BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for approval of revisions to standard offer contract and rate schedules COG-1 and COG-2, by Tampa Electric Company. DOCKET NO. 120074-EI ORDER NO. PSC-12-0337-TRF-EI ISSUED: June 27, 2012

The following Commissioners participated in the disposition of this matter:

RONALD A. BRISÉ, Chairman LISA POLAK EDGAR ART GRAHAM EDUARDO E. BALBIS JULIE I. BROWN

ORDER APPROVING STANDARD OFFER CONTRACT AND TARIFF

BY THE COMMISSION:

Case Background

On April 2, 2012, Tampa Electric Company (TECO) filed its petition for approval of an amended standard offer contract in accordance with Rules 25-17.200 through 25-17.310, Florida Administrative Code (F.A.C.). Section 366.91(3), Florida Statutes (F.S.), requires that each investor-owned utility (IOU) continuously offer to purchase capacity and energy from renewable energy generators, and Rules 25-17.200 through 25-17.310, F.A.C., require each IOU to file by April 1 of each year a standard offer contract based on the next avoidable generating unit or planned purchase.

TECO's standard offer contract is based on its 2012 Ten-Year Site Plan. The company's Ten-Year Site Plan includes generating capacity additions in 2017 and 2019. The 2017 addition is 463 megawatts of incremental capacity from the conversion of existing combustion turbines, Polk units 2 through 5, into a combined cycle unit. The 2019 addition is a 177 megawatts combustion turbine. Rule 25-17.250(2), F.A.C., requires that approved standard offer contracts remain open until a request for proposal (RFP) is issued for the utility's planned generating unit. Because the 2017 Polk conversion is the subject of an issued RFP, TECO's standard offer contract is based on the 2019 combustion turbines.

On May 1, 2012, TECO submitted responses to Staff's First Data Request Nos. 1-10 relating to the company's standard offer contract. On May 21, 2012, TECO submitted revised tariff sheets and revised responses to correct an error in the calculation of escalation of fixed and variable operation and maintenance.

We have jurisdiction over this contract pursuant to Sections 366.04 and 366.91, F.S.

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Analysis

Pursuant to Rule 25-17.250, F.A.C., an investor-owned utility must continuously make available a standard offer contract for the purchase of firm capacity and energy from renewable generating facilities and small qualifying facilities with a design capacity of 100 kW or less. Rule 25-17.250(1), F.A.C., specifies that the standard offer contract must be based on the next avoidable fossil fueled generating unit identified in the utility's Ten-Year Site Plan. In addition, each investor-owned utility with no planned generating unit identified in its Ten-Year Site Plan, shall submit a standard offer based on avoiding or deferring a planned purchase.

TECO's 2012 standard offer contract is based on its 2012 Ten-Year Site Plan. The company's Ten-Year Site Plan includes generating capacity additions in 2017 and 2019. The 2017 addition is 463 megawatts of incremental capacity from the conversion of existing combustion turbines, Polk units 2 through 5, into a combined cycle unit. An RFP for the 463 MW of capacity was issued on March 23, 2012. The list of potential providers from the RFP will be screened, evaluated, and condensed to a short list of finalists to be announced in June 2012. TECO's 2019 addition is a 177 megawatts combustion turbine.

Rule 25-17.250(2), F.A.C., requires that approved standard offer contracts remain open until an RFP is issued for the utility's planned generating unit. As previously mentioned, an RFP has been issued for the conversion of the Polk units, therefore exempting a need for a standard offer contract for the additional capacity. As such, TECO's standard offer contract is based on the 2019 combustion turbine.

A renewable generator can elect to have no performance requirements and deliver energy on an as-available basis. If the renewable generator commits to certain performance requirements based on the avoided unit, including being online and delivering capacity by the inservice date, it can receive a capacity payment under the standard offer contract or a separately negotiated contract. To promote renewable generation, we require multiple options for capacity payments, including the option to receive Normal, Levelized, Early, or Early Levelized payments.

If a renewable generator elects to receive Normal or Levelized capacity payments, it would receive those payments starting on the in-service date of the avoided unit (2019). If Early or Early Levelized capacity payments were selected, those payments would begin at an earlier date but tend to be less in the later years as the net present value of payments must remain the same. In addition, capacity payments greater than those made under the Normal option require additional performance security from the renewable generator. Table 1 below estimates the annual payments that would be made to a renewable facility of 50 MW running at a 90 percent capacity factor, with the avoided unit in-service date of 2019.

	Capacity Payment Type									
Year	Energy Payment (\$000)	Normal	Levelized	Early	Early Levelized					
2013	3 18.078		(4000)	2 2 2 2 0	2 927					
2013	10,070 2,320		2,037							
2014	21.004	457 2,388		2,042						
2015	21,004	2,458 2,		2,848						
2010	21,584	21,584 2,530 2		2,854						
2017	19,356 2,605		2,860							
2018	20,730	2,681		2,866						
2019	21,103	4,787	5,577	2,760	2,873					
2020	22,408	4,927	5,589	2,841	2,879					
2021	24,162	5,072	5,601	2,925	2,886					
2022	23,804	5,221	5,613	3,011	2,893					
2023	25,283	5,375	5,626	3,099	2,900					
2024	25,091	5,533	5,638	3,190	2,907					
2025	26,822	5,696	5,651	3,284	2,914					
2026	26,480	5,863	5,665	3,381	2,922					
2027	27,954	6,036	5,678	3,480	2,930					
2028	29,260	6,213	5,692	3,583	2,938					
2029	29,552	6,396	5,707	3,688	2,946					
2030	29,001	6,584	5,722	3,797	2,954					
2031	30,027	6,778	5,737	3,909	2,963					
2032	31,884	6,977	5,752	4,024	2,971					
Tot.2013 NPV	493,040	28,402	28,402	28,402	28,402					

Table 1 - Estimated Annual Payments to a 50 MW Renewable Facility (90% Capacity Factor)

TECO originally submitted the revised sheets of its renewable standard offer contract and revised tariff sheets corresponding to its COG-1 and COG-2 rate schedules. On May 21, 2012, TECO submitted revised tariff sheets and revised responses to correct an error in the calculation of escalation of fixed and variable operation and maintenance. Other than these corrections to the originally submitted material, the revised tariff sheets reflect changes associated with the 2019 combustion turbine's new economic parameters. Beyond these revisions, all other terms, such as performance, payment, and security are retained from the previous 2011 standard offer contract and related tariffs. The tariff sheets are attached to this Order in type and strike format as Attachment A.

The provisions of the 2012 standard offer contract and related tariffs submitted by TECO conform to all the requirements of Rules 25-17.200 through 25-17.310, F.A.C. TECO has filed tariff sheets that reflect the economic and technical assumptions of the 2019 avoided unit. The standard offer contract provides flexibility in the arrangements for payments so that a developer of renewable generation may select the payment stream best suited to its financial needs. Therefore, we find it appropriate to approve TECO's standard offer contract and related tariffs.

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that Tampa Electric Company's standard offer contract and related tariffs are hereby approved, effective June 19, 2012. It is further

ORDERED that the provisions of this Order, shall become final and effective upon the issuance of a Consummating Order unless an appropriate petition, in the form provided by Rule 28-106.201, Florida Administrative Code, is received by the Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on the date set forth in the "Notice of Further Proceedings" attached hereto. It is further

ORDERED that if a protest is filed within 21 days of the issuance of the Order, the tariffs shall remain in effect pending resolution of the protest. Potential signatories to the standard offer contract shall be aware that Tampa Electric Company's standard offer contract and tariffs may be subject to a request for hearing, and if a hearing is held, may subsequently be revised. It is further

ORDERED that if no timely protest is filed and this Order becomes final, then this docket shall be closed upon the issuance of a Consummating Order.

By ORDER of the Florida Public Service Commission this 27th day of June, 2012.

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ANN COLE Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399 (850) 413-6770 www.floridapsc.com

Copies furnished: A copy of this document is provided to the parties of record at the time of issuance and, if applicable, interested persons.

NOTICE OF FURTHER PROCEEDINGS

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any administrative hearing or judicial review of Commission orders that is available under Sections 120.57 or 120.68, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing or judicial review will be granted or result in the relief sought.

Mediation may be available on a case-by-case basis. If mediation is conducted, it does not affect a substantially interested person's right to a hearing.

The Commission's decision on this tariff is interim in nature and will become final, unless a person whose substantial interests are affected by the proposed action files a petition for a formal proceeding, in the form provided by Rule 28-106.201, Florida Administrative Code. This petition must be received by the Office of Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on July 18, 2012.

In the absence of such a petition, this Order shall become final and effective upon the issuance of a Consummating Order.

Any objection or protest filed in this docket before the issuance date of this order is considered abandoned unless it satisfies the foregoing conditions and is renewed within the specified protest period.



Attachment A THIRD FOURTH REVISED SHEET NO. 8.020 CANCELS SECOND THIRD REVISED SHEET NO. 8.020

STANDARD RATE FOR PURCHASE OF AS-AVAILABLE ENERGY FROM QUALIFYING COGENERATION AND SMALL POWER PRODUCTION FACILITIES (QUALIFYING FACILITIES)

SCHEDULE

COG-1, As-Available Energy

AVAILABLE

Tampa Electric Company will purchase energy offered by any Qualifying Facility irrespective of its location, which is directly or indirectly interconnected with the Company, under the provisions of this schedule or at contract negotiated rates. Tampa Electric Company will negotiate and may contract with a Qualifying Facility, irrespective of its location, which is directly or indirectly interconnected with the Company where such negotiated contracts are in the best interest of the Company's ratepayers.

APPLICABLE

To any cogeneration, renewable energy, or small power production Qualifying Facility producing energy for sale to the Company on an As-Available basis. As-Available Energy is described by the Florida Public Service Commission (FPSC) Rule 25-17.0825, Florida Administrative Code (F.A.C.), and is energy produced and sold by a Qualifying Facility on an hour-by-hour basis for which contractual commitments as to the time, quantity, or reliability of delivery are not required. Because of the lack of assurance as to the quantity, time, or reliability of delivery of As-Available Energy, no Capacity Payment shall be made to a Qualifying Facility for delivery of As-Available Energy. Criteria for achieving Qualifying Facility status shall be those set out in FPSC Rule 25-17.080.

CHARACTER OF SERVICE

Purchases within the territory served by the Company shall be, at the option of the Company, single or three phase, 60 hertz, alternating current at any available standard Company voltage. Purchases from outside the territory served by the Company shall be three phase, 60 Hertz, alternating current at the voltage level available at the interchange point between the Company and the entity delivering As-Available Energy from the Qualifying Facility.

Continued to Sheet No. 8.030

ISSUED BY: J. B. RamilG. L. Gillette, President DATE EFFECTIVE: March 30, 1999

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Docket No. 120074-EI



Attachment A FIFTH SIXTH REVISED SHEET NO. 8.101 CANCELS FOURTH-FIFTH REVISED SHEET NO. 8.101

METHODOLOGY TO BE USED IN THE CALCULATION OF AVOIDED ENERGY COST SCHEDULE COG-1 APPENDIX A

The methodology Tampa Electric (TEC) has implemented in order to determine the appropriate avoided energy costs and any payments thereof to be rendered to qualifying facilities (QFs) is consistent with the provisions of Order No. 23625 in Docket No.891049-EU, issued on October 16, 1990, and with the Amendment of Rules 25-17.080 et seq, Florida Administrative Code.

The avoided energy costs methodology used to determine payments to Qualified Facilities (QFs) on an hourly basis is based on the incremental cost of fuel using the average price of replacement fuel purchased in excess of contract minimums and is further described in Exhibit 4. Generally, avoided energy costs are defined to include incremental fuel, identifiable variable operation and maintenance expenses, identifiable variable purchase power cost, and an adjustment for line losses reflecting delivery voltage.

Under normal conditions the Company will have additional generation resources available which can carry its native load and firm interchange sales without the QF's contribution. When this is the case and the QF is present, the incremental fuel portion of the avoided energy cost is equal to the difference between TEC's production cost at two load levels, with and without the QFs' contribution.

In those situations where the Company's available maximum generation resources not including its minimum operating reserves are insufficient to carry its native load and firm interchange sales, in the absence of the QF contribution, TEC's incremental fuel component of the avoided energy cost will be determined by:

- system lambda if "off-system purchases" are not being made and all available generation has been dispatched; or
- the highest incremental cost of any "off-system purchases" that are being made for native load.

Examples of these situations are found in Exhibits 2-61-4.

Continued to Sheet No. 8.102

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

Docket No. 120074-EI



Attachment A SECOND-THIRD REVISED SHEET NO. 8.104 CANCELS FIRST-SECOND SHEET NO. 8.104

Continued from Sheet No. 8.103

AVOIDED ENERGY COST CALCULATIONS

Example 1:

No Off-System Purchases, TEC's Generation Is Capable Of Carrying Its Native Load and Firm Sales.

The procedure used to deterministically calculate the incremental avoided energy cost associated with as-available energy on an hour by hourhour by-hour basis when no off-system purchases are taking place is as follows:

In these instances, the price per megawatt hour (\$/MWH) that Tampa Electric will pay the QFs is determined by calculating the production cost at two load levels.

This first calculation determines TEC's production cost "without" the benefit of cogeneration.

The second calculation determines TEC's production cost "with" the benefit of cogeneration.

After each of the two calculations are made, the avoided energy cost rate is calculated by dividing the difference in production cost between the two calculations described above by the "Standard Tariff Block." [The "Standard Tariff Block" is defined to be an x-megawatt (XMW) block equivalent to the combined actual hourly generation delivered to TEC from all QFs making as-available energy sales to Tampa Electric. In the absence of metered information on exports from a QF making as-available energy sales to Tampa Electric an estimate of the hourly exports from that Facility will be used, rounded to the nearest 5 MWs and then added to the sum of the other as-available purchases for that hour. Prior to the in-service date of the appropriate designated avoided unit, firm energy sales will be equivalent to as available sales. Beginning with the in-service date of the appropriate designated avoided unit, firm energy purchases from QFs shall be treated as "as-available" energy for the purposes of determining the XMW block size only during the periods that the appropriate designated avoided unit would not be operated.] The difference in production costs divided by the XMW block determines the As-Available Energy Payment Rate (AEPR) for the hour. The AEPR will be applied to the "Actual" QF megawatts purchased during the hour to determine payment to each QF supplying as-available energy, and each QF supplying firm energy in those instances where the avoided unit would not have been operated during the hour. See Exhibit 21.

Continued to Sheet No. 8.105

ISSUED BY: W. N. Cantrell<u>G. L.</u> <u>Gillette</u>, President DATE EFFECTIVE: March 9, 2004

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Docket No. 120074-EI



Attachment A SECOND THIRD REVISED SHEET NO. 8.105 CANCELS FIRST SECOND REVISED SHEET NO. 8.105

Continued from Sheet No. 8.104

Example 2:

Off-System Purchases Are Not Being Made. TEC's Generation Can Only Carry Its Native Load and Firm Sales With The QF Contribution.

The procedure used to deterministically calculate the incremental avoided energy cost associated with as-available energy on an hour by hour basis whenever Tampa Electric is not purchasing off-system interchange is as follows:

In this instance, the avoided energy cost that Tampa Electric will pay the QFs will be determined by calculating the production cost at the last MW load level. The avoided energy cost is the production cost at system lambda. See Exhibit 32.

In the situation where TEC's generation is not fully dispatched, and additional generation capability is available to price a portion of the QF block, then the QF block will be priced at a combination of the difference between TEC's production cost at two load levels as previously defined and at system lambda. See Exhibit 4<u>3</u>.

Example 3: Off-System Purchases Are Being Made To Serve Native Load.

The procedure used to deterministically calculate the incremental avoided energy cost associated with as-available energy on an hour by hour basis whenever Tampa Electric is making off-system purchases for native load is as follows:

In this instance, the price per MWH that Tampa Electric will pay is determined by applying the highest incremental cost of the off-system purchases to the QF block. See Exhibit 54.

DELIVERY VOLTAGE ADJUSTMENT

A credit for avoided line losses reflecting the voltage at which generation by the QFs is received is included in Tampa Electric's procedure for the determination of incremental avoided energy cost associated with as-available energy. Tampa Electric uses the adjustment factors shown on Sheet No. 8.050 for calculating the compensation for avoided line losses at the transmission and distribution system voltage levels based on the appropriate classification of service.

Continued to Sheet No. 8.106

ISSUED BY: W. N. CantrellG. L. Gillette, President DATE EFFECTIVE: March 9, 2004

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Attachment A SECOND-THIRD REVISED SHEET NO. 8.109 CANCELS FIRST SECOND REVISED SHEET NO. 8.109

	Continued from Sheet No. 8.107					
	EXHIBIT 2 <u>1</u>					
Example:	No Off-System Purchases, TEC's Generation Is Capable Of Carrying Its Native Load and Firm Sales.					
Given: Actua TEC's Nativ Firm	al QF Energy = 50 MWs s Maximum Available Generation = 1560 MWs e Load = 1550 MWs Sales = 10 MWs					
First Calcula Produ	ation ("WITHOUT" QF): uction Cost at 1560 MWs = \$20,275/Hour					
Second Calo Produ	culation ("WITH" QF): uction Cost at 1510 MWs = \$19,500/Hour					
Third Calculation (QF Rate \$/MWH): Actual Hourly Avoided Energy Cost = (\$20,275/Hour - \$19,500/Hour) / (50MW)						
or As-Av	vailable Energy Payment Rate (AEPR) = \$15.50/MWH					
	Continued to Sheet No. 8.110					
SSUED BY	: W. N. Cantrell <u>G. L.</u> DATE EFFECTIVE: March 8, 2004					

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Docket No. 120074-EI Date: June 7, 2012 Attachment A SIXTH SEVENTH REVISED SHEET NO. 8,110 CANCELS FIFTH SIXTH REVISED SHEET NO. 8.110 TAMPA ELECTRIC Continued from Sheet No. 8.109 **EXHIBIT 32** Example: Off-System Purchases Are Not Being Made. TEC's Generation Can Carry Its Native Load and Firm Sales Only With The QF Contribution. Given: Actual QF Energy = 50 MWs TEC's Maximum Available Generation = 1460 MWs Native Load = 1500 MWs Firm Sale = 10 MWs First Calculation: Production Cost at 1460 MWs = \$18,900/Hour Second Calculation: Production Cost at 1459 MWs = \$18,882.50/Hour Third Calculation (QF Rate \$/MWH): Actual Hourly Avoided Energy Cost at 1 MW (System Lambda1) = (\$18,900/Hour - \$18,882.50/Hour) / (1 MW) or As-Available Energy Payment Rate (AEPR) = \$17.50/MWH NOTE: 1 In this example, System Lambda is the production cost for the last MW segment to meet the load after dispatching all available generation capacity. Continued to Sheet No. 8.111

ISSUED BY: W. N. CantrollG. L. Gillette, President

DATE EFFECTIVE: March 9, 2004

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Docket No. 120074-EI Date: June 7, 2012



Attachment A THIRD FOURTH REVISED SHEET NO. 8.111 CANCELS SECOND THIRD REVISED SHEET NO. 8.111

	Continued from Sheet No. 8.110
ļ	EXHIBIT 4 <u>3</u>
	Example: Off-System Purchases Are Not Being Made to Serve Native Load and Firm Sales. Available Generation Capacity Is Not Fully Dispatched. Without the QF's Contribution, TEC's Native Load and Firm Sales Can Be Carried Only With Additional Power Purchases.
	Given: Actual QF Energy = 50 MWs TEC's Maximum Available Generation = 1530 MWs TEC's Actual Generation = 1500 MWs Native Load = 1540 MWs Firm Sale = 1 0 MWs
	Step 1 (Calculations for First 30 MWs) First Calculation ("WITHOUT" QF): Production Cost at 1530 MWs = \$20,590/Hour Second Calculation ("With" QF): Production Cost at 1500 MWs = \$20,050/Hour Third Calculation: Actual Hourly Avoided Energy Cost at 30 MWs = (\$20,590/Hour) - (\$20,050/Hour) = \$540/Hour
	Step 2 (Calculations for Remaining 20 MWs) First Calculation: Production Cost at 1530 MWs = \$20,590/Hour Second Calculation: Production Cost at 1529 MWs = \$20,571.50/Hour Third Calculation: Actual Hourly Avoided Energy Cost at 1 MW (System Lambda ¹) for 20 MWs= (\$20,590/Hour- \$20,571.50/Hour) X (20 MWs) = \$370/Hour
	Step 3 (Calculation of Composite Rate for Total 50 MW Block) Composite Actual Hourly Avoided Energy Cost of 50 MW Block = (\$540 + \$370)/ 50 MW or
	As-Available Energy Payment Rate (AEPR) = \$18.20/MWH
	Note: ¹ In this example, System Lambda is the production cost for the last MW segment to meet the load after dispatching all available generation capacity.
	Continued to Sheet No. 8.112

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: Juno 14, 2011

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Docket No. 120074-EI Date: June 7, 2012



Attachment A SECOND THIRD REVISED SHEET NO. 8.112 CANCELS FIRST-SECOND REVISED SHEET NO. 8.112

Continued from Sheet No. 8.111
EXHIBIT 54
Example: Off-System Purchases Are Being Made, TEC's Native Load and Firm Sales Can Be Carried Only With Additional Purchase Power.
Given: Actual QF Energy = 50 MWs TEC's Maximum Available Generation = 1500 MWs TEC's Actual Generation = 1500 MWs Native Load = 1540 MWs Firm Sales = 20 MWs Off-System Purchases1 = 10 MWs Costing \$400/Hour
Actual Incremental Hourly Avoided Energy Cost = \$400 / 10 MW
or AEPR = \$40/Hour
NOTE: 1 Off-System Purchase shall be the highest cost purchased energy block bought during the hour for native load.
ISSUED BY: W. N. CantrellG J. DATE EFFECTIVE: March 9, 2004

Gillette, President

Docket No. 120074-EI



Attachment A THIRD-FOURTH REVISED SHEET NO. 8.236 CANCELS SECOND-THIRD REVISED SHEET NO. 8.236

Continued from Sheet No. 8.234

Contracted Capacity payment made to the CEP and the "normal" Contracted Capacity payment calculated pursuant to Contracted Capacity payment option 1 (Value of Deferral Payments) in COG-2 will also be added each month to the Repayment Account, so long as the payment made to the CEP is greater than the monthly payment the CEP would have received if it had selected Contracted Capacity Payment Option 1 in Section 6.b.iii. The annual balance in the Repayment Account shall accrue interest at an annual rate of 8.027.95%.

Also beginning on _, at such time that the Monthly Contracted Capacity Payment made to the CEP, pursuant to the Contracted Capacity Payment Option selected, is less than the "normal" Monthly Contracted Capacity Payment in Capacity Payment Option 1 in COG-2, there shall be debited from the Repayment Account an Early Payment Offset Amount to reduce the balance in the Repayment Account. Such Early Payment Offset Amount shall be equal to the amount which the Company would have paid for capacity in that month if Contracted Capacity payments had been calculated pursuant to Contracted Capacity Payment Option 1 in COG-2 and the CEP receiving Contracted Capacity payments had elected to begin on , minus the Monthly Contracted Capacity Payment the Company makes to the CEP (assuming the MPS are met or exceeded), pursuant to the Contracted Capacity Payment Option chosen by the CEP in Section 6.b.ll.

The CEP shall owe the Company and be liable for the current balance in the Repayment Account. The Company agrees to notify the CEP monthly as to the current Repayment Account balance.

In the event of default by the CEP, the total Repayment Account balance shall become due and payable within twenty (20) business days of receipt of written notice, as reimbursement for the Early Contracted Capacity Payments made to the CEP by the Company. The CEP's obligation to reimburse the Company in the amount of the balance in the Repayment Account shall survive the termination of the CEP's Contract with the Company. Such reimbursement shall not be construed to constitute liquidated damages and shall in no way limit the right of the Company to pursue all its remedies at law or in equity against the CEP.

Continued to Sheet No. 8.238

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

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Docket No. 120074-EI

Date: June 7, 2012



Attachment A THIRD FOURTH REVISED SHEET NO. 8.326 CANCELS SECOND THIRD REVISED SHEET NO. 8.326

TITLE VALUE OF DEFERRAL METHODOLGY METHODOLOGY TO BE USED IN THE CALCULATION OF AVOIDED ENERGY COST	SHEET NO 8.328
VALUE OF DEFERRAL METHODOLGY METHODOLOGY TO BE USED IN THE CALCULATION OF AVOIDED ENERGY COST	8.328
METHODOLOGY TO BE USED IN THE CALCULATION OF AVOIDED ENERGY COST	0.044
	8.344
 2013-2019 COMBUSTION TURBINE Minimum Performance Standard Parameters for Avoided Unit Capacity Costs Exemplary Capacity Payment Schedules Parameters for Avoided Unit Energy Costs 	8.406
RESERVED FOR FUTURE USE	-
RESERVED FOR FUTURE USE	-
RESERVED FOR FUTURE USE	-
	2013-2019_COMBUSTION TURBINE Minimum Performance Standard Parameters for Avoided Unit Capacity Costs Exemplary Capacity Payment Schedules Parameters for Avoided Unit Energy Costs RESERVED FOR FUTURE USE RESERVED FOR FUTURE USE RESERVED FOR FUTURE USE

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: July 13, 2010

Docket No. 120074-EI Date: June 7, 2012



Attachment A FIRST-SECOND REVISED SHEET NO. 8.344 CANCELS ORIGINAL FIRST REVISED SHEET NO. 8.344

RATE SCHEDULE COG-2 APPENDIX B METHODOLOGY TO BE USED IN THE CALCULATION OF AVOIDED ENERGY COST

The methodology the Company has implemented in order to determine the appropriate avoided energy costs and any payments thereof to be rendered to CEPs is consistent with the provisions of Order No. 23625 in Docket No. 891049-EU, issued on October 16, 1990; the Amendment of FPSC Rules 25-17.080 et seq, F.A.C.

The avoided energy costs methodology used to determine payments to CEPs on an hourly basis is based on the incremental cost of fuel using the average price of replacement fuel purchased in excess of contract minimums-and is further described in Exhibit 1. Generally, avoided energy costs are defined to include incremental fuel, identifiable variable operation and maintenance expenses, identifiable variable purchased power costs and an adjustment for line losses reflecting delivery voltage.

Under normal conditions the Company will have additional generation resources available which can carry its native load and firm interchange sales without the CEP's contribution. When this is the case and the CEP is present, the incremental fuel portion of the avoided energy cost is equal to the difference between the Company's production cost at 2 load levels, with and without the CEP's contribution.

In those situations where the Company's maximum available generation (not including its minimum operating reserves) are-is insufficient to carry its native load and firm interchange sales, in the absence of the CEP contribution, the Company's incremental fuel component of the avoided energy cost will be determined by:

- 1. system lambda if "off-system purchases" are not being made and all available generation has been dispatched; or
- 2. the highest incremental cost of any "off-system purchases" that are being made for native load.

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

Docket No. 120074-EI Date: June 7, 2012



Attachment A ORIGINAL-FIRST REVISED SHEET NO. 8.352 CANCELS ORIGINAL SHEET NO. 8.352

Examples of these situations are found in Exhibits 2-51-4.

The As-Available Avoided Energy Cost, as determined by this methodology, is priced at a level not to exceed the Company's incremental fuel and identifiable variable operating and maintenance (O&M) expenses including the cost of any off-system purchases for native load.

PARAMETERS FOR DETERMINING AS-AVAILABLE AVOIDED ENERGY COSTS: The Company uses production costing methods for determining avoided energy cost payments to CEPs. Computerized production costing is accomplished on an hourly basis. The parameters used are as follows:

- 1. The system load is the actual system load at the Hour Ending with the clock hour (HE).
- The first allocation of load for production costing is to those units that are base loaded at a certain level for operating reasons. The remainder of the load is allocated to units available for economic dispatch through the use of incremental cost curves.
- The fuel costs associated with each of the Company's units operating at its allocated level of generation is determined by using the individual units input/output equation, its heat rate performance factor and the composite price of supplemental fuel.
- 4. The Company's own production cost for each hour of operation at a particular generation level equals the sum of the individual units' fuel cost for that hour. The production cost, thus determined, consists of the composite price of replacement fuel based on supplemental purchases and the incremental heat rate for the generating system.
- The Company's total cost equals its own production cost (paragraph 4 above), identified variable O&M, plus the cost of any off-system purchases to serve native load.
- 6. Native load includes all firm and non-firm retail load.
- The cost of off-system firm and non-firm variable purchases is defined as the highest energy cost energy block purchased for native load during the hour.
- 8. Firm interchange sales are included in production cost calculations.

ISSUED BY: C. R. BlackG. L. Gillette, President DATE EFFECTIVE: May 22, 2007

Docket No. 120074-EI



Attachment A

ORIGINAL FIRST REVISED SHEET NO. 8.378 CANCELS ORIGINAL SHEET NO. 8.378

In these instances, the \$/MWH price that the Company will pay the CEPs is determined by calculating the production cost at 2 load levels.

The 2nd calculation determines the Company's production cost with the benefit of cogeneration.

After each of the 2 calculations are made, the avoided energy cost rate is calculated by dividing the difference in production cost between the 2 calculations described above by the "Standard Tariff Block." [The "Standard Tariff Block" is defined to be an XMW block equivalent to the combined actual hourly generation delivered to the Company from all CEPs making As-Available Energy sales to the Company. In the absence of metered information on exports from the CEP making As-Available Energy sales to the Company, an estimate of the hourly exports from that Facility will be used, rounded to the nearest 5 MWs and then added to the sum of the other as-available purchases for that hour. Prior to the in-service date of the appropriate Designated Avoided Unit, firm energy sales will be equivalent to as-available sales. Beginning with the in-service date of the appropriate Designated Avoided Unit(s), firm energy purchases from CEPs shall be treated as as-available energy for the purposes of determining the XMW block size only during the periods that the appropriate Designated Avoided Unit would not be operated.] The difference in production costs divided by the XMW block determines the As-Available Energy Payment Rate (AEPR) for the hour. The AEPR will be applied to the "Actual" CEP MWs purchased during the hour to determine payment to each CEP supplying As-Available Energy, and each CEP supplying firm energy in those instances where the avoided unit would not have been operated during the hour. See Exhibit 21.

Example 2 Off-system purchases are not being made. The Company's generation can only carry its native load and firm sales with the CEP contribution.

The procedure used to deterministically calculate the incremental avoided energy cost associated with As-Avaílable Energy on an hour by hour basis whenever the Company is not purchasing off-system interchange is as follows:

In this instance, the avoided energy cost that the Company will pay the CEPs will be determined by calculating the production cost at the last MW load level. The avoided energy cost is the production cost at system lambda. See Exhibit 32.

In the situation where the Company's generation is not fully dispatched, and additional generation capability is available to price a portion of the CEP block, then the CEP block will be priced at a combination of the difference between the Company's production cost at 2 load levels as previously defined and at system lambda. See Exhibit 4<u>3</u>.

ISSUED BY: C. R. BlackG. L. Gillette, President DATE EFFECTIVE: May 22, 2007

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Docket No. 120074-EI Date: June 7, 2012



Attachment A

ORIGINAL FIRST REVISED SHEET NO. 8.382 CANCELS ORIGINAL SHEET NO. 8.382

Example 3 Off-system purchases are being made to serve native load.

The procedure used to deterministically calculate the incremental avoided energy cost associated with As-Available Energy on an hour by hour basis whenever the Company is making off-system purchases for native load is as follows:

In this instance, the \$/MWH price that the Company will pay is determined by applying the highest incremental cost of the off-system purchases to the CEP block. See Exhibit <u>64</u>.

DELIVERY VOLTAGE ADJUSTMENT: A credit for avoided line losses reflecting the voltage at which generation by the CEPs is received is included in the Company's procedure for the determination of incremental avoided energy cost associated with As-Available Energy. Tampa Electric uses the adjustment factors shown on Sheet No. 8.306 for calculating the compensation for avoided line losses at the transmission and distribution system voltage levels based on the appropriate classification of service.

Example: (Firm Standby Time-of-Day)

Actual Incremental Hourly Avoided Energy Cost is: \$14.80/MWH

Adjustment Factor for Line Losses: 1.0561

The Actual Incremental Hourly Avoided Energy Cost adjusted for avoided line losses associated with As-Available Energy provided to the Company would then become, in this example, \$15.63/MWH.

"IDENTIFIABLE" INCREMENTAL VARIABLE O&M: Tampa Electric's methodology for determining incremental avoided energy costs associated with As-Available Energy includes a procedure for calculating "identifiable" incremental variable O&M (VOM) expense.

A VOM rate (\$/MWH) is calculated annually for each Tampa Electric generating group. A generating group comprises units of the same type with similar size and operating characteristics (e.g., Big Bend coal units, Bayside CCs, Polk IGCC, all 180 MW CTs, etc.). The VOM rate for a generating group is calculated by dividing the previous year's identifiable VOM expenses for the group by the previous year's generation in megawatt-hours for the group.

ISSUED BY: C. R. BlackG. L. Gillette, President DATE EFFECTIVE: May 22, 2007

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Docket No. 120074-EI Date: June 7, 2012 Attachment A FIRST_SECOND REVISED SHEET NO. 8.396 CANCELS ORIGINAL FIRST REVISED SHEET NO. 8.396 TAMPA ELECTRIC EXHIBIT 21 Example: Off-system purchases are not being made. The Company's generation is capable of carrying its native load and firm sales. Given: Actual CEP Energy = 50 MWs The Company's Maximum Available Generation = 1560 MWs Native Load = 1550 MWs Firm Sales = 10 MWs First Calculation (WITHOUT CEP): Production Cost at 1560 MWs = \$20,275/hour Second Calculation (WITH CEP): Production Cost at 1510 MWs = \$19,500/hour Third Calculation (CEP Rate \$/MWH): Actual Hourly Avoided Energy Cost = (\$20,275/hour - \$19,500/hour) / (50 MW) or As-Available Energy Payment Rate (AEPR) = \$15.50/MWH

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

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Docket No. 120074-EI Date: June 7, 2012



Attachment A FIRST_SECOND_REVISED SHEET NO. 8.398

CANCELS ORIGINAL-FIRST REVISED SHEET NO. 8.398

TAMPA ELECTRIC

EXHIBIT 32	
Example: Off-system purchases are not being made. The Company's generation of carry its native load and firm sales only with the CEP contribution.	can
Given: Actual CEP Energy = 50 MWs The Company's Maximum Available Generation = 1460 MWs Native Load = 1500 MWs Firm Sale = 10 MWs	
First Calculation:	
Production Cost at 1460 MWs = \$18,900/hour	
Second Calculation: Production Cost at 1459 MWs = \$18,882.50/hour	
Third Calculation (CEP Rate \$/MWH):	
Actual Hourly Avoided Energy Cost at 1 MW (system lambda) = (\$18,900/hour - \$18,882.50/hour) / (1 MW)	
or	
As-Available Energy Payment Rate (AEPR) = \$17.50/MWH	
¹ In this example, system lambda is the production cost for the last MW segment to meet t load after dispatching all available generation capacity.	the

ISSUED BY: G. L._Gillette, President

DATE EFFECTIVE: June 14, 2011

Docket No. 120074-EI Date: June 7, 2012



Attachment A

FIRST SECOND REVISED SHEET NO. 8.402 CANCELS ORIGINAL FIRST REVISED SHEET NO. 8.402

EXHIBIT 43 Off-system purchases are not being made to serve native load and firm Example: sales. Available generation capacity is not fully dispatched. Without the CEP's contribution, the Company's native load and firm sales can be carried only with additional power purchases. Given: Actual CEP Energy = 50 MWs The Company's Maximum Available Generation = 1530 MWs The Company's Actual Generation = 1500 MWs Native Load = 1540 MWs Firm Sale = 10 MWs Step 1 (Calculations for First 30 MWs) First Calculation (Without CEP): Production Cost at 1530 MWs = \$20,590/hour Second Calculation (With CEP): Production Cost at 1500 MWs = \$20,050/hour Third Calculation: Actual Hourly Avoided Energy Cost at 30 MWs = (\$20,590/hour) - (\$20,050/hour) = \$540/hour Step 2 (Calculations for Remaining 20 MWs) First Calculation: Production Cost at 1530 MWs = \$20,590/hour Second Calculation: Production Cost at 1529 MWs = \$20,571.50/hour Third Calculation: Actual Hourly Avoided Energy Cost at 1 MW (system lambda) for 20 MWs = (\$20,590/hour - \$20,571.50/hour) X (20 MWs) = \$370/hour Step 3 (Calculation of Composite Rate for Total 50 MW Block) Composite Actual Hourly Avoided Energy Cost of 50 MW Block = (\$540 + \$370) / 50 MW or As-Available Energy Payment Rate (AEPR) = \$18.20/MWH ¹ In this example, system lambda is the production cost for the last MW segment to meet the load after dispatching all available generation capacity.

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

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Docket No. 120074-EI Date: June 7, 2012 Attachment A . **ORIGINAL FIRST REVISED SHEET NO. 8,404** CANCELS ORIGINAL SHEET NO. 8.404 TAMPA ELECTRIC **EXHIBIT 64** Off-system purchases are being made. The Company's native load and Example: firm sales can be carried only with additional purchase power. Given: Actual CEP Energy = 50 MWs The Company's Maximum Available Generation = 1500 MWs The Company's Actual Generation = 1500 MWs Native Load = 1540 MWs Firm Sales = 20 MWs Off-System Purchase = 10 MWs Costing \$400/hour Actual Incremental Hourly Avoided Energy Cost = \$400 / 10 MW Or As-Available Energy Payment Rate (AEPR) = \$40/hour Off-System Purchase shall be the highest cost purchased energy block bought during the hour for native load.

ISSUED BY: C. R. BlackG. L. Gillette, President DATE EFFECTIVE: May 22, 2007

Docket No. 120074-EI



Attachment A THIRD FOURTH REVISED SHEET NO. 8.406 CANCELS SECOND THIRD REVISED SHEET NO. 8.406

RATE SCHEDULE COG-2 APPENDIX C

2013 2019 COMBUSTION TURBINE

This Designated Avoided Unit is a 61177 MW (winter rating) natural gas-fired combustion turbine with a May 1, 20132019, in-service date.

MINIMUM PERFORMANCE STANDARDS

In order to receive a Monthly Capacity Payment, all Contracted Capacity and Associated Energy provided by CEPs shall meet or exceed the following MPS on a monthly basis. The MPS are based on the anticipated peak and off-peak dispatchability, unit availability, and operating factor of the Designated Avoided Unit over the term of this Standard Offer Contract. The CEP's proposed generating facility ("the Facility") as defined in the Standard Offer Contract will be evaluated against the anticipated performance of a combustion turbine, starting with the first Monthly Period following the date selected in Paragraph 6.b.ii of the Company's Standard Offer Contract.

- Dispatch Requirements: The CEP shall provide peaking capacity to the Company on a firm commitment, first-call, on-call, as-needed basis. In order to receive a Contracted Capacity Payment for each calendar month that the Facility is to be dispatched, the CEP must meet or exceed both the minimum Monthly Availability and Monthly Capacity Factor requirements.
- 2. Dispatch Procedure: Commencing on the calendar day prior to the Facility In-Service Date or the Extended Facility In-Service Date, as applicable, and continuing each calendar day thereafter during the Term, by 7:00 A.M. EPT, the CEP shall electronically transmit a schedule ("Available Schedule") of the hour-by-hour amounts of Contracted Capacity expected to be available from the Facility the next day ("Committed Capacity"). Commencing on the calendar day prior to the Facility In-Service Date or the Extended Facility In-Service Date, as applicable, and continuing each calendar day thereafter during the Term, by 3:00 P.M. EPT, the Company shall electronically transmit the hour-by-hour amounts of Contracted Capacity that the Company desires the CEP to dispatch from the Facility the next day based on the Available Schedule supplied at 7:00 A.M. EPT by the CEP ("Dispatch Schedule"). The CEP's Available Schedule and the Company's Dispatch

Continued to Sheet No. 8.408

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: July 13, 2010

Docket No. 120074-EI Date: June 7, 2012



Attachment A

FIFTH REVISED SHEET NO. 8.422 CANCELS FOURTH REVISED SHEET NO. 8.422

eginning W (Win	g with t ter Rat	he in-service date (5/12019) of the Company's Designated Avoi ing) natural gas-fired Combustion Turbine, for a 1 year deferral:	ded Unit, a 17
			VALUE
VAC	; _m =	Company's monthly value of avoided capacity, \$/kW/month, for each month of year n	8.12
к	=	present value of carrying charges for one dollar of investment over L years with carrying charges computed using average annual rate base and assumed to be paid at the middle of each year and present value to the middle of the first year	1.4763
I _n	=	total direct and indirect cost, in mid-year \$/kW including AFUDC but excluding CWIP, of the Designated Avoided Unit(s) with an in-service date of year n, including all identifiable and quantifiable costs relating to the construction of the Designated Avoided Unit that would have been paid had the Designated Avoided Unit(s) been constructed	878.11
On	=	total fixed operation and maintenance expense for the year n, in mid-year \$/kW/year, of the Designated Avoided Unit(s);	9.67
İρ	=	annual escalation rate associated with the plant cost of the Designated Avoided Unit(s)	3.0%
j _o	ł	annual escalation rate associated with the operation and maintenance expense of the Designated Avoided Unit(s);	2.4%
r	Ξ	discount rate, defined as the Company's incremental after tax cost of capital;	7.95%

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE:

Docket No. 120074-EI

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Attachment A FOURTH-FIFTH REVISED SHEET NO. 8.424 CANCELS THIRD-FOURTH REVISED SHEET NO. 8.424

		_		
			Continue from Sheet No. 8.122	
	L	=	expected life of the Designated Avoided Unit(s); and	25
	n	Ξ	year for which the Designated Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the contract for the purchase of firm capacity and energy.	2013<u>2019</u>
1	Am	а	monthly early capacity payments to be made to the CEP for each month of the contract year n, in \$/kW/month, if payments start in 20112;	6.95 <u>3.25</u>
1	m	=	Earliest year in which early capacity payments to the CEP may begin;	2011<u>2012</u>*
I	F	=	the cumulative present value, in the year contractual payments will begin, of the avoided capital cost component of capacity payments over the term of the contract which would have been made had capacity payments commenced with the anticipated in-service date of the Designated Avoided Unit(s);	596.55<u>411.58</u>*
	t	=	the term, in years, of the contract for the purchase of firm capacity if early capacity payments commence in year m;	12<u>17</u>-*
	* Actual selected	l value d by ti	es will be determined based on the capacity payment start date he CEP.	and contract term
1				
			Continued to Sheet No. 8.426	

DATE EFFECTIVE: June 14, 2011

ISSUED BY: G. L. Gillette, President

Docket No. 120074-EI Date: June 7, 2012



Attachment A

FIFTH REVISED SHEET NO. 8.426 CANCELS FOURTH REVISED SHEET NO. 8.426

2019 COMBUSTION TURBINE - A VOIDED UNIT											
			HOITLE			1010					
		OPTION 1 OPTION 2									
		NORMAL PAYMENT			EA	RLY PAYM	BN1.				
	OTVEAC	Starting	Starting	Starting	Starting	Starting	Starting	Starting	Starting		
CONTRA	UTY BAR	5/1/19	5/1/18	5/1/17	5/1/16	5/1/15	5/1/14	5/1/13	5/1/12		
FROM	то	\$/kw-mo	\$/kw-mo	\$/kw-mo	\$/kw -mo	\$/kw-mo	\$/kw-mo	\$/kw-mo	\$/kw -mo		
5/1/12	4/30/13								3.19		
5/1/13	4/30/14							3.58	3.28		
5/1/14	4/30/15						4.04	3.69	3.38		
5/1/15	4/30/16					4.57	4.16	3.79	3.48		
5/1/16	4/30/17				5.20	4.71	4.28	3.91	3.58		
5/1/17	4/30/18			5.96	5.36	4.85	4.40	4.02	3.68		
5/1/18	4/30/19		6.87	6.13	5.52	4.99	4.53	4.14	3.79		
5/1/19	4/30/20	7.98	7.07	6.31	5.68	5.14	4.67	4.26	3.90		
5/1/20	4/30/21	8.21	7.28	6.50	5.84	5.29	4.80	4.39	4.02		
5/1/21	4/30/22	8.45	7.49	6.69	6.02	5.44	4.95	4.52	4.14		
5/1/22	4/30/23	8.70	7.71	6.89	6.19	5.60	5.09	4.65	4.26		
5/1/23	4/30/24	8.96	7.94	7.09	6.38	5.77	5.24	4.78	4.38		
5/1/24	4/30/25	9.22	8.17	7.30	6.56	5.94	5.40	4.93	4.51		
5/1/25	4/30/26	9.49	8.41	7.51	6.76	6.11	5.55	5.07	4.65		
5/1/26	4/30/27	9.77	8.66	7.73	6.95	6.29	5.72	5.22	4.78		
5/1/27	4/30/28	10.06	8.91	7.96	7.16	6.48	5.89	5.37	4.92		
5/1/28	4/30/29	10.36	9.17	8.20	7.37	6.67	6.06	5.53	5.07		

Continued to Sheet No. 8.427

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE:

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Docket No. 120074-EI Date: June 7, 2012



Attachment A FOURTH-FIFTH REVISED SHEET NO. 8.426 CANCELS THIRD-FOURTH REVISED SHEET NO. 8.426

	Continued to Sheet No. 8-4288-427
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ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

Docket No. 120074-EI Date: June 7, 2012



Attachment A

ORIGINAL SHEET NO. 8.427

Continued from Sheet No. 8.426									
2019 COMBUSTION TURBINE - A VOIDED UNIT									
MONTHLY CAPACITY PAYMENT RATE (\$/KW-MONTH)									
			LEVE			UNS			
		OPTION 3				OPTION 4			
LEVELZED NORMAL · LEVELZED EARLY PAYMENT PAYMENT							PAYMENT		
CONTRACT YEAR		Starting 5/1/19	Starting 5/1/18	Starting 5/1/17	Starting 5/1/16	Starting 5/1/15	Starting 5/1/14	Starting 5/1/13	Starting 5/1/12
FROM	то	\$/kw-mo	\$/kw-mo	\$/kw-mo	\$/kw-mo	\$/kw -mo	\$/kw-mo	\$/kw-mo	\$/kw-ma
5/1/12	4/30/13								3.80
5/1/13	4/30/14							4.23	3.81
5/1/14	4/30/15						4.72*	4.24	3.81
5/1/15	4/30/16					5.30	4.73	4.25	3.82
5/1/16	4/30/17	[]			5.97	5.31	4.74	4.26	3.83
5/1/17	4/30/18			6.77	5.99	5.32	4.76	4.27	3.84
5/1/18	4/30/19		7.72	6.78	6.00	5.33	4.77	4.27	3.85
5/1/19	4/30/20	8.88	7.74	6.80	6.01	5.35	4.78	4.28	3.86
5/1/20	4/30/21	8.90	7.75	6.81	6.03	5.36	4.79	4.29	3.87
5/1/21	4/30/22	8.92	7.77	6.83	6.04	5.37	4.80	4.31	3.88
5/1/22	4/30/23	8.94	7.79	6.84	6.05	5.38	4.81	4.32	3.89
5/1/23	4/30/24	8.96	7.81	6.86	6.07	5.40	4.82	4.33	3.90
5/1/24	4/30/25	8.98	7.83	6.88	6.08	5.41	4.83	4.34	3.91
5/1/25	4/30/26	9.00	7.85	6.90	6.10	5.42	4.85	4.35	3.92
5/1/26	4/30/27	9.02	7.87	6.91	6.11	5.44	4.86	4.36	3.93
5/1/27	4/30/28	9.04	7.89	6.93	6.13	5.45	4.87	4.37	3.94
5/1/28	4/30/29	9.07	7.91	6.95	6.15	5.47	4.89	4.39	3.95

Continued to Sheet No. 8.428

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE:

Docket No. 120074-EI



Attachment A FOURTH FIFTH REVISED SHEET NO. 8.428 CANCELS THIRD FOURTH REVISED SHEET NO. 8.428

Continued from Sheet No. 8.4268.427 BASIS FOR MONTHLY ENERGY PAYMENT CALCULATION: 1. Energy Payment Rate: Prior to the in-service date of the avoided unit, the CEP's Energy Payment Rate shall be the Company's As-Available Energy Payment Rate (AEPR), as described in Appendix B. Starting the in-service date of the avoided unit, the basis for determining the Energy Payment Rate will be whether: a. The Company has dispatched the CEP's unit on AGC; or b. The Company has dispatched the CEP's unit off AGC and the CEP is operating its unit at or below the dispatched level; or c. The Company has dispatched the CEP's unit off AGC but the CEP is operating its unit above the dispatched level; or d. The Company has not dispatched the CEP's unit but the CEP is providing capacity and energy. Note: For any given hour the CEP unit must be operating on AGC a minimum of 30 minutes to qualify under case (a). The CEP's total monthly energy payment shall equal; (1) the sum of the hourly energy at the Unit Energy Payment Rate (UEPR), when the CEP's unit was dispatched by the Company, plus (2) the sum of the hourly energy at the corresponding hourly AEPR when the CEP's unit was operating at times other than when the Company dispatched the unit. 2. Unit Energy Payment Rate: Starting the in-service date of the avoided unit, the CEP will be paid at the UEPR for energy provided in Paragraph 1.a, Paragraph 1.b and that portion of the energy provided up to the dispatched level in Paragraph 1.c as defined above. The UEPR, which is based on the Company's Designated Avoided Unit and Heat Rate value of 10,798 Btu/kWh, will be calculated monthly by the following formula: $UEPR = FC + O_v$ where; Unit Variable Operation & Maintenance Expense in \$/MWH. O_v ~

ISSUED BY: G. L. Gillette, President

FC

DATE EFFECTIVE: Juno 14, 2011

- 30 -

Fuel Component of the Energy Payment in \$/MWH as defined

Docket No. 120074-EI Date: June 7, 2012



Attachment A FOURTH FIFTH REVISED SHEET NO. 8.428 CANCELS THIRD FOURTH REVISED SHEET NO. 8.428

-by:----10,798 Btu/kWh x FP FC 1,000 where; FP Fuel Price in \$/MMBTU determined by: GC/(1-FRP) + TC FP Continued to Sheet No. 8.434

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: June 14, 2011

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Docket No. 120074-EI



Attachment A SECOND-THIRD REVISED SHEET NO. 8,434 CANCELS FIRST-SECOND_REVISED SHEET NO. 8,434

	Continued from Sheet No. 8.428							
FC =	Fuel Component of the Energy Payment in \$/MWH as defined by:							
$\frac{FC = 11,983 \text{ Btu/kWh x FP}}{1,000}$								
where;								
FP =	Fuel Price in \$/MMBTU determined by:							
FP=	<u>GC/(1-FRP) + TC</u>							
GC =	Fuel Price in \$/MMBTU determined by taking the first publication of each month of Inside FERC's Gas Market Report low price quotation under the column titled "Index" for "Florida Gas Transmission Co., "Zone 2", listings.							
TC =	then currently approved Florida Gas Transmission (FGT) Company tariff rate in \$/MMBTU for forward haul Interruptible Market Area Transportation (ITS-1), including usage and surcharges.							
FRP=	then currently approved FGT Company tariff Fuel Reimbursement Charge Percentage in percent applicable to forward hauls for recovery of costs associated with the natural gas used to operate FGT's pipeline system.							
 As-Available Energy Payment Rate (AEPR): For energy provided and not covered under Paragraph 2 above, the AEPR will be applicable and will be based on the system avoided energy cost as defined in Appendix B. 								

ISSUED BY: C. R. BlackG. L. Gillette, President DATE EFFECTIVE: June 30, 2009

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Docket No. 120074-EI



Attachment A SECOND-THIRD REVISED SHEET NO. 8.434 CANCELS FIRST-SECOND REVISED SHEET NO. 8.434

Continued to Sheet No. 8.436

ISSUED BY: C. R. BlackG. L. Gillette, President DATE EFFECTIVE: June 30, 2009

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Docket No. 120074-EI Date: June 7, 2012



Attachment A

FIFTH REVISED SHEET NO. 8.436 CANCELS FOURTH REVISED SHEET NO. 8.436

	Continued from Sheet No. 8.428												
PARA	MET EN/	ERS ANCE	FOR	AVOII TS	DED	UNIT	ENERGY	AND	VARIABLE	OPERA	TION	AND	
Beginn operate	iing ed h	on Ma ad it b	ay 1, 2 been ir	019, to istalled	the e by th	extent ti e Com	hat the Des pany:	ignated	I Avoided Uni	t(s) would	d have	beer	
											VAL	UE	
o _v	=	total variable operating and maintenance expense, in \$/MWH, of the Designated Avoided Unit(s), in year n									4	.87	
н	1	The per l	avera kilowat	ge annu tt-hour (i	ual he Btu/k	eat rate Wh), o	e, in British f the Desig	Therm nated A	al Units (Btu voided Unit(s	s))	11,9	983	

ISSUED BY: G. L. Gillette, President

DATE EFFECTIVE: