

## FILED 5/23/2018 DOCUMENT NO. 03821-2018 FPSC - COMMISSION CLERK

## **Public Service Commission**

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD TALLAHASSEE, FLORIDA 32399-0850

## -M-E-M-O-R-A-N-D-U-M-

205

DATE: May 23, 2018

- **TO:** Office of Commission Clerk (Stauffer)
- **FROM:** Division of Engineering (Wooten, Ellis, Wright) **FW** Division of Economics (Wu) **IN** Office of the General Counsel (Murphy)
- **RE:** Docket No. 20180073-EQ Petition for approval of amended standard offer contract (Schedule COG-2) based on a combustion turbine avoided unit, by Duke Energy Florida, LLC.
- AGENDA: 06/05/18 Regular Agenda Proposed Agency Action Interested Persons May Participate

COMMISSIONERS ASSIGNED: All Commissioners

PREHEARING OFFICER: Administrative

CRITICAL DATES: None

**SPECIAL INSTRUCTIONS:** Staff recommends the Commission simultaneously consider Docket Nos. 20180073-EQ, 20180081-EQ, 20180082-EQ, 20180083-EQ, and 20180091-EQ.

### Case Background

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 small qualifying facilities. Florida Public Service Commission (Commission) Rules 25-17.200 through 25-17.310, Florida Administrative Code (F.A.C.), implement the statute and require each IOU to file with the Commission, by April 1 of each year, a standard offer contract based on the next avoidable fossil fueled generating unit of each technology type identified in the Utility's current Ten-Year Site Plan. On March 29, 2018, Duke Energy Florida, Inc. (DEF) filed a petition for approval of its amended standard offer contract and rate schedule COG-2 based on its 2018 Ten-Year Site Plan.

DEF uses a value that is filed with the Federal Energy Regulatory Commission (FERC) every year on May 1 as a component of the delivery voltage adjustment factors found on Sheet 9.458 of its standard offer contract. While this value has historically been available for DEF's standard offer contract filing, this year the value was calculated after the April 1 filing deadline. On May 8, 2018, DEF provided revisions to Sheet 9.458 containing updated delivery voltage adjustment factors reflecting the newly calculated value filed with FERC.<sup>1</sup> On May 16, 2018, DEF also filed revisions to Sheet 9.415 correcting the cost of the avoided unit's variable operation and mantenance from 0.0931 cents per killowatt-hour (e/kWh) to 0.931 e/kWh.

In addition to the above revisions, DEF's standard offer contract and rate schedule COG-2 include updates to avoided unit specifications, calendar dates, and a monthly capacity payment example and its accompanying capacity payment parameters. Also included are typographical corrections, updates to position titles, and a change to DEF's name from Duke Energy Florida, Inc., to Duke Energy Florida, LLC.

The Commission has jurisdiction over this standard offer contract pursuant to Sections 366.04 through 366.06 and 366.91, F.S.

<sup>&</sup>lt;sup>1</sup>Document No. 03571-2018, filed May 8, 2018, in Docket No. 20180073-EQ.

## Discussion of Issues

**Issue 1:** Should the Commission approve the amended standard offer contract and associated rate schedule COG-2 filed by Duke Energy Florida?

**Recommendation:** Yes. The provisions of DEF's amended standard offer contract and associated rate schedule COG-2, as filed on March 29, 2018, and as modified by the revisions to Sheet 9.458 filed on May 8, 2018, and Sheet 9.415 filed on May 16, 2018, conform to all requirements of Rules 25-17.200 through 25-17.310, F.A.C. The amended 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. (Wright)

**Staff Analysis:** Rule 25-17.250, F.A.C., requires that DEF, an IOU, continuously make available a standard offer contract for the purchase of firm capacity and energy from renewable generating facilities (RF) and small qualifying facilities (QF) with design capacities of 100 kilowatts (kW) or less. Pursuant to Rule 25-17.250(1) and (3), F.A.C., the standard offer contract must provide a term of at least 10 years, and the payment terms must be based on the Utility's next avoidable fossil-fueled generating unit identified in its most recent Ten-Year Site Plan or, if no avoided unit is identified, its next avoidable planned purchase. DEF has identified a 226 megawatt (MW) natural gas-fueled combustion turbine (CT) as its next planned generating unit in its 2018 Ten-Year Site Plan. The projected in-service date of the unit is June 1, 2027.

Under DEF's standard offer contract, the RF/QF operator commits to certain minimum performance requirements based on the identified avoided unit, such as being operational and delivering an agreed upon amount of capacity by the in-service date of the avoided unit, and thereby becomes eligible for capacity payments in addition to payments received for energy. The standard offer contract may also serve as a starting point for negotiation of contract terms by providing payment information to an RF/QF operator, in a situation where one or both parties desire particular contract terms other than those established in the standard offer.

In order to promote renewable generation, the Commission requires each IOU to offer multiple options for capacity payments, including the options to receive early or levelized payments. If the RF/QF operator elects to receive capacity payments under the normal or levelized contract options, it will receive as-available energy payments only until the in-service date of the avoided unit (in this case June 1, 2027), and thereafter begin receiving capacity payments in addition to the energy payments. If either the early or early levelized option is selected, then the operator will begin receiving capacity payments earlier than the in-service date of the avoided unit. However, payments made under the early capacity payments options tend to be lower in the later years of the contract term because the net present value (NPV) of the total payments must remain equal for all contract payment options.

