which qualify the bid. The Tampa Electric Fuels Strategy Group will use the results of the S&L analysis to evaluate this option against the other coal transportation bidg recaived. +0

Although CSXT has done are additionable in the configuration of the second provided where are additionable in its configuration. Where possible, we have many the necessary adjustments where are another and the second provided to sts for the adjusted plan. Specific examples include:

- The limestone unloading facility at Big Bend will not be used for unloading coal by rail. Contamination of the limestone with coal would present several process obstacles with the EQDS and gypsum byproduct.
- New track micementante sting facilities in some areas. The track cessary for a commodate existing operations. has been refe i Ére
- The conveyor belt sizing for the 2-5.5 MM ton Big Bend Option is marginal. The estimate provided increases the belt width to 60 inches. A 60-inch conveyor is appropriate for the duty rating expected.

Each case is discussed more fully in the following section of the report.

The cost information provided with the proposal appears to be low in all cases. The costs provided appear to include material for new equipment only. Therefore, the installation cost and costs associated with modification to existing facilities need to be added. The capital cost estimate comparison for each scenario is as follows:

|                                        | CSXT Estimate | S&L Estimate |
|----------------------------------------|---------------|--------------|
| Big Bend 2 to 5.5 Million Ton Build In | \$ 10,846,000 | \$41,294,000 |
| Big Bend 1 to 2 Million Ton Build In   | \$6,798,000   | \$30,497,000 |
| Polk Build In Shuttle Train Unload     | \$ 2,318,000  | \$15,418,000 |
| Polk Direct Delivery - Rotary Dump     | \$ 6,502,000  | \$36,434,000 |
| Polk Direct Delivery - Bottom Dump     | \$ 4,520,000  | \$24,371,000 |

(JBS-10)EXHIBIT NO. JOHN B. STAMBERG - CSXT DOCKET NO. 031033-EI PAGE 89 OF 107

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

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SL-008160 Project No. 09476-019 September 4, 2003

The estimates provided in the rail delivery bids do not take into account the additional operating costs required at each station. Fixed operating cost increases will be required for most of the options included in the bid package because of the additional operating staff that will be required to manage the coal unloading and storage. Variable operating costs will also increase at each station as a result of the additional equipment. Increased electrical load and equipment maintenance costs make up the majority of the variable operating cost estimate.

|                                        | Yearly Estimated<br>Operating Cost |
|----------------------------------------|------------------------------------|
| Big Bend 2 to 5.5 Million Ton Build In | \$2.2MM to \$2.7MM                 |
| Big Bend 1 to 2 Million Ton Build In   | * \$1.4MM to \$1.5 MM              |
| Polk Build In Shuitle Dain Unload      | SI 1 MM                            |
| Folk Direct Del Cry Romry Damp         | 3 MM 5                             |
| Bolk Direct Delivery Borom Dumple      | ST97 50/ 3                         |

The proposal options offered by CSXT have identified the demurage rate assumed in each case. In some instances, we believe that the rates provided are more aggressive than can be reasonably inhieved. These discrepancies can either be used as a point of negotiation or as approbable could of Tampa Section. We have not included demurage fees in the operating comparing but rating provide the data for your use and evaluation during your contractine gotine on a supervision of the data for your use and

|                                        | Demurrage<br>Allowed in Bid | Estimated Unload<br><u>Time Required</u> |
|----------------------------------------|-----------------------------|------------------------------------------|
| Big Bend 2 to 5.5 Million Ton Build In | 4 hour                      | 6 hour                                   |
| Big Bend 1 to 2 Million Ton Build In   | 24 hour                     | 9 hour                                   |
| Polk Build In Shuttle Train Unload     | (Sam)                       | (Sam)                                    |
| Polk Direct Delivery - Rotary Dump     | (Sam)                       | (Sam)                                    |
| Polk Direct Delivery - Bottom Dump     | (Sam)                       | (Sam)                                    |

Environmental considerations that need to be addressed in the full evaluation of these coal transportation options include wetlands reconstruction, coal pile runoff, and noise abatement. These issues are discussed later in this report.

11.

#### <u>Bid Analysis</u>

A. Big Bend 2 to 5.5 Million Ton Build In

The conceptual design that is proposed for this option requires three alterations:

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TAMPA ELECTRIC COMPANY DOCKET NO. 031033-EI P CSXT'S SIXTH REQUEST FOR PRODUCTION OF DOCUMENTS

Sargent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

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The use of the limestone unloading facility for coal unloading is not desirable. 1. Although introducing small amounts of limestone to the coal supply is not a particular problem, introducing small amounts of coal to the limestone supply is indeed a problem. Coal introduced through the FGD system will adversely effect its process design. First, the coal will contaminate the gypsum byproduct that is currently being sold for wallboard manufacture. Second, the coal will contaminate the water reclaimed from the FGD system and will therefore concentrate in the process loop. This will increase the suspended solids in the reclaim water, which is used for mist eliminator washing. Higher suspended solids can result in plugging of the wash nozzles, headers and piping, and in erosion of the mist eliminator vanes. For these reasons, it is not common practice to share unloading of coal with limestone supplies for FGD. The estimate provided heigh induded provisions to fistall a new separate coal unloading station due west of the existing limestons unloading station and directly south of the existing RGD 1 1

2. The 45 car rail sput identified in the proposal for use at the new railcar load-out which transfers coal to be sent to the Polk Station is located within the boundaries of the existing desalinization plant which is owned and operated by Others. It is suggested that this rail spur be moved to the south side of the rail loading facility. This change has been inconstructed into the estimate. It represents a minor was impact.

3. CSXT proposal included a "wide between vorsion unloading. The 54" wide conveyors whald have to operate acc thirly ingh belt speed (~ 700 fpm) for handling the required capacity. At this high belt speed, we would expect a high potential of coal spillage and dusting problems; therefore, we would recommend 60" wide conveyor bolts for the new train unloading belts. The 60" wide conveyors would require a slower (580 gpm) belt speed for handling the required tonnage.

The capital cost estimate that is provided with this option appears to be quite low. As illustrated in the executive summary, we would expect the installed cost for this scope of work to be more than double the proposed amount. Although the basis of the estimate is not identified specifically, it would appear that the estimate provided by CSXT in the proposal represents the capital cost for the engineered equipment for coal transport only. Exhibits 2A-1 and 2A-2 are the respective CSXT and S&L cost estimates for Big Bend 2-5.5 MM Ton Rail Coal delivery option.

S&L has assumed that hooded conveyors will be acceptable and permitable for the new conveyors except the transfer conveyor that travels over the intake canal. The transfer conveyor is totally enclosed from the blending bin to the proposed transfer tower. Should environmental permitting require all of the conveyor to be totally enclosed, then the increase to the capital estimate will be approximately \$2,000,000.

In addition to the new equipment and installation costs, S&L has included costs for the following support tasks required to complete the scope work:

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#### DOCKET NO. 631033-EI CSXT'S SIXTH REQUEST FOR FRODUCTION OF DOCUMENTS

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

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SL-008160 Project No. 09476-019 September 4, 2003

#### C. Polk Build In Shuttle Train Unload

This design option provided in the CSXT proposal for the Polk Plant is the least expensive and the least intrusive to the current plant operations.

The independent, estimated total installed cost for this option is \$15,418,000 which is over six times higher than the capital cost identified in the CSXT proposal. Exhibit 2C-1 and Exhibit 2C-2 provide the details of the CSXT and S&L capital estimates respectively.

In addition to the new equipment and installation costs, S&L has included, in the independent estimate, costs for the following support tasks required to complete the scope of work.

- Linderground Reclaim Hoppe
   Buildozer
- Fire Loop Extension
- Dust Suppression

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- Repair to Existing On-Site Track
- Modifications to Existing Coal Silo
- Grading for Stormwater/Goal Runoffra
- Underground Utility glenutication and Reloonion
- Wetlands Relocation
- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustments for the High Water Table.
- Transformers
- Double End Bus Substation
- I/O Blocks
- Electrical Interconnect
- DCS Interconnect
- Services Interconnect
- Environmental Permitting
- Contractor G&A and Fee
- Tampa Electric Overheads

Operating cost considerations to be included in the overall bid evaluation of this option are tabulated in Exhibit 2C-3. The combined fixed and variable operating costs for this option are \$1,130,000 per year.

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DOCKET NO. 031033-EI CSXT'S SIXTH REQUEST I FOR PROBUCTION OF DOCUMENTS

Sergent & Lundy

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

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SL-008160 Project No. 09476-019 September 4, 2003

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D. Polk Direct Delivery - Rotary Dump and Bottom Dump Scenarios

The conceptual design of this option proposed by CSXT introduces coal storage to the Polk station. The domed storage facility minimizes the environmental impact to the station. The loop track provides sufficient storage to prevent obstruction of other plant operations.

The proposal provided by CSXT includes two scenarios for this option. The first uses a rotary car dumper; the second is similar but uses a bottom dump rail car. We have included a car shaker with the bottom dump rail car estimate. The independent estimates prepared for this option are included as Exhibit 2D-1 and Exhibit 2D-2. The CSXT proposal estimate, again lower than the estimated installed costs prepared by S&L, is provided as Exhibit 2D-3.

Items included in the inflependent totabinstalled cont, in addition to the new

- Underground Reclaim Hopper
- Bulldozer
- Fire Loop Extension
- Dust Suppression
- Repair to Existing On Site Frack ()
  - Modifications to Existing Coal Silo
  - Grading, Stormwater/Coal Runoff Modification

Underground Utility Identification and Relocation

- Conveyor Lighting
- Adjustment for FL Building Code
- Adjustment for High Water Table
- Transformers
- Double End Bus Substation
- I/O Blocks

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Electrical Interconnect

DCS Interconnect

- Services Interconnect
- Environmental Permitting
- Wetland Relocation
- Contractor G&A and Fee
- Tampa Electric Overheads

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DOCKET NO. 031033-EI CSXT-SSIXTH REQUEST 32 FOR PRODUCTION OF DOCUMENTS

SL-008160 Project No. 09476-019 September 4, 2003

Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

#### V. <u>References</u>

- 1) CSX Transportation July 30, 2003 Proposal
- 2) CSX Transportation August 11, 2003 Proposal
- 3) TECO Memorandum, August 29, 2003, D. Konstas
- 4) TECO Email (Painter), Electrical Input, 9/2/03
- 5) TECO Email (Alfonso), I&C Inputs, 9/2/03

- 6) TECO Email (Barrette), Reference Drawings, 9/2/03
- 7) TECO Email (Painter), Big Bend/Unloading Labor, 9/3/03
- 8) TECO Email (Painter), Revised Capital Cost Factors, 9/3/03
- 9) TECO Email (Painter), Polk/Coal Unloading Labor, 9/3/03
- 10) TECO Email (Rainter), Insurance and TaxaRates, 9/2/03

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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2A-1

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#### **BIG BEND CAPITAL COST 2 - 5.5 MM TONS**

#### CSXT COST ESTIMATE

Big Bend 2 - 5,5 mm TPY Option (Rapid Discharge Cars)

System Rated at 2500 TPH

| Rapid Discharge System         | \$1,600,000             |
|--------------------------------|-------------------------|
| Long Conveyor 3300 ft          | \$3,100,000             |
| Short Conveyor 300 4           | \$656,000- ¥<br>230,600 |
| Three 45 Car Tracks            | \$1,200,000             |
| Truck Dump and Conveyor        | \$350,000               |
| Total                          | \$7,130,000             |
| Conveyors and Transfer Station | \$2,250,000             |
| 250 Ton Batch Silo             | \$1,066,000             |
| New 45 Car Track               | \$400,000               |
| Total                          | \$3,716,000             |
| Grand Total                    | \$10,846,000            |

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SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2A-2

