

William P. Cox Senior Attorney Florida Power & Light Company 700 Universe Boulevard Juno Beach, FL 33408-0420 (561) 304-5662 (561) 691-7135 (Facsimile) Will.Cox@fpl.com

July 28, 2015

#### -VIA ELECTRONIC FILING-

Ms. Carlotta S. Stauffer Commission Clerk Florida Public Service Commission 2540 Shumard Oak Blvd. Tallassee, FL 32399-0850

Re: Docket No. 150108-EQ - Florida Power & Light Company's Petition for Approval of a

Renewable Energy Tariff and Standard Offer Contract

Dear Ms. Stauffer:

Enclosed for filing on behalf of Florida Power & Light Company ("FPL") is FPL's errata correcting FPL's Amended Petition for Approval of a Renewable Energy Tariff and Standard Offer Contract filed on July 7, 2015. Specifically, this errata corrects the scrivener's errors on Tariff Sheet Numbers 9.030, 9.032, 10.311 and 10.311.1.

Thank you for your assistance. Please contact me should you or your staff have any questions regarding this filing.

Sincerely,

s/ William P. Cox
William P. Cox
Senior Attorney

WPC/msw Enclosures

## Attachment A

**Current Standard Offer Contract in Proposed Format** 

# STANDARD OFFER CONTRACT FOR THE PURCHASE OF CAPACITY AND ENERGY FROM A RENEWABLE ENERGY FACILITY OR A QUALIFYING FACILITY WITH A DESIGN CAPACITY OF 100 KW OR LESS (2023 AVOIDED UNIT)

THIS CHANDADD OFFED COMPDACT (I "C , "") ' I I , I I I I I
THIS STANDARD OFFER CONTRACT (the "Contract") is made and entered this day of
, by and between (herein after "Qualified Seller"
or "QS") a corporation/limited liability company organized and existing under the laws of the State of
and owner of a Renewable Energy Facility as defined in section 25-17.210 (1) F.A.C. or a
Qualifying Facility with a design capacity of 100 KW or less as defined in section 25-17.250, and Florida Power &
Light Company (hereinafter "FPL") a corporation organized and existing under the laws of the State of Florida.
The QS and FPL shall be jointly identified herein as the "Parties". This Contract contains five Appendices;
Appendix A, QS-2 Standard Rate for Purchase of Capacity and Energy; Appendix B, Pay for Performance
Provisions; Appendix C, Termination Fee; Appendix D, Detailed Project Information and Appendix E, contract
options to be selected by QS.

#### WITNESSETH:

WHEREAS, the QS desires to sell and deliver, and FPL desires to purchase and receive, firm capacity and energy to be generated by the QS consistent with the terms of this Contract, Section 366.91, Florida Statutes, and/or Florida Public Service Commission ("FPSC") Rules 25-17.082 through 25-17.091, F.A.C. and FPSC Rules 25-17.200 through 25.17.310.F.A.C.

WHEREAS, the QS has signed an interconnection agreement with FPL (the "Interconnection Agreement"), or it has entered into valid and enforceable interconnection/transmission service agreement(s) with the utility (or those utilities) whose transmission facilities are necessary for delivering the firm capacity and energy to FPL (the "Wheeling Agreement(s)");

WHEREAS, the FPSC has approved the form of this Standard Offer Contract for the Purchase of Firm Capacity and Energy from a Renewable Energy Facility or a Qualifying Facility with a design capacity of 100 KW or less; and

WHEREAS, the Facility is capable of delivering firm capacity and energy to FPL for the term of this Contract in a manner consistent with the provisions of this Contract; and

WHEREAS, Section 366.91(3), Florida Statutes, provides that the "prudent and reasonable costs associated with a QS energy contract shall be recovered from the ratepayers of the contracting utility, without differentiating among customer classes, through the appropriate cost-recovery clause mechanism" administered by the FPSC.