Table 1 below contains estimates of the annual payments for each payment option available under the amended standard offer contract to an operator with a 50 MW renewable facility operating at a capacity factor of 95 percent, which is the minimum capacity factor required under the contract to qualify for full capacity payments. Normal and levelized capacity payments begin in 2027, reflecting the projected in-service date of the avoided unit (June 1, 2027).

	Energy		Capacity Paym	ent (By Type)	
Year	Energy Payment	Normal	Levelized	Early	Early Levelized
	\$(000)	\$(000)	\$(000)	\$(000)	\$(000)
2019	8,553	-	-	-	-
2020	6,683	-	-	-	-
2021	5,323	-	-	-	-
2022	5,589	-	-	-	-
2023	6,343	-	-	-	-
2024	7,655	-	-	-	-
2025	9,068	-	-	2,157	2,455
2026	10,200	-	-	2,211	2,459
2027	11,473	1,695	1,906	2,266	2,462
2028	12,305	2,978	3,272	2,323	2,466
2029	13,014	3,053	3,277	2,381	2,470
2030	13,993	3,129	3,282	2,441	2,474
2031	14,108	3,207	3,287	2,502	2,478
2032	14,427	3,288	3,293	2,564	2,482
2033	15,380	3,370	3,298	2,628	2,486
2034	16,430	3,454	3,304	2,694	2,491
2035	16,682	3,540	3,310	2,761	2,495
2036	18,141	3,629	3,316	2,830	2,500
2037	18,727	3,720	3,322	2,901	2,504
2038	20,057	3,813	3,328	2,974	2,509
Total	244,151	38,875	38,195	35,632	34,731
NPV (2018\$)	114,628	14,718	14,718	14,718	14,718

# Table 1 – Estimated Annual Payments to a 50 MW Renewable Facility(95% Capacity Factor)

Source: DEF's response to staff's first data request.<sup>2</sup>

The type-and-strike format versions of the amended standard offer contract and associated rate schedule COG-2, including the most recent revisions to Sheet 9.458 filed on May 8, 2018, and Sheet 9.415 filed on May 16, 2018, are included as Attachment A to this recommendation. All of the changes made to DEF's tariff sheets are consistent with the updated avoided unit. Revisions include updates to avoided unit specifications, calendar dates, and a monthly capacity payment example and its accompanying capacity payment parameters. Also revised are delivery voltage adjustment factors reflecting DEF's 2017 line loss analysis. In addition, there are a number of

Issue 1

<sup>&</sup>lt;sup>2</sup>Document No. 03325-2018, filed April 30, 2018, in Docket No. 20180073-EQ.

unsubstantial changes including typographical corrections, updates to position titles, and a change to DEF's name from Duke Energy Florida, Inc., to Duke Energy Florida, LLC.

### Conclusion

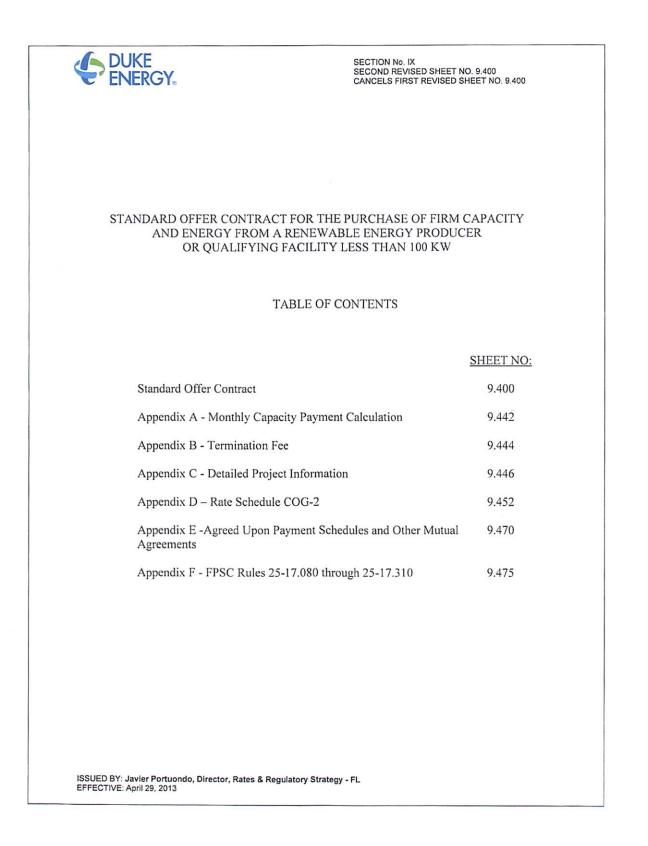
The provisions of DEF's amended standard offer contract and associated rate schedule COG-2, as filed on March 29, 2018, and as modified by the revisions to Sheet 9.458 filed on May 8, 2018, and Sheet 9.415 filed on May 16, 2018, conform to all requirements of Rules 25-17.200 through 25-17.310, F.A.C. The amended 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. Staff recommends that the revisions to the rate schedule and standard offer contract be approved.

**Issue 2:** Should this docket be closed?

**Recommendation:** Yes. This docket should be closed upon issuance of a consummating order, unless a person whose substantial interests are affected by the Commission's decision files a protest within 21 days of the issuance of the Commission's Proposed Agency Action Order. Potential signatories should be aware that, if a timely protest is filed, DEF's standard offer contract may subsequently be revised. (Murphy)

**Staff Analysis:** This docket should be closed upon the issuance of a consummating order, unless a person whose substantial interests are affected by the Commission's decision files a protest within 21 days of the issuance of the Commission's Proposed Agency Action Order. Potential signatories should be aware that, if a timely protest is filed, DEF's standard offer contract may subsequently be revised.

Attachment A Page 1 of 71



Attachment A Page 2 of 71

	SECTION NO. IX FIRST- <u>SECOND</u> REVISED SHEET NO. 9.401 CANCELS ORIGINAL- <u>FIRST</u> SHEET NO. 9.401
STANDARD OFFER	CONTRACT FOR THE PURCHASE OF FIRM CAPACITY
AND ENERG	Y FROM A RENEWABLE ENERGY PRODUCER ALIFYING FACILITY LESS THAN 100 KW
	between
-	and
	DUKE ENERGY FLORIDA <u>. LLC</u>
ISSUED BY: Javier Portuondo, <u>Manac</u> EFFECTIVE: April-29, 2013	ging Director, Rates & Regulatory Strategy - FL

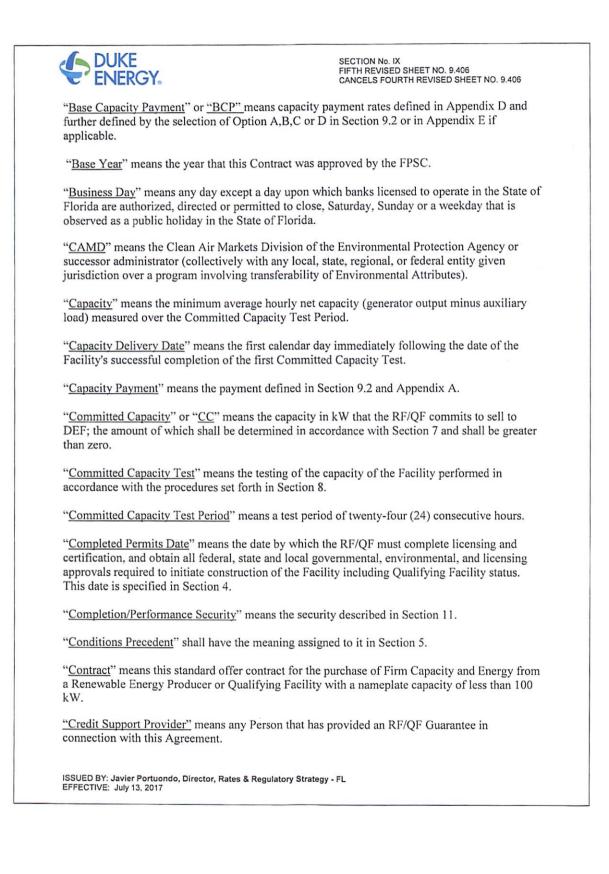
	SECTION NO. IX SECOND REVISED SHEET NO.9.402 CANCELS FIRST REVISED SHEET NO. 9.402
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ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: April 29, 2013

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ISSUED BY: Javier Portuondo, Director, Rates & Reg EFFECTIVE: July 10, 2014	ulatory Strategy - FL

DUKE ENERGY. SECTION NO. IX FOURTH FIFTH REVISED SHEET NO. 9.404 CANCELS THIRD FOURTH REVISED SHEET NO. 9 404 STANDARD OFFER CONTRACT FOR THE PURCHASE OF FIRM CAPACITY AND ENERGY FROM A RENEWABLE ENERGY PRODUCER OR QUALIFYING FACILITY LESS THAN 100 KW THIS STANDARD OFFER CONTRACT FOR THE PURCHASE OF FIRM CAPACITY AND ENERGY (hereinafter referred to as the "Contract") is made and entered this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_ (hereinafter referred to as the "Execution Date"), by and the Renewable Energy between (hereinafter Provider/Qualifying Facility ("RF/QF"), and Duke Energy Florida,-ILLCne. d/b/a Duke Energy (hereinafter "DEF"), a private utility corporation organized and existing under the laws of the State of Florida. The RF/QF and DEF shall be individually identified herein as the "Party" and collectively as the "Parties". This Contract contains six Appendices which are incorporated into and made part of this Contract: Appendix A: Monthly Capacity Payment Calculation; Appendix B: Termination Fee; Appendix C: Detailed Project Information; Appendix D: Rate Schedule COG-2; Appendix E: Agreed Upon Payment Schedules and Other Mutual Agreements; and Appendix F: Florida Public Service Commission ("FPSC") Rules 25-17.080 through 25-17.310, F.A.C. WITNESSETH: WHEREAS, the RF/QF desires to sell, and DEF desires to purchase electricity to be generated by the RF/QF consistent with Florida Statutes 366.91 (2006) and FPSC Rules 25-17.080 through 25-17.310 F.A.C.; and WHEREAS, the RF/QF will acquire an interconnection/transmission service agreement with the utility in whose service territory the Facility is to be located, pursuant to which the RF/QF assumes contractual responsibility to make any and all transmission-related arrangements (including ancillary services) between the RF/QF and the Transmission Provider for delivery of the Facility's firm capacity and energy to DEF. The Parties recognize that the Transmission Provider may be DEF and that the transmission service will be provided under a separate agreement; and WHEREAS, the FPSC has approved this Contract for the Purchase of Firm Capacity and Energy from a Renewable Energy Producer; and WHEREAS, the RF/QF guarantees that the Facility is capable of delivering firm capacity and energy to DEF for the term of this Contract in a manner consistent with the provision of this Contract; NOW, THEREFORE, for mutual consideration the Parties agree as follows: ISSUED BY: Javier Portuondo, Managing Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 13, 2017

DUKE ENERGY.	SECTION NO. IX SECOND REVISED SHEET NO. 9.405 CANCELS FIRST REVISED SHEET NO. 9.405
1. Definitions	
"AFR" means the Facility's annual fuel requir	rement.
"AFTR" means the Facility's annual fuel trans	sportation requirement
"Annual Capacity Billing Factor" or "ACBF" Availability Factor as further defined and expl	means 12 month rolling average of the Monthly lained in Appendix A.
	ibits, and attachments which are appended hereto d made a part of this Contract. Such Appendices
" <u>Appendix A</u> " sets forth the Monthly C " <u>Appendix B</u> " sets forth the Termination " <u>Appendix C</u> " sets forth the Detailed P	on Fee.
" <u>Appendix D</u> " sets forth Rate Schedule " <u>Appendix E</u> " sets forth the Agree Agreements	e COG-2. ed Upon Payment Schedules and Other Mutual
" <u>Appendix F</u> " sets forth Florida Publi through 25-17.310, F.A.C.	ic Service Commission ("FPSC") Rules 25-17.080
	alculated by DEF in accordance with FPSC Rule COG-1, as they may each be amended from time
"Authorization to Construct" means authorizat Agency to construct or reconstruct the Facility the State of Florida and any relevant federal la	granted to RF/QF in accordance with the laws of
"Avoided Unit" means the electrical generatin Contract is based.	g unit described in Section 4 upon which this
"Avoided Unit Energy Cost" has the meaning	assigned to it in Appendix D.
"Avoided Unit Fuel Cost" has the meaning ass	signed to it in Appendix D.
"Avoided Unit Heat Rate" means the average Section 4.	annual heat rate of the Avoided Unit as defined in
"Avoided Unit In-Service Date" means the dat started commercial operation as specified in Security 2015	te upon which the Avoided Unit would have ection 4.
"Avoided Unit Life" means the economic life	of the Avoided Unit.
	oided Unit variable operation and maintenance escalation will begin in the payment for January
ISSUED BY: Javier Portuondo, Director, Rates & Regulator EFFECTIVE: April 29, 2013	y Strategy - FL





SECTION No. IX FOURTH REVISED SHEET NO. 9.407 CANCELS THIRD REVISED SHEET NO. 9.407

"<u>Creditworthy</u>" with respect to a Party or its Credit Support Provider, as applicable, means a party is rated at least BBB by Standard & Poor's (S&P), or at least Baa3 by Moody's Investor Services (Moody's). Rating shall be the unsecured, senior long-term debt rating (not supported by third party credit enhancement) or the issuer rating will be used if not available. If a Party or its Credit Support Provider, as applicable, is rated by both S&P and Moody's, then the lower of the two ratings will apply.

"DEF" has the meaning assigned to it in the opening paragraph of this Contract.

"DEF Entities" has the meaning assigned to it in Section 16.

"Demonstration Period" means a sixty-hour period in which the Committed Capacity Test must be completed.

"Distribution System" means the distribution system consisting of electric lines, electric plant, transformers and switchgear used for conveying electricity to ultimate consumers, but not including any part of the Transmission System.

"Dispute" shall have the meaning assigned to it in Section 20.9.

"<u>Drop Dead Date</u>" means the date which is twelve (12) months following the Execution Date except for the condition defined in Section 5(a)(i). The Parties recognize that firm transmission service agreements can take up to 24 months to obtain so for Section 5(a)(i) only the Drop Dead Date means the date which is twenty four (24) months following the Execution Date.

"Eastern Prevailing Time" or "EPT" means the time in effect in the Eastern Time Zone of the Unites States of America, whether Eastern Standard Time or Eastern Daylight Savings Time.

"Effective Date" has the meaning assigned to it in Section 5.

"Electrical Interconnection Point" means the physical point at which the Facility is connected with the Transmission System or, if RF/QF interconnects with a Transmission System other than DEF's, DEF's interconnection with the Transmission Provider's Transmission System, or such other physical point on which RF/QF and DEF may agree.

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: June 9, 2016



SECTION No. IX FIFTH REVISED SHEET NO. 9.408 CANCELS FOURTH REVISED SHEET NO. 9.408

"<u>Eligible Collateral</u>" means (i) a Letter of Credit from a Qualified Institution or (ii) cash deposit provided to DEF by RF/QF or a combination of (i), and/or (ii) as outlined in Section 11.

"<u>Energy</u>" means megawatt-hours generated by the Facility of the character commonly known as three-phase, sixty hertz electric energy that is delivered at a nominal voltage at the Electrical Interconnection Point.

"Environmental Attributes" or "EA" means all attributes of an environmental or other nature that are created or otherwise arise from the Facility's generation of electricity from a renewable energy source in contrast with the generation of electricity using nuclear or fossil fuels or other traditional resources. Forms of such attributes include, without limitation, any and all environmental air quality credits, green credits, renewable energy credits ("RECs"), carbon credits, emissions reduction credits, certificates, tags, offsets, allowances, or similar products or rights, howsoever entitled, (i) resulting from the avoidance of the emission of any gas, chemical, or other substance, including but not limited to, mercury, nitrogen oxide, sulfur dioxide, carbon dioxide, carbon monoxide, particulate matter or similar pollutants or contaminants of air, water or soil gas, chemical, or other substance, and (ii) attributable to the generation, purchase, sale or use of Energy from or by the Facility, or otherwise attributable to the Facility during the Term. Environmental Attributes include, without limitation, those currently existing or arising during the Term under local, state, regional, federal, or international legislation or regulation relevant to the avoidance of any emission described in this Contract under any governmental, regulatory or voluntary program, including, but not limited to, the United Nations Framework Convention on Climate Change and related Kyoto Protocol or other programs, laws or regulations involving or administered by the Clean Air Markets Division of the Environmental Protection Agency ("CAMD") or successor administrator (collectively with any local, state, regional, or federal entity given jurisdiction over a program involving transferability of Environmental Attributes,).

"Event of Default" has the meaning assigned to it in Section 14.

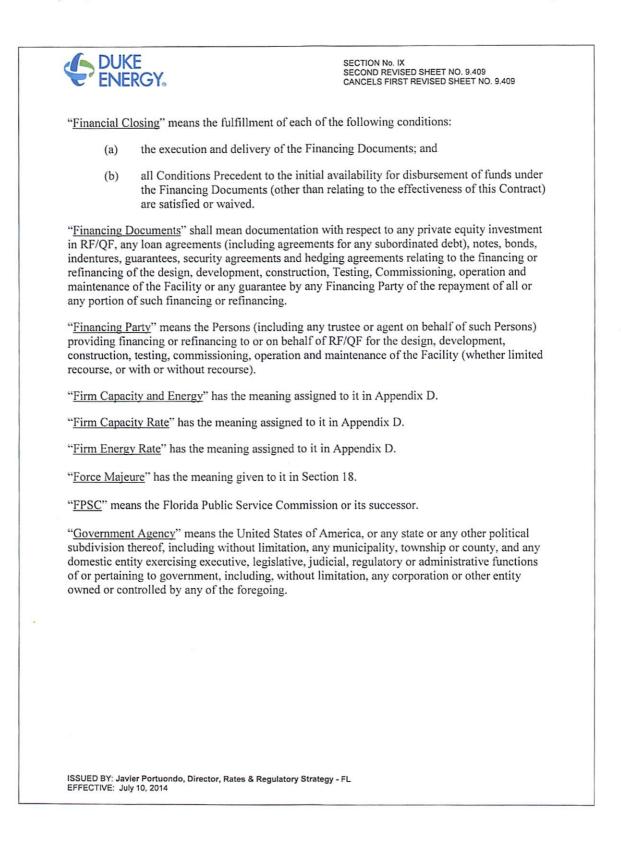
"Execution Date" has the meaning assigned to it in the opening paragraph of this Contract.

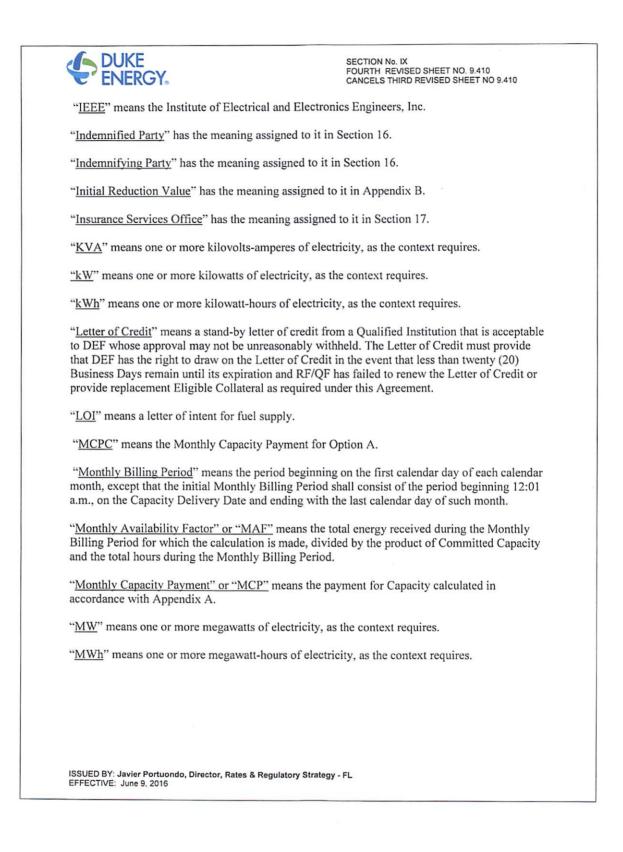
"Exemplary Early Capacity Payment Date" means the exemplary date used to calculate Capacity Payments for Option B and D. This date is specified in Section 4. The actual Capacity Payments for Option B and D will be calculated based upon the Required Capacity Delivery Date.

"Expiration Date" means the final date upon which this Contract can be executed. This date is specified in Section 4.

"<u>Facility</u>" means all equipment, as described in this Contract, used to produce electric energy and, and all equipment that is owned or controlled by the RF/QF required for parallel operation with the Transmission System. In the case of a cogenerator the Facility includes all equipment that is owned or controlled by the RF/QF to produce useful thermal energy through the sequential use of energy.

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 13, 2017





SECTION No. IX SECOND REVISED SHEET NO. 9.411 CANCELS FIRST REVISED SHEET NO. 9.411 "Option A" means normal Capacity Payments as described in Appendix D. "Option B" means early Capacity Payments as described in Appendix D. "Option C" means levelized Capacity Payments as described in Appendix D. "Option D" means early levelized Capacity Payments as described in Appendix D. "Party" or "Parties" has the meaning assigned to it in the opening paragraph of this Contract. "Person" means any individual, partnership, corporation, association, joint stock company trust, joint venture, unincorporated organization, or Governmental Agency (or any department, agency, or political subdivision thereof). "Project Consents" mean the following Consents, each of which is necessary to RF/QF for the fulfillment of RF/QF's obligations hereunder: (a) the Authorization to Construct: (b) planning permission and consents in respect of the Facility, and any electricity substation located at the Facility site, including but not limited to, a prevention of significant deterioration permit, a noise, proximity and visual impact permit, and any required zoning permit; and (c) any integrated pollution control license. "Project Contracts" means this Contract, and any other contract required to construct, operate and maintain the Facility. The Project Contracts may include, but are not limited to, the turnkey engineering, procurement and construction contract, the electrical interconnection and operating agreement, the fuel supply agreement, the facility site lease, and the operation and maintenance agreement. "Prudent Utility Practices" means any of the practices, methods, standards and acts (including, but not limited to, the practices, methods and acts engaged in or approved by a significant portion of owners and operators of power plants of technology, complexity and size similar to the Facility in the United States) that, at a particular time, in the exercise of reasonable judgment in light of the facts known or that should reasonably have been known at the time a decision was made, could have been expected to accomplish the desired result and goals (including such goals as efficiency, reliability, economy and profitability) in a manner consistent with applicable facility design limits and equipment specifications and applicable laws and regulations. Prudent Utility Practice is not intended to be limited to the optimum practice, method or act to the exclusion of all others, but rather to be a spectrum of acceptable practices, methods or acts in each case taking into account the Facility as an independent power project. ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 21, 2015

SECTION No. IX FOURTH REVISED SHEET NO. 9.412 CANCELS THIRD REVISED SHEET NO. 9.412

"<u>Qualifying Facility</u>" or "<u>QF</u>" means a cogenerator, small power producer, or non-utility generator that has been certified or self-certified by the FERC as meeting certain ownership, operating and efficiency criteria established by the Federal Energy Regulatory Commission pursuant to the Public Utility Regulatory Policies Act of 1978 ("PURPA"), the criteria for which are currently set forth in 18 C.F.R. § 292, *et seq.* (2006), Section 210 of PURPA, 16 U.S.C. § 824a-3 (2005), 16 U.S.C. 796 *et seq.* (2006), and Section 1253 of EPAct 2005, Pub. L. No. 109-58, § 1253, 119 Stat. 594 (2005) or, alternatively, analogous provisions under the laws of the State of Florida.

"Qualified Institution" means the domestic office of a United States commercial bank or trust company or the United States branch of a foreign bank having total assets of at least ten billion dollars (\$10,000,000,000) (which is not an affiliate of either party) and a general long-term senior unsecured debt rating of A- or higher (as rated by Standard & Poor's Ratings Group), or A3 or higher (as rated by Moody's Investor Services).

"<u>Rate Schedule COG-1</u>" means DEF's Agreement for Purchase of As-Available Energy and/or Parallel Operation with a Qualifying Facility as approved by the FPSC and as may be amended from time to time.

"<u>REC</u>" means renewable energy credits, green tags, green tickets, renewable certificates, tradable renewable energy credits ("T-REC") or any tradable certificate that is produced by a renewable generator in addition to and in proportion to the production of electrical energy.

"Reduction Value" has the meaning assigned to it in Appendix B.

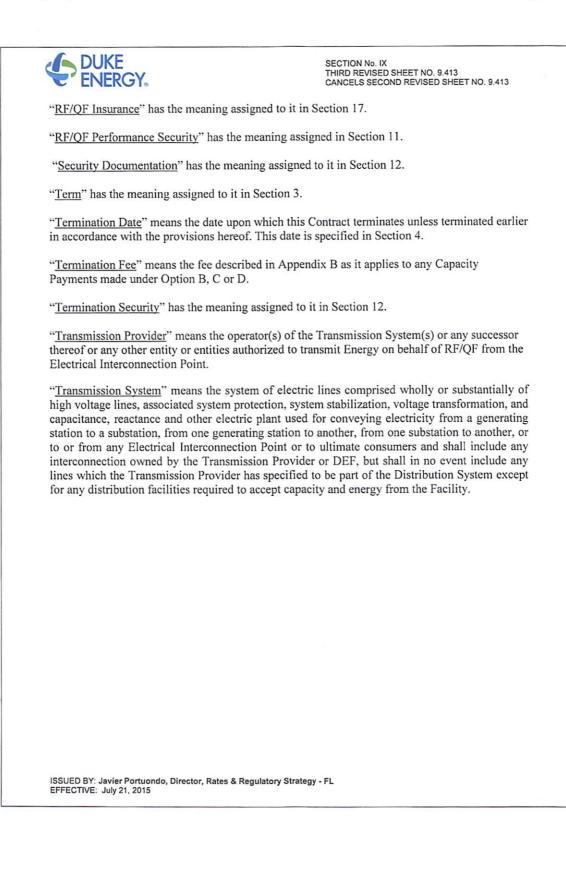
"Remedial Action Plan" has the meaning assigned to it in Section 20.3.

"<u>Renewable Facility</u>" or "<u>RF/QF</u>" means an electrical generating unit or group of units at a single site, interconnected for synchronous operation and delivery of electricity to an electric utility, where the primary energy in British Thermal Units used for the production of electricity is from one or more of the following sources: hydrogen produced from sources other than fossil fuels, biomass, solar energy, geothermal energy, wind energy, ocean energy, hydroelectric power or waste heat from a commercial or industrial manufacturing process.

"<u>Required Capacity Deliver Date</u>" means the date specified in Appendix E. In the event that no Required Capacity Delivery Date is specified in Appendix E then the RF/QF shall achieve the Capacity Delivery Date on or before the Avoided Unit In-Service Date

"RF/QF Entities" has the meaning assigned to it in Section 16.

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 13, 2017



Facility; Renewable Facility or Qualifying Faci	lity Status
'he Facility's location and generation capabilities are as d	lescribed in Table 1 below.
TABLE 1	
TECHNOLOGY AND GENERATO	OR CAPABILITIES
Location: Specific legal description (e.g., metes and bou other legal description with street address required)	nds or City: County:
Generator Type (Induction or Synchronous)	
Technology	
Fuel Type and Source	
Generator Rating (KVA)	
Maximum Capability (kW)	
Net Output (kW)	
Power Factor (%)	
Operating Voltage (kV)	
Peak Internal Load kW	

The RF/QF's failure to complete Table 1 in its entirety shall render this Contract null and void and of no further effect.

The RF/QF shall use the same fuel or energy source and maintain the status as a Renewable Facility or a Qualifying Facility throughout the term of this Contract. RF/QF shall at all times keep DEF informed of any material changes in its business which affects its Renewable Facility or Qualifying Facility status. DEF and RF/QF shall have the right, upon reasonable notice of not less than seven (7) Business Days, to inspect the Facility and to examine any books, records, or other documents reasonably deemed necessary to verify compliance with this Contract. In the event of an emergency at or in proximity to the RF/QF site that impacts DEF's system, DEF shall make reasonable efforts to contact the Facility and make arrangements for an emergency inspection. On or before March 31 of each year during the term of this Contract, the RF/QF shall provide to DEF a certificate signed by an officer of the RF/QF certifying that the RF/QF continuously maintained its status as a Renewable Facility or a Qualifying Facility during the prior calendar year.

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: April 29, 2013

## 

SECTION No. IX ELEVENTH-TWELFTH REVISED SHEET NO. 9.415 CANCELS TENTH-ELEVENTH SHEET NO. 9.415

### 3. Term of Contract

Except as otherwise provided herein, this Contract shall become effective immediately upon its execution by the Parties and shall end at 12:01 a.m. on the Termination Date, (the "Term") unless terminated earlier in accordance with the provisions hereof. Notwithstanding the foregoing, if the Capacity Delivery Date of the Facility is not accomplished by the RF/QF before the Required Capacity Delivery Date (or such later date as may be permitted by DEF pursuant to Section 7), this Contract shall be rendered null and void and DEF's shall have no obligations under this Contract.

#### 4. Minimum Specifications and Milestones

As required by FPSC Rule 25-17.0832(4)(e), the minimum specifications pertaining to this Contract and milestone dates are as follows:

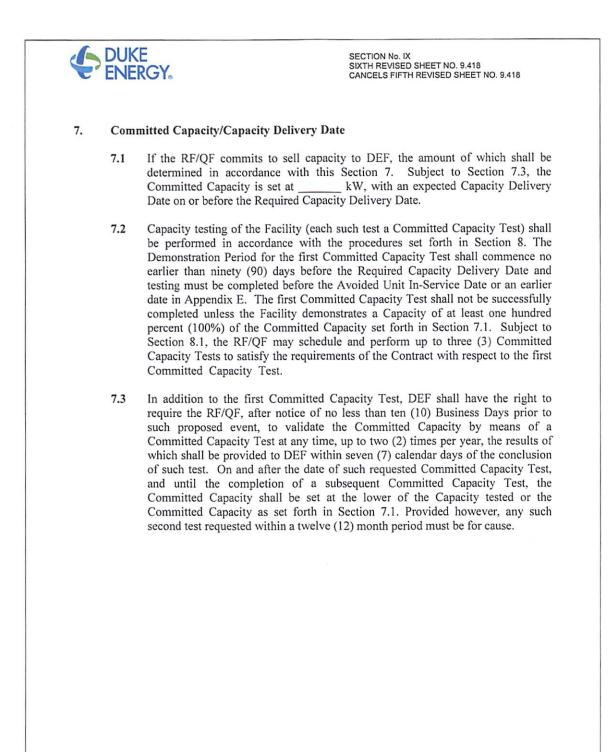
Avoided Unit	Undesignated Combustion Turbine
Avoided Unit Capacity	22 <u>6</u> 8 MW
Avoided Unit In-Service Date	June 1, 202 <u>7</u> 4
Avoided Unit Heat Rate	10, <u>905</u> 672 BTU/kWh
Avoided Unit Variable O&M	0.09351¢ per kWh in mid-20187 dollars escalating annually at 2.50%
Avoided Unit Life	35 years
Capacity Payments begin	Avoided Unit In-Service Date unless Option B, or D is selected or amended in Appendix E
Termination Date	May 31, 20374 (10 years) unless amended in Appendix E
Minimum Performance Standards – On Peak Availability Factor*	95%
Minimum Performance Standards – Off Peak Availability Factor	95%
Minimum Availability Factor Required to qualify for a Capacity payment	75%
Expiration Date	April 1, 201 <u>9</u> 8
Completed Permits Date	June 1, 202 <u>5</u> 2
Exemplary Early Capacity Payment Date	January 1, 202 <u>5</u> 2

\* RF/QF performance shall be as measured and/or described in Appendix A.

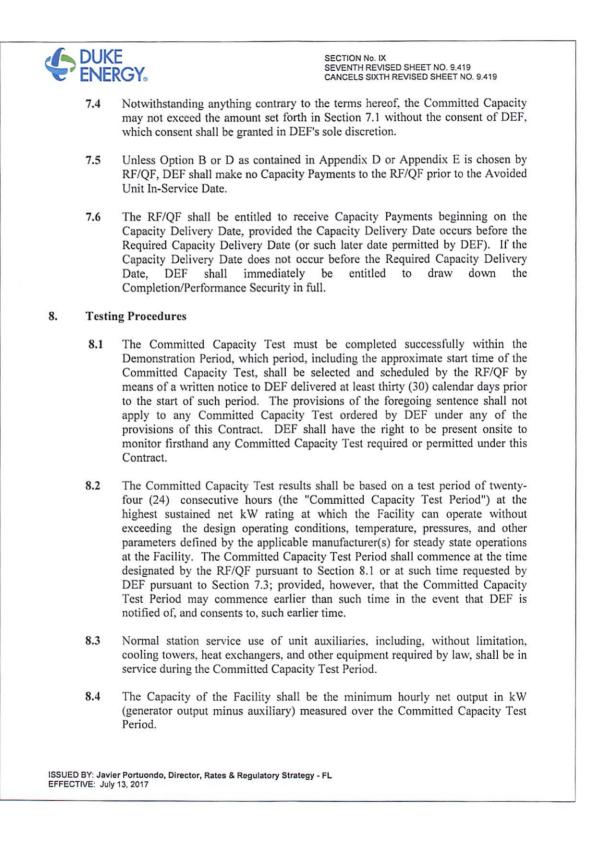
ISSUED BY: Javier Portuondo, <u>Managing</u> Director, Rates & Regulatory Strategy - FL EFFECTIVE: July-13-2017

-		
4	DUK	E SECTION No. IX SEVENTH REVISED SHEET NO. 9.416 CANCELS SIXTH REVISED SHEET NO. 9.416
5.	Cond	itions Precedent
(a)		s otherwise waived in writing by DEF, on or before the Drop Dead Date, RF/QF satisfy the following Conditions Precedent:
	(i)	RF/QF shall have obtained firm transmission service necessary to deliver Capacity and energy from the Facility to the Electrical Interconnection Point, in a form and substance satisfactory to RF/QF in its sole discretion;
	(ii)	RF/QF shall have obtained the Project Consents and any other Consents for which it is responsible under the terms hereof in a form and substance satisfactory to RF/QF in its sole discretion;
	(iii)	RF/QF shall have entered into Financing Documents relative to the construction of the Facility and have achieved Financial Closing in a form and substance satisfactory to RF/QF in its sole discretion;
	(iv)	RF/QF shall have entered into the Project Contracts in a form and substance satisfactory to RF/QF in its sole discretion;
	(v)	RF/QF shall have obtained insurance policies or coverage in compliance with Section 17;
	(vi)	Each Party shall have delivered to the other Party (i) a copy of its constitutional documents (certified by its corporate secretary as true, complete and up-to-date) and (ii) a copy of a corporate resolution approving the terms of this Contract and the transactions contemplated hereby and authorizing one or more individuals to execute this Contract on its behalf (such copy to have been certified by its corporate representative as true, complete and up-to-date);
	(vii)	RF/QF shall have obtained Qualifying Facility status from either the FPSC or FERC. The RF/QF shall provide the Duke Energy Florida Director of Qualified Facility Contracts a copy of the certification of QF status filing and any re-filings required to reflect subsequent changes to the previously certified Facility.
(b)	satisfi satisfa discre Defau such c	ptly upon satisfaction of the Conditions Precedent to be satisfied, the Party having ted the same shall deliver to the other Party a certificate evidencing such action. DEF may waive the satisfaction of a Condition Precedent at its sole tion. Such waiver must be made in writing. Subject to there being no Event of all which has occurred and/or is continuing as of the date upon which the last of certificates is delivered, the date of such last certificate shall constitute the effective of this Contract (the "Effective Date").
(c)	Condi	s all Conditions Precedent are satisfied on or before the Drop Dead Date or such itions Precedent are waived in writing , this Contract shall terminate on such date either Party shall have any further liability to the other Party hereunder.
(d)		F shall achieve the Capacity Delivery Date on or before the Required Capacity ery Date.
	BY: Javid TIVE: July	er Portuondo, Director, Rates & Regulatory Strategy - FL 13, 2017

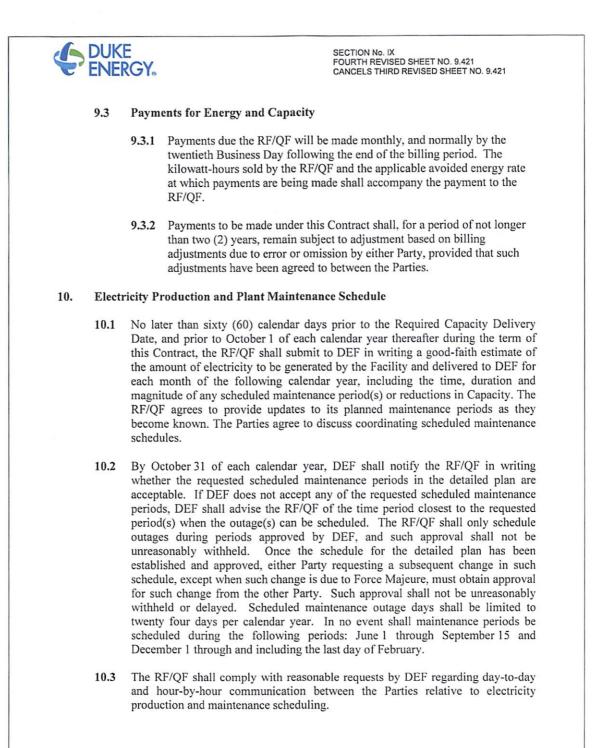
\$	DUK ENE	e RGY.	SECTION No. IX FOURTH REVISED SHEET NO.9.417 CANCELS THIRD REVISED SHEET NO. 9.417
(e)	RF/QI	F shall ensure that before the initial Comm	nitted Capacity