#### S&L COST ESTIMATE FOR BIG BEND 2 - 5.5 MM TON RAIL COAL DELIVERY OPTION

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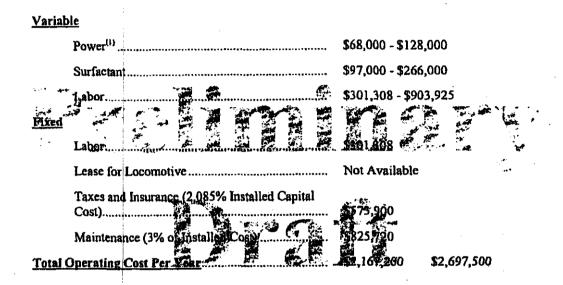
#### EXHIBIT 2A-3

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#### OPERATING COST ESTIMATE FOR 2 - 5.5 MILLION TON RAIL DELIVERY OF COAL BIG BEND STATION



<sup>(1)</sup>Calculated on replacement fuel cost only.

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SL-008160 Project No. 09476-019 September 4, 2003

#### **EXHIBIT 2B-1**

#### **BIG BEND CAPITAL COST 1-2 MM TON**

#### CSXT ESTIMATE

#### Big Bend 1 - 2 MM TPY Option (Standard Coal Hoppers)

| System Rated at 1   | 500 TPI  | Ħ               |           |               |            |                              |                                       |            |                  |         |
|---------------------|----------|-----------------|-----------|---------------|------------|------------------------------|---------------------------------------|------------|------------------|---------|
| Modify Limestone    | Pit      | • • • • • • • • |           |               |            |                              |                                       |            | \$250,000        |         |
| Long Conveyor       | ******** |                 |           | ******        |            |                              | •••••                                 |            | \$1,953,000      |         |
| Transfer Station    |          | -               | <u></u>   | Y.            |            | 1                            |                                       |            | \$\$230,000-     | ·<br>1· |
| Short Conveyor      | ····     |                 | ्य        |               |            | 4                            |                                       |            | <b>\$280,000</b> | Ċ.      |
| Three 45 Car Track  | ¢s       |                 |           |               |            | •••••                        |                                       |            | \$1,200,000      | ۵,      |
| 200' Radial Stacker |          |                 | ••••••••• | ••••••        | •••••••••• |                              |                                       |            | \$250,000        | :       |
| Truck Dump and C    | onveyor  | 83.<br>Muji     | ····· 439 | in the second |            | )<br>المحسن ال               | i i i i i i i i i i i i i i i i i i i | <b>L</b> - | \$350,000        |         |
| Total               |          |                 |           | 94<br>        |            | ф.<br>ф.                     |                                       |            | \$4,513,000      |         |
|                     |          |                 | #         |               | ÷          | an p<br>La chuirte ann an t- | A 64.                                 | £          |                  |         |

#### Equipment to Load Shuttle Trains

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| Reclaim Hopper with Feed to Batch Silo | \$469,000    |
|----------------------------------------|--------------|
| 250 Ton Batch Silo                     | \$1,066,000  |
| Loader/Dozer                           | \$750,000    |
| Total                                  | \$2,285,000  |
|                                        |              |
| Grand Total                            | \$10,846,000 |

| EXHIBIT NO.       | (JBS-10) |
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SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2B-2

#### BIG BEND 1 TO 2 MILLION TON BUILD IN

#### S&L INDEPENDENT ESTIMATE

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| Alternate Method | of Coal Delivery      |
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#### **EXHIBIT 2B-3**

#### **BIG BEND 1 TO 2 MILLION TON BUILD IN**

#### **OPERATING COST CONSIDERATIONS**

#### <u>Variable</u> Power....

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|              | Power             | •••••••••  |                      | •••••          |        |          |              | \$34,0 | 00 - 1 | \$68,000          |             |
|--------------|-------------------|------------|----------------------|----------------|--------|----------|--------------|--------|--------|-------------------|-------------|
|              | Surfactar         | .t         |                      | <sub>0</sub> 4 |        |          | ·            | \$50,0 | 00 - 1 | \$97,000          |             |
|              | Labor             |            | - 10<br>- 10<br>- 10 |                | ·      |          | Ŷ            | \$301  | 308    |                   |             |
| Fixed        | لاتي <sub>ت</sub> |            |                      |                |        |          | с.<br>С      | 19<br> |        | Stranger Stranger | 24-1<br>- 1 |
|              | Lease for         | Locomot    | ive                  |                | •••••  |          |              | Not A  | Avail  | able              |             |
|              | Taxes an          | d Insuranc | e (2.085             | % of Ca        | pital) |          |              | \$420  | ,400   |                   |             |
|              | Mainten           | ince (3% o | Capita               | D              | (R.)   | 6        | <u>е</u> п а | \$605  | 000    |                   |             |
| <u>Total</u> |                   |            | 5                    |                |        |          | 7            | 49     | 9,00   | 0                 |             |
|              |                   |            | وتسعدنا فلي          | 1              |        | استعانيا | <u>.</u>     | ËA_    | ÷.     |                   |             |

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SL-008160 Project No. 09476-019 September 4, 2003

#### EXHIBIT 2C-1

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#### TECO BID POLK CAPITAL COSTS

#### CSXT ESTIMATE

# Shuttle Train Unload System Bottom Dump with Conveyor to Silos 1500 TPH \$1,818,000 2500' of Track at \$200 foot \$500,000 Total \$2,318,000

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#### EXHIBIT 2C-2

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#### POLK BUILD IN SHUTTLE TRAIN UNLOAD

#### S&L CAPITAL ESTIMATES





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#### **EXHIBIT 2C-3**

#### **OPERATING COST ESTIMATE FOR** POLK BUILD IN SHUTTLE DELIVERY

| <u>Varial</u> | <u>Dle</u>                             |               |  |  |  |
|---------------|----------------------------------------|---------------|--|--|--|
|               | Power <sup>(1)</sup>                   | \$20,000      |  |  |  |
|               | Chemical for Dust Control              | \$50,000      |  |  |  |
| <u>Fixed</u>  | Labor                                  | \$601,088     |  |  |  |
|               | Maintenance (3% Capital Cost)          | \$300,700     |  |  |  |
|               | Lease on Locomotive                    | Not Available |  |  |  |
|               | Taxes and Insurances 58% Capital Cost) | \$158,400     |  |  |  |
| Total (       | Dperating Cost Per Year,               | \$1,130,000   |  |  |  |
|               |                                        |               |  |  |  |

<sup>(1)</sup>Calculated on replacement fuel cost only.

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#### EXHIBIT 2D-1

#### POLK DIRECT DELIVERY - ROTARY DUMP SCENARIOS

#### INDEPENDENT ESTIMATES

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#### EXHIBIT 2D-2

#### **POLK DIRECT DELIVERY - BOTTOM DUMP SCENARIOS**

#### INDEPENDENT ESTIMATES





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Tampa Electric Company Big Bend and Polk Generating Stations CSX Transportation Alternate Method of Coal Delivery

#### **EXHIBIT 2D-3**

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#### POLK DIRECT DELIVERY

#### CSXT ESTIMATE

| Bund In Strategy                            | •               |
|---------------------------------------------|-----------------|
| ltem                                        | Cost            |
| Scenario #1 Rotary Dump at Plant            |                 |
| Loop Track                                  | \$1,102,000     |
| Rolary Dumper with Conveyer to Nio 2000 mp. |                 |
| Total                                       | \$6,502,000 🐇 🦯 |
| Scenario #2 Bottom Dump af Planta           |                 |
| Loop Track                                  | \$1,102,000     |
| Bottom Dump with Conveyor to Silo 1500 tph  | \$1,818,000     |
| New 15,000 Ton Dome                         | \$1,600,000     |
| Total                                       | \$4,520,000     |

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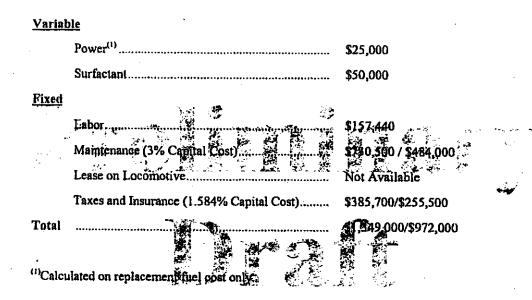
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#### **EXHIBIT 2D-4**

#### OPERATING COST ESTIMATE FOR POLK DIRECT RAIL DELIVERY



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