NOW, THEREFORE, for mutual consideration the Parties agree as follows:

(Continued on Sheet No. 9.031)

Issued by: S. E. Romig, Director, Rates and Tariffs

**Effective:** 

(Continued from Sheet No. 9.031)

- (c) If the QS is a REF, the QS shall, on an annual basis and within thirty (30) days after the anniversary date of this Contract and on an annual basis thereafter for the term of this Contract, deliver to FPL a report certified by an officer of the QS: (i) stating the type and amount of each source of fuel or power used by the QS to produce energy during the twelve month period prior to the anniversary date (the "Contract Year"); and (ii) verifying that one hundred percent (100%) of all energy sold by the QS to FPL during the Contract Year complies with Sections 1(a) and (b) of this Contract.
- (d) If the QS is a REF, the QS represents and warrants that the Facility meets the renewable energy requirements of Section 366.91(2)(a) and (b), Florida Statutes, and FPSC Rules 25-17.210(1) and (2),F.A.C., and that the QS shall continue to meet such requirements throughout the term of this Contract. FPL shall have the right at all times to inspect the Facility and to examine any books, records, or other documents of the QS that FPL deems necessary to verify that the Facility meets such requirements.
- (e) The Facility (i) has been certified or has self-certified as a "qualifying facility" pursuant to the Regulations of the Federal Energy Regulatory Commission ("FERC"), or (ii) has been certified by the FPSC as a "qualifying facility" pursuant to Rule 25-17.080(1). A QS that is a qualifying facility with a design capacity of less than 100 KW shall maintain the "qualifying status" of the Facility throughout the term of this Contract. FPL shall have the right at all times to inspect the Facility and to examine any books and records or other documents of the Facility that FPL deems necessary to verify the Facility's qualifying status. On or before March 31 of each year during the term of this Contract, the QS shall provide to FPL a certificate signed by an officer of the QS certifying that the Facility has continuously maintained qualifying status.

#### 2. Term of Contract

Except as otherwise provided herein, this Contract shall become effective immediately upon its execution by the Parties and shall have the termination date stated in Appendix E, unless terminated earlier in accordance with the provisions hereof. Notwithstanding the foregoing, if the Capacity Delivery Date (as defined in Section 5.5) of the Facility is not accomplished by the QS before June 1, 2023, or such later date as may be permitted by FPL pursuant to Section 5 of this Contract, FPL will be permitted to terminate this Contract consistent with the terms herein without further obligations, duties or liability to the QS.

#### 3. Minimum Specifications

Following are the minimum specifications pertaining to this Contract:

- 1. The avoided unit ("Avoided Unit") on which this Contract is based is detailed in Appendix A.
- 2. This offer shall expire on April 1, 2016.
- 3. The date by which firm capacity and energy deliveries from the QS to FPL shall commence is the in-service date of the Avoided Unit (or such later date as may be permitted by FPL pursuant to Section 5 of this contract) unless the QS chooses a capacity payment option that provides for early capacity payments pursuant to the terms of this contract.
- 4. The period of time over which firm capacity and energy shall be delivered from the QS to FPL is as specified in Appendix E; provided, such period shall be no less than a minimum of ten (10) years after the in-service date of the Avoided Unit.
- 5. The following are the minimum performance standards for the delivery of firm capacity and energy by the QS to qualify for full capacity payments under this Contract:

On Peak \* All Hours

Availability 94.0% 94.0%

\* QS Performance and On Peak hours shall be as measured and/or described in FPL's Rate Schedule QS-2 attached hereto as Appendix A

(Continued on Sheet No. 9.032.1)

Issued by: S. E. Romig, Director, Rates and Tariffs Effective:

## Attachment B

**Current Standard Offer Contract in Legislative Format** 

# STANDARD OFFER CONTRACT FOR THE PURCHASE OF CAPACITY AND ENERGY FROM A RENEWABLE ENERGY FACILITY OR A QUALIFYING FACILITY WITH A DESIGN CAPACITY OF 100 KW OR LESS (20192023 AVOIDED UNIT)

THIS STANDARD OFFER CONTRACT (the "Contract") is made and entered this day of
,, by and between (herein after "Qualified Seller"
or "QS") a corporation/limited liability company organized and existing under the laws of the State of
and owner of a Renewable Energy Facility as defined in section 25-17.210 (1) F.A.C. or a
Qualifying Facility with a design capacity of 100 KW or less as defined in section 25-17.250, and Florida Power &
Light Company (hereinafter "FPL") a corporation organized and existing under the laws of the State of Florida.
The QS and FPL shall be jointly identified herein as the "Parties". This Contract contains five Appendices;
Appendix A, QS-2 Standard Rate for Purchase of Capacity and Energy; Appendix B, Pay for Performance
Provisions; Appendix C, Termination Fee; Appendix D, Detailed Project Information and Appendix E, contract
options to be selected by QS.

#### WITNESSETH:

WHEREAS, the QS desires to sell and deliver, and FPL desires to purchase and receive, firm capacity and energy to be generated by the QS consistent with the terms of this Contract, Section 366.91, Florida Statutes, and/or Florida Public Service Commission ("FPSC") Rules 25-17.082 through 25-17.091, F.A.C. and FPSC Rules 25-17.200 through 25.17.310.F.A.C.

WHEREAS, the QS has signed an interconnection agreement with FPL (the "Interconnection Agreement"), or it has entered into valid and enforceable interconnection/transmission service agreement(s) with the utility (or those utilities) whose transmission facilities are necessary for delivering the firm capacity and energy to FPL (the "Wheeling Agreement(s)");

WHEREAS, the FPSC has approved the form of this Standard Offer Contract for the Purchase of Firm Capacity and Energy from a Renewable Energy Facility or a Qualifying Facility with a design capacity of 100 KW or less; and

WHEREAS, the Facility is capable of delivering firm capacity and energy to FPL for the term of this Contract in a manner consistent with the provisions of this Contract; and

WHEREAS, Section 366.91(3), Florida Statutes, provides that the "prudent and reasonable costs associated with a QS energy contract shall be recovered from the ratepayers of the contracting utility, without differentiating among customer classes, through the appropriate cost-recovery clause mechanism" administered by the FPSC.

NOW, THEREFORE, for mutual consideration the Parties agree as follows:

(Continued on Sheet No. 9.031)

Issued by: S. E. Romig, Director, Rates and Tariffs

(Continued from Sheet No. 9.031)

- (c) If the QS is a REF, the QS shall, on an annual basis and within thirty (30) days after the anniversary date of this Contract and on an annual basis thereafter for the term of this Contract, deliver to FPL a report certified by an officer of the QS: (i) stating the type and amount of each source of fuel or power used by the QS to produce energy during the twelve month period prior to the anniversary date (the "Contract Year"); and (ii) verifying that one hundred percent (100%) of all energy sold by the QS to FPL during the Contract Year complies with Sections 1(a) and (b) of this Contract.
- (d) If the QS is a REF, the QS represents and warrants that the Facility meets the renewable energy requirements of Section 366.91(2)(a) and (b), Florida Statutes, and FPSC Rules 25-17.210(1) and (2),F.A.C., and that the QS shall continue to meet such requirements throughout the term of this Contract. FPL shall have the right at all times to inspect the Facility and to examine any books, records, or other documents of the QS that FPL deems necessary to verify that the Facility meets such requirements.
- (e) The Facility (i) has been certified or has self-certified as a "qualifying facility" pursuant to the Regulations of the Federal Energy Regulatory Commission ("FERC"), or (ii) has been certified by the FPSC as a "qualifying facility" pursuant to Rule 25-17.080(1). A QS that is a qualifying facility with a design capacity of less than 100 KW shall maintain the "qualifying status" of the Facility throughout the term of this Contract. FPL shall have the right at all times to inspect the Facility and to examine any books and records or other documents of the Facility that FPL deems necessary to verify the Facility's qualifying status. On or before March 31 of each year during the term of this Contract, the QS shall provide to FPL a certificate signed by an officer of the QS certifying that the Facility has continuously maintained qualifying status.

#### 2. Term of Contract

Except as otherwise provided herein, this Contract shall become effective immediately upon its execution by the Parties and shall have the termination date stated in Appendix E, unless terminated earlier in accordance with the provisions hereof. Notwithstanding the foregoing, if the Capacity Delivery Date (as defined in Section 5.5) of the Facility is not accomplished by the QS before June 1, 2019,2023, or such later date as may be permitted by FPL pursuant to Section 5 of this Contract, FPL will be permitted to terminate this Contract consistent with the terms herein without further obligations, duties or liability to the QS.

#### 3. Minimum Specifications

Following are the minimum specifications pertaining to this Contract:

- 1. The avoided unit ("Avoided Unit") on which this Contract is based is detailed in Appendix A.
- 2. This offer shall expire on April 1, 2015.2016.
- 3. The date by which firm capacity and energy deliveries from the QS to FPL shall commence is the in-service date of the Avoided Unit (or such later date as may be permitted by FPL pursuant to Section 5 of this contract) unless the QS chooses a capacity payment option that provides for early capacity payments pursuant to the terms of this contract.
- 4. The period of time over which firm capacity and energy shall be delivered from the QS to FPL is as specified in Appendix E; provided, such period shall be no less than a minimum of ten (10) years after the in-service date of the Avoided Unit.
- 5. The following are the minimum performance standards for the delivery of firm capacity and energy by the QS to qualify for full capacity payments under this Contract:

On Peak \* All Hours

Availability 94.0% 94.0%

\* QS Performance and On Peak hours shall be as measured and/or described in FPL's Rate Schedule QS-2 attached hereto as Appendix A

(Continued on Sheet No. 9.032.1)

Issued by: S. E. Romig, Director, Rates and Tariffs

## Attachment C

**Proposed Revised Tariff Pages of Rate Schedule QS-2** 

#### APPENDIX II TO RATE SCHEDULE QS-2

#### AVOIDED UNIT INFORMATION

The Company's Avoided Unit has been determined to be a 1,317 MW Greenfield Combined Cycle Unit with an in-service date of June 1, 2023 and a heat rate of 6,293 Btu/kWh.

EXAMPLE STANDARD OFFER CONTRACT AVOIDED CAPACITY PAYMENTS

FOR A CONTRACT TERM OF TEN YEARS FROM THE IN-SERVICE DATE OF THE AVOIDED UNIT

#### (\$/KW/MONTH)

Contract Year		tion A al Capacity		tion B Capacity		otion C ed Capacity		tion D lized Capacity
	Pa	yment	Pay	yment	Pa	yment	Pa	yment
2015	\$	-	\$	-	\$	-	\$	-
2016	\$	-	\$	-	\$	-	\$	-
2017	\$	-	\$	-	\$	-	\$	-
2018	\$	-	\$	-	\$	-	\$	-
2019	\$	-	\$	5.94	\$	-	\$	6.67
2020	\$	-	\$	6.06	\$	-	\$	6.67
2021	\$	-	\$	6.18	\$	-	\$	6.67
2022	\$	-	\$	6.30	\$	-	\$	6.67
2023	\$	9.81	\$	6.43	\$	10.75	\$	6.67
2024	\$	10.01	\$	6.56	\$	10.75	\$	6.67
2025	\$	10.23	\$	6.69	\$	10.75	\$	6.67
2026	\$	10.44	\$	6.82	\$	10.75	\$	6.67
2027	\$	10.66	\$	6.96	\$	10.75	\$	6.67
2028	\$	10.89	\$	7.10	\$	10.75	\$	6.67
2029	\$	11.12	\$	7.24	\$	10.75	\$	6.67
2030	\$	11.36	\$	7.39	\$	10.75	\$	6.67
2031	\$	11.60	\$	7.53	\$	10.75	\$	6.67
2032	\$	11.84	\$	7.68	\$	10.75	\$	6.67
2033	\$	12.10	\$	7.84	\$	10.75	\$	6.67

ESTIMATED AS-AVAILABLE ENERGY COST

For informational purposes, the estimated incremental avoided energy costs for the next ten years are as follows:

#### **Estimated As-Available Energy Cost**

		ore minerally const	
Applicable	On-Peak	Off-Peak	Average
Period	(¢/kWh)	(¢/kWh)	(¢/kWh)
2015	4.50	2.96	3.41
2016	5.68	3.07	3.84
2017	3.31	2.72	2.89
2018	3.67	2.97	3.17
2019	5.59	3.51	4.12
2020	4.98	4.02	4.30
2021	5.58	4.14	4.58
2022	6.35	4.78	5.26
2023	7.02	5.09	5.68
2024	6.29	4.90	5.31
2025	6.35	5.03	5.42

#### ESTIMATED UNIT FUEL COSTS (\$/MMBtu):

The estimated unit fuel costs listed below are for the Company's avoided unit and are based on current estimates:

2023	2024	2025	2026	2027	2028	2029	2030	2031
6.06	6.24	6.43	6.62	6.82	7.02	7.23	7.44	7.66

Issued by: S. E. Romig, Director, Rates and Tariffs

**Effective:** 

		FIXED VALUE OF DEFERRAL PAYMENTS - NORMAL CAPACITY OPTION PARAMETERS	
Where, fo	or a on	e year deferral:	Value
VAC <sub>m</sub>	=	Company's value of avoided capacity and O&M, in dollars per kilowatt per month, during month m;	\$9.81
K	=	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 valued to the middle of the first year;	1.5073
$I_n$	=	total direct and indirect cost, in mid-year dollars per kilowatt including AFUDC but excluding CWIP, of the Company's Avoided Unit with an in-service date of yearn;	\$923.15
$O_n$	=	total fixed operation and maintenance expense, for the year n, in mid-year dollars per kilowatt per year, of the Company's Avoided Unit;	\$27.83
$i_p$	=	annual escalation rate associated with the plant cost of the Company's Avoided Unit;	2.0%
i <sub>o</sub>	=	annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;	2.50%
r	=	annual discount rate, defined as the Company's incremental after-tax cost of capital;	7.510%
L	=	expected life of the Company's Avoided Unit;	30
n	=	year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.	2023
		FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS	
$A_{\rm m}$	=	monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments, in dollars per kilowatt per month;	*
i <sub>p</sub>	=	annual escalation rate associated with the plant cost of the Company's Avoided Unit;	2.0%
i <sub>o</sub>	=	annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;	2.50%
n	=	year for which early capacity payments to a QS are to begin; (at the election of the QS early capacity payments may commence anytime after the actual in-service date of the QS facility and before the anticipated in-service date of the Company's avoided unit)	*
F	=	the cumulative present value of the avoided capital cost component of capacity payments which would have been made had capacity payments commenced with the anticipated in-service date of the Company's Avoided Unit and continued for a period of 10 years;	\$667.11
r	=	annual discount rate, defined as the Company's incremental after-tax cost of capital;	7.514%
t	=	the term, in years, of the Standard Offer Contract for the purchase of firm capacity commencing in the year the QS elects to start receiving early capacity payments prior to the in-service date of the Company's Avoided Unit;	*
G	=	the cumulative present value of the avoided fixed operation and maintenance expense component of capacity payments which would have been made had capacity payments commenced with the anticipated in-service date of the Company's Avoided Unit and continued for a period of 10 years.	\$187.99

Issued by: S. E. Romig, Director, Rates and Tariffs

**Effective:** 

\*From Appendix E

# Attachment D

Proposed Revised Tariff Pages of Rate Schedule QS-2 in Legislative Format

#### APPENDIX II

#### TO RATE SCHEDULE QS-2

#### AVOIDED UNIT INFORMATION

The Company's Avoided Unit has been determined to be a 1,3371.317 MW Greenfield Combined Cycle Unit with an in-service date of June 1, 20192023 and a heat rate of 6,3306,293 Btu/kWh.

# EXAMPLE STANDARD OFFER CONTRACT AVOIDED CAPACITY PAYMENTS FOR A CONTRACT TERM OF TEN YEARS FROM THE IN-SERVICE DATE OF THE AVOIDED UNIT (\$/KW/MONTH)

Contract Year	Option A Normal Capacity Payment	Option B Early Capacity Payment	Option C Levelized Capacity Payment	Option D Early Levelized Capacity Payment
2015	\$ -	\$ <del>2.55</del> -	\$ -	\$ 3.16 <u>-</u>
2016	\$ -	\$ <del>2.63</del> _	\$ -	\$ 3.16-
2017	\$ -	\$ <del>2.70_</del>	\$ -	\$ 3 <del>.16</del> -
2018	\$ -	\$ <del>2.79</del> _	\$ -	\$ 3 <del>.16</del> -
2019	\$ <del>7.65</del> -	\$ 2.87 <u>5.94</u>	\$ 8.69 <u>-</u>	\$ 3.16-6.67
2020	\$ <del>7.88_</del>	\$ 2.96 <u>6.06</u>	\$ 8.69 <u>-</u>	\$ 3.16-6.67
2021	\$ <del>8.10_</del>	\$ 3.04 <u>6.18</u>	\$ 8.69 <u>-</u>	\$ 3.16-6.67
2022	\$ <del>8.34_</del>	\$ 3.14 <u>6.30</u>	\$ 8.69 <u>-</u>	\$ 3.16-6.67
<u>2023</u>	\$ 9.81	\$ 6.43	\$ 10.75	<u>\$ 6.67</u>
<u>2024</u>	<u>\$ 10.01</u>	\$ 6.56	\$ 10.75	<u>\$ 6.67</u>
<del>2023</del> 2025	\$ <u>8.5810.23</u>	\$ <u>3.236.69</u>	\$ 8.69 10.75 \$ 8.69	\$ 3.16- <u>6.67</u>
<del>202</del> 4 <u>2026</u>	\$ <u>8.8310.44</u>	\$ 3.33 <u>6.82</u>	10.75 \$ 8.69	\$ 3 <u>.16</u> 6.67
<del>2025</del> <u>2027</u>	\$ 9.09 <u>10.66</u>	\$ 3.43 <u>6.96</u>	\$\frac{10.75}{8.69}	\$ 3.16-6.67
<del>2026</del> 2028	\$ 9.35 <u>10.89</u>	\$ 3.53 <u>7.10</u>	<u>10.75</u>	\$ 3.16-6.67
<del>2027</del>	<del>\$ 9.62</del>	\$ 3.63	\$ 8.69	<del>\$ 3.16</del>
<del>2028</del>	\$ 9.90	\$ 3.74	\$ 8.69 \$ 8.69	\$ 3.16
2029	\$ <u>10.1911.12</u>	\$ 3.86 <u>7.24</u>	10.75	\$ 3.16-6.67
<u>2030</u>	\$ 11.36	\$ 7.39	\$ 10.75	\$ 6.67
<u>2031</u>	\$ 11.60	\$ 7.53	\$ 10.75	\$ 6.67
<u>2032</u>	\$ 11.84	\$ 7.68	\$ 10.75	\$ 6.67
<u>2033</u>	\$ 12.10	\$ 7.84	\$ 10.75	\$ 6.67

#### ESTIMATED AS-AVAILABLE ENERGY COST

For informational purposes, the estimated incremental avoided energy costs for the next ten years are as follows:

	Estimated As-Available	Energy Cost	
Applicable	On-Peak	Off-Peak	Average
Period	$(\phi/kWh)$	(¢/kWh)	(¢/kWh)
<del>2014</del>	<del>-6.97</del>	<del>-2.60</del>	<del>-3.75</del>
2015	<del>7.82</del> 4.50	<del>2.28</del> 2.96	<del>3.73</del> 3.41
2016	<del>10.21</del> 5.68	<del>3.38</del> <u>3.07</u>	<del>5.17</del> <u>3.84</u>
2017	<del>7.6</del> 4 <u>3.31</u>	<del>2.30</del> 2.72	<del>3.70</del> 2.89
2018	<del>6.79</del> 3.67	<del>3.28</del> <u>2.97</u>	4 <del>.20</del> 3.17
2019	<del>8.13</del> <u>5.59</u>	<del>2.65</del> 3.51	<del>4.08</del> <u>4.12</u>
2020	<del>7.85</del> <u>4.98</u>	<del>2.92</del> 4.02	<del>4.23</del> <u>4.30</u>
2021	<del>7.09</del> <u>5.58</u>	<del>3.19</del> 4.14	4 <u>.23</u> 4 <u>.58</u>
2022	<del>9.29</del> <u>6.35</u>	<del>2.63</del> 4.78	4 <u>.39</u> 5.26

Issued by: S. E. Romig, Director, Rates and Tariffs

#### FLORIDA POWER & LIGHT COMPANY

2023	<del>10.42</del> <u>7.02</u>	<del>2.83</del> <u>5.09</u>	<del>4.84</del> <u>5.68</u>
2024	<del>10.17</del> <u>6.29</u>	<u>3.084.90</u>	4 <del>.96</del> 5.31
<u>2025</u>	<u>6.35</u>	<u>5.03</u>	<u>5.42</u>

#### ESTIMATED UNIT FUEL COSTS (\$/MMBtu):

The estimated unit fuel costs listed below are for the Company's avoided unit and are based on current estimates:

201 9	202 0	202 1	202 2	202 3	202 4	202 5	202 6	202 7	<u>202</u> <u>8</u>	<u>202</u> <u>9</u>	<u>203</u> <u>0</u>	<u>203</u> <u>1</u>
6.15	6.31	<del>6.41</del>	<del>6.62</del>	6.93 6.06	7.34 6.24	<del>7.65</del> 6.43	<del>7.96</del> 6.62	8.26 6.82	7.02	7.23	7.44	7.66

Issued by: S. E. Romig, Director, Rates and Tariffs

Company's value of avoided capacity and O&M, in dollars per kilowatt per month, during month m;  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 valued to the middle of the first year;  total direct and indirect cost, in mid-year dollars per kilowatt including AFUDC but excluding CWIP, of the Company's Avoided Unit with an in-service date of yearn; total fixed operation and maintenance expense, for the year n, in mid-year dollars per kilowatt per year, of the Company's Avoided Unit;  annual escalation rate associated with the plant cost of the Company's Avoided Unit;  annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity is dellarate in the latence hillowed the capacity.	Value \$7.659.81 1.40441.5073 \$903.36923.15 \$18.0627.83 3.02.0% 2.50% 7.547.510% 30 20192023
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 valued to the middle of the first year;  total direct and indirect cost, in mid-year dollars per kilowatt including AFUDC but excluding CWIP, of the Company's Avoided Unit with an in-service date of yearn; total fixed operation and maintenance expense, for the year n, in mid-year dollars per kilowatt per year, of the Company's Avoided Unit;  annual escalation rate associated with the plant cost of the Company's Avoided Unit;  annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS elects to start receiving early capacity payments to the payments and assument to the paid at the middle and assument to the paid at the middle and assument to the paid at the middle and assum	1.40441.5073 \$903.36923.15 \$18.0627.83 3.02.0% 2.50% 7.547.510% 30 20192023
charges computed using average annual rate base and assumed to be paid at the middle of each year and present valued to the middle of the first year;  total direct and indirect cost, in mid-year dollars per kilowatt including AFUDC but excluding CWIP, of the Company's Avoided Unit with an in-service date of yearn; total fixed operation and maintenance expense, for the year n, in mid-year dollars per kilowatt per year, of the Company's Avoided Unit;  annual escalation rate associated with the plant cost of the Company's Avoided Unit;  annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to be made to the QS starting on the year the QS elects to start receiving early capacity payments to the payments to the payments and assume the payments are part of the payment and payments are payments and payments and payments are payments and payments are payments and payments are payments and pay	\$903.36923.15 \$18.0627.83 3.02.0% 2.50% 7.547.510% 30
of the Company's Avoided Unit with an in-service date of yearn; total fixed operation and maintenance expense, for the year n, in mid-year dollars per kilowatt per year, of the Company's Avoided Unit;  annual escalation rate associated with the plant cost of the Company's Avoided Unit;  annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	\$\frac{18.06}{27.83}\\ \frac{3.02.0}{6}\\ \frac{2.50}{6}\\ \frac{7.54}{7.510}\\ \frac{30}{6}\\ \frac{20192023}{6}\\ \frac{20192023}{6}\\ \frac{1.50}{6}\\ \frac
per kilowatt per year, of the Company's Avoided Unit; annual escalation rate associated with the plant cost of the Company's Avoided Unit; annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit; annual discount rate, defined as the Company's incremental after-tax cost of capital; expected life of the Company's Avoided Unit; year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	3.02.0% 2.50% 7.547.510% 30 20192023
annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	2.50%  7.547.510%  30  20192023
Company's Avoided Unit;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	7.54 <u>7.510</u> % 30 20192023
expected life of the Company's Avoided Unit;  year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	30 20192023
year for which the Company's Avoided Unit is deferred starting with its original anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	<del>2019</del> 2023
anticipated in-service date and ending with the termination of the Standard Offer Contract.  FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS  monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	
monthly capacity payments to be made to the QS starting on the year the QS elects to start receiving early cap	acity *
	acity *
payments, in dollars per kilowatt per month;	acity
annual escalation rate associated with the plant cost of the Company's Avoided Unit;	<del>3.0</del> 2.0%
annual escalation rate associated with the operation and maintenance expense of the Company's Avoided Unit;	2.50%
year for which early capacity payments to a QS are to begin; (at the election of the QS early capacity payment may commence anytime after the actual in-service date of the QS facility and before the anticipated in-service date of the Company's avoided unit)	* *
the cumulative present value of the avoided capital cost component of capacity payments which would have been made had capacity payments commenced with the anticipated in-service date of the Company's Avoided Unit and continued for a period of 10 years;	\$ <del>569.45</del> <u>667.11</u>
annual discount rate, defined as the Company's incremental after-tax cost of capital;	<del>7.54</del> <u>7.514</u> %
the term, in years, of the Standard Offer Contract for the purchase of firm capacity commencing in the year the QS elects to start receiving early capacity payments prior to the in-service date of the Company's Avoided Unit;	*
the cumulative present value of the avoided fixed operation and maintenance expense component of capacity payments which would have been made had capacity payments commenced with the anticipated in-service	
date of the Company's Avoided Unit and continued for a period of 10 years	
	which would have been made had capacity payments commenced with the anticipated in-service date of the Company's Avoided Unit and continued for a period of 10 years;  annual discount rate, defined as the Company's incremental after-tax cost of capital;  the term, in years, of the Standard Offer Contract for the purchase of firm capacity commencing in the year the QS elects to start receiving early capacity payments prior to the in-service date of the Company's Avoided Unit;  the cumulative present value of the avoided fixed operation and maintenance expense component of capacity

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