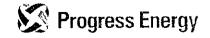
| | FLORIDA PUBLIC SERV | TEE COMMISSION | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| | AUDIT DOCUMENT/RI NOTICE OF | ECORD REQUEST | |
| TO: Maritza Iacono | NOTICE OF | Undkyc | |
| UTILITY:Progress E | nerøv Florida | Carl Vinson | - |
| | | AUDIT MANAGER | |
| FROM: -Carl Vinson | | | |
| REQUEST NUMBER: | DR-5 | DATE OF REQUEST: 5/28/08 - | Due 6/09/08 |
| AUDIT PURPOSE:N | luclear Controls Review | | |
| REQUEST THE FOLL(| DWING ITEM(S) BE PROVID | ED BY:Maritza lacono | |
| | -22.006, F.A.C., THIS REQUE | A DESTRUCTION OF A | AN INQUIRY |
| | | <u>x</u> OUTSIDE OF | AN INQUIRY |
| ITEM DESCRIPTION: | | | |
| | | t request response, please provide cop nmendations for all contracts of \$1,00 | |
| that have been awarded to | 编辑编辑编辑编辑编辑编辑编辑 化化物理验 法公司法庭 计子上的 化乙基乙基乙基乙基乙基乙基乙基乙基 | sole source selection of Levy plant a | nd CR3 Unrate |
| | s of \$1,000,000 or more that hav | | |
| 21 a. Please list and brief | ly describe any "lessons learned" | from Progress Energy's North Carolin | na nuclear unit |
| uprates that have been inco | orporated into the planning, desig | gn or implementation of the CR3 uprat | e. |
| b Please indicate for e completed on schedule and | | Carolina nuclear unit uprates whether t | the project was |
| COMPLETED OF SCHEDULE MIN | | | |
| | | completed cost for each of Progress I | Energy's North |
| c. Please provide the o Carolina nuclear unit upra | riginal cost estimate and the fina | l completed cost for each of Progress E a brief description of why completion | |
| c Please provide the o Carolina nuclear unit upra exceeded the estimate(s). | riginal cost estimate and the fina te projects. If applicable, provide | a brief description of why completion | costs |
| c. Please provide the o Carolina nuclear unit upra exceeded the estimate(s). 3) Please describe in detai | riginal cost estimate and the fina te projects. If applicable, provide I how the company is maintaining | · · · · · · · · · · · · · · · · · · · | costs |
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| c. Pléase provide the o Carolina nuclear unit upra exceeded the estimate(s). 3) Please describe in detai AP1000 unit under constru- 4) Please provide a copy o transmittal correspondence TO: AUDIT MANAGER THE REQUESTED RECORD (1) | riginal cost estimate and the fina te projects. If applicable, provide I how the company is maintaining action in China. If the March 28, 2008 Westingho e. Cor Documentation: VIDED TODAY OVIDED BY THE REQUESTED DAT NION, ITEMS(S) | a brief description of why completion g awareness of the status of the Westin use/Shaw-Stone & Webster Letter of I $DATE: \frac{1}{6000}$ IE BUT WILL BE MADE AVAILABLE BY IS (ARE) PROPRIETARY AND 366.093, OR 367.156 F.S. TO MAINTA: B UTILITY OR OTHER PERSON MUST, W JEST FOR CONFIDENTIAL CLASSIFICAT ATIVE SERVICES. REFER TO RULE 25-22 | rty Plum |

Crystal River #3 Electric Power Uprate – BOP Engineering

Executive Summary AREVA Contract # 101659 - 093 October 18, 2007

CONFIDENTIAL



BOP Contract Summary: Scope (Slide b)

- Belly Drain Heat Exchangers (recover heat)
 - Estimated Cost
 REDACTED
 - ♦ 34MWth gain, 4MWe Recovery
 - Cost Benefit REDACTED yr < 2 years payback)</p>

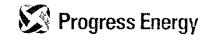


- Turbine Generator Upgrade (developing EC's)
 - Low Pressure Turbine (3% efficiency gain, 28MWe)
 - High Pressure Turbine (1% efficiency gain, 9Mwe)
 - Main Generator and Exciter (1200MVA, 430 MVAR, 0.93 pf)
 - Contract costs
 REDACTED
 - ◆ Cost Benefit 2009 at 2609 MWth (REDACTED yr < 8 yr payback)



BOP Contract Summary: Scope (Slide f)

- Condensate Pumps and Motors
 - Existing flow Margin of 1.5%
 - ♦ EPU requirements increase of 17%
 - New pumps and motors will provide 4% margin above EPU requirements
 - Direct Drive Digital control Single Failure Proof Control System.
 - Removes inefficiency of mag coupling
 - Reduces environmental noise hazard
 - Removes single point vulnerability



BOP Contract Summary: Scope (Slide g)

- Feed Water Booster Pumps and Motors
 - Existing flow margin 9.4%, No margin for 17% EPU
 - Recommend maintain existing margin (10%) for feed water transients
 - Convert from 4160V to 6190V removes load from Aux XFMR low load tap (existing margin on low load tap < 15%, margin on high load tap > 35%)
- Condenser Performance and FIV calculations
 - Determination of Circ water flow rate and tube staking and baffle/impinge plate requirements
 - Condenser Baffle Plate Installation EC



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BOP Contract Summary: Scope (Slide h)

- Electrical Distribution System calculations
 Verify load center margin and protective relaying
- Mechanical Ultimate Heat Sink Calculations
 - Verify adequacy of ECCS heat exchangers and pumps (EDG margin impact)
- Turbine Building Structural Evaluation
 - Verify increased loading of LPT/HPT adequate for Turbine pedestal and floor loading evaluations for new MSRs and Heat Exchangers
- Turbine Building Internal Flooding
 - Increase Cir Water flow of 22%

LAR Support



CATERON

BOP Contract Summary: Contract Bidders

- AREVA
 - Completed CR3 MUR
 - Performing CR3 NSSS



- Team very capable of completing BOP and integrating complete study
- Areva partnered with Worley Parsons, the Original A/E for CR3 BOP
- ENERCON
 - Conducted Waterford BOP
 - NSSS Set points only in conjunction with Westinghouse
- ◆ TCI
 - No real experience in the conduct of a similar study, helped to develop the Specification
 - Did not bid all Tasks

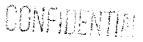
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BOP Contract Summary: Technical Evaluation of Bid

Summary of Technical Evaluation

- Concern for Enercon not Understanding scope and increasing cost
 - Served as A/E for RNP's ISFI. Initial Bid REDACTED final cost \$ REDACTED
 - ♦ Watertord BOP Requested REDACTED in funding to handle overruns. Ultimately eaten by Westinghouse
 - Enercon's price for the lead COLA was 2x our JVT. On numerous occasions our JVT has bailed out Enercon even after Enercon receiving additional funding.
 - TCI did not have any bench depth, plans to sub contract engineering support.



STATE BURGER STATES



BOP Contract Summary: Technical Evaluation of Bid

Quality

REDACTED

- AREVA has full time employees with strong history of the B&W design plants.
 - Proven performance on MUR and NSSS
 - Stronger interfaces with vendors
 - Teamed with original A/E for BOP at CR3

CONFIDENTIAL.



BOP Contract Summary: Bid Price Comparison (\$000's)

Initial Bid

Bid Clarification - 1*

REDACTED

Enercon

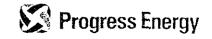
Bid Clarification - 2**

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*Bidders were asked to review organization, set scope, convert T&M work to Fixed Price electrical calculations, Condensate Speed Control Drives equipment, etc.

AREVA

**Bidders were asked to review hours for Tasks 3 (T/G Mods) and 9 (Condensate Speed Drives) to determine their alignment with the Toshiba design reviews for the equipment.



CONF. DOM:

BOP Contract Summary: AREVA Negotiations

Price Reduction

REDACTED

Risk Reduction*

REDACTED

Royalties

REDACTED

Note:

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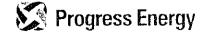


BOP Contract Summary: AREVA Negotiated Price (\$000's)

REDACTED

REDACTED

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BOP Contract Summary: Bidder Selection Basis

Technical COMPREME

AREVA has a proven track record with Progress for this work

Enercon has had issues on this type work and other recent major projects

Commercial

Progress has ultimate control of Contingency Funding and should be able to control at the lower quartile.

REDACTED

Conclusion

AREVA is best from a Technical perspective and on average equal cost



BOP Contract Summary: Payment Milestones/Dis-incentive

Payment Milestones are designed to provide an incentive to complete scheduled work on time and a dis-incentive for failure to meet schedule.

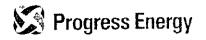
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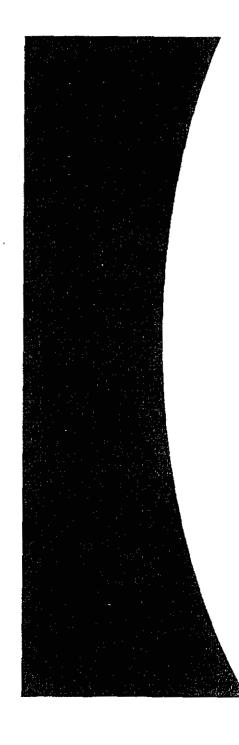


BOP Contract Summary: Limit of Liability

Per the Master Agreement #101659, the LOL will be

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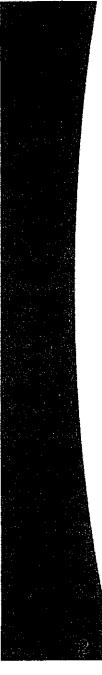


Siemens Contract #145569 Work Authorization #50 Executive Summary August 8, 2007

Turbine Generator Retrofit Purchase & Installation

CONFRONTIN





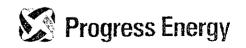
Contents:

- Scope
- Schedule
- Comparison of Bid Price
- Negotiated Savings
- Comparison of BNP Pricing
- System Bundling
- Performance Incentives
- Warranty
- Liquidated Damages/Dis-Incentive
- Limits of Liability/Extension of Insurance
- 2009 Performance Guarantee
- 2011 Performance Guarantee
- 100 Day Performance Guarantee
- Project Review Team

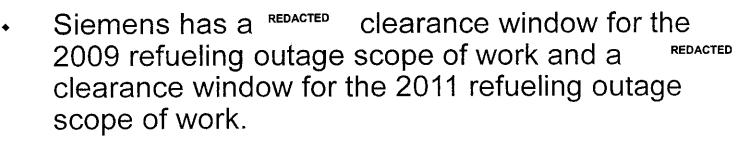


Siemens Contract Summary: Scope of Work

Contractor shall provide all labor, supervision, materials, equipment, and tools to supply, replace and install the High Pressure Turbine Rotors, Low Pressure Turbine Rotors, Generator, and Exciter at Crystal River Unit #3.



Siemens Contract Summary: Project Schedule



- The Project Schedule consists of three distinct schedules:
 - Engineering Deliverable Schedule
 - Manufacturing Schedule
 - Installation Schedule
- All three shall be submitted for owner review and approval within 60 days of contract award.





Comparison of Pricing from Bid Submittals (\$000's)

| Equipment Prices | Alstom | Siemens | |
|-------------------------|--------|----------|--|
| HP & LP Turbines | | REDACTED | |
| Generator | | | |
| Exciter | | | |
| Field Installation | | REDACTED | |
| Total Cost | | | |





Siemens Contract Summary: Negotiated Savings (\$000's)

Discounts

Price with Labor

Bundled Discount

Price after Discount

Evaluated Added Scope

- HP turbine gland steam spillover valve
- Machining steam lead inlet flanges
- Rotor lifting beam
- Extended warranty
- Extended property insurance

Total Evaluated Price

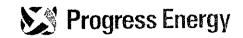
Alstom Siemens

REDACTED





Siemens Contract Summary: Corporate Bundling- 11 Rotors





Siemens Contract Summary: Performance Incentives (\$000's)





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Siemens Contract Summary:







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Siemens Contract Summary: Project Review Team

Project Manager – Ted Williams Project Technical Lead – Scott Deahna Legal – Dave Conley Tax – Paul Matthews Financial – Gerry Dowd Audit – Elwyn Wood Contracts – Tony Owen Executive Sponsor – Danny Roderick



 $(1, \dots, n_{k+1}) \in H^{1}_{K}(\mathbb{R}^{k}) \to H^{1}_{K}(\mathbb{R}^{k})$

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Siemens Contract Summary: Negotiated Savings (\$000's)

Discounts

Price with Labor

Bundled Discount

Price after Discount

Evaluated Added Scope

- HP turbine gland steam spillover valve
- Machining steam lead inlet flanges
- Rotor lifting beam
- Extended warranty
- Extended property insurance

Total Evaluated Price

Alstom Siemens

REDACTED





Thermal Equipment Incorporated (TEI) Contract #XXXXXX

Executive Summary August XX, 2007

Moisture Separator Reheaters (MSRs)



TEI Contract Summary Contents:

- Scope
- Payment Milestones
- Performance Incentives
- Warranty
- Performance Liquidated Damages
- Delivery Liquidated Damages
- Limits of Liability
- Project Review Team



 $= \frac{1}{2} \sum_{i=1}^{n} \frac{$

TEI Contract Summary Scope of Work:

Contractor shall provide the necessary management, personnel, material and facilities (except as specified to be furnished by Owner) and do all things necessary or incidental to the design, engineering, fabrication, testing, furnishing, delivery to Owner, of four Moisture Separator Reheaters (MSRs) with two stages of reheat.



TEI Contract Summary Payment Milestones:

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TEI Contract Summary Performance Guarantees:





TEI Contract Performance Guarantees







TEI Contract Summary Performance Liquidated Damages:





TEI Contract Summary Delivery Liquidated Damages:

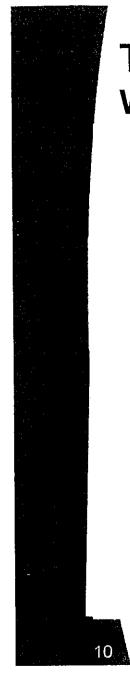






TEI Contract Summary Warranty:





TEI Contract Summary Warranty continued:

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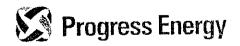


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TEI Contract Summary Limits of Liability:

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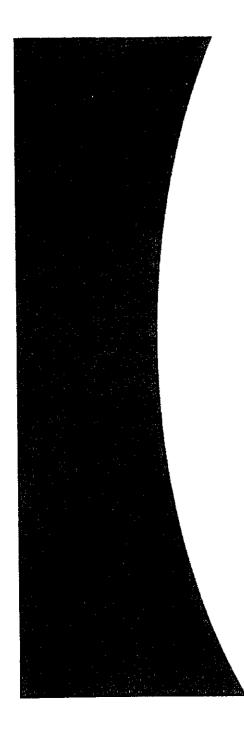
TEI Contract Summary: Project Review Team

Project Manager Project Technical Lead Legal Tax Financial Audit Contracts Executive Sponsor

Ted Williams Scott Deahna Dave Conley Paul Matthews Gerry Dowd Elwyn Wood Elwyn Wood Tony Owen Danny Roderick



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Contract #355217 YUBA HEAT TRANSFER, LLC

Executive Summary

February 11, 2008

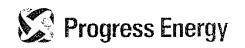
Design, Fabrication, and Delivery of Feedwater Heaters & Heat Exchangers for Crystal River Unit #3





Contents:

- Scope
- Payment & Schedule
- Comparison of Bid Price
- Negotiated Savings
- Performance Guarantee
- Warranty/Liquidated Damages
- Limits of Liability
- Project Review Team



YUBA Contract Summary: Scope of Work

Contractor shall design, fabricate, test, prepare for shipment, and deliver two (2) Condensate Heaters (Nos. CDHE-3A/3B) and two (2) Secondary Plant Component Cooling Water Heat Exchangers (Nos. SCHE-1A/1B) for the Crystal River Nuclear Power Station.



Payment & Project Schedule

REDACTED



CON LAND



Comparison of Pricing from Bid Submittals



Negotiated Savings

• £.e.

YUBA

Bid Price Negotiated Cost Reductions and Added scope

REDACTED

Total Contract Price

Negotiated Cost Avoidances

REDACTED

Total Evaluated Price

Progress Energy

TEI

REDACTED

\$2,655,680 \$4,021,875

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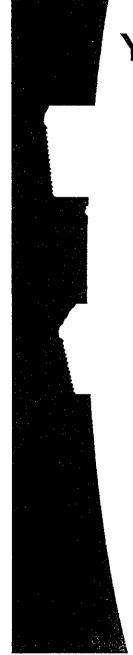
YUBA Contract Summary:



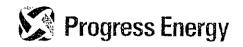
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REDACTED





YUBA Contract Summary: Limits of Liability

REDACTED



YUBA Contract Summary: <u>Project Review Team</u>

Project Manager – Ted Williams

Designated Rep & Technical Lead – Larry Sexton

Legal – Dave Conley

Contracts – Tony Owen / Adrien Surin

Executive Sponsor – Danny Roderick



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Thermal Equipment Incorporated (TEI) Contract #342253

Executive Summary October 1, 2007

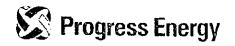
Moisture Separator Reheaters (MSRs)

Progress Energy Note: RFP + Commercial Eveluations performed av part of T/G RFP for 1 CR 3

 $(1, 2, 2, 3) = \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum$

TEI Contract Summary Contents:

- Scope of Work
- Bid Price Comparison
- Negotiated Savings/Discount
- Payment Milestones
- Performance Guarantees
- Performance Guarantees Based on MWe
- Warranty
- Delivery Liquidated Damages
- Limits of Liability
- Project Review Team



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TEI Contract Summary Scope of Work:

Contractor shall provide the necessary management, personnel, material and facilities (except as specified to be furnished by Owner) and do all things necessary or incidental to the design, engineering, fabrication, testing, furnishing, delivery to Owner, of four Moisture Separator Reheaters (MSRs) with two stages of reheat.

| | New | Current |
|-----------------------|---------------------|--------------------|
| No. of Tubes | 8,144 | 4,368 |
| Heat Transfer Surface | (1018x8) 315,496 | (546x8) 144,032 |
| | (39,437x8) | (18,004x8) |
| Chevron | Stainless Steel* | Carbon Steel |

Comparison of New & Current MSRs

* Improved moisture removal



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 $S_{\rm eff} = 10^{-10}$ s where s

TEI Contract Summary: Project Review Team

Project Manager Project Technical Lead Legal Tax Audit Contracts Executive Sponsor Ted Williams Scott Deahna Dave Conley Betsy Dorset Loyd Graves Tony Owen Danny Roderick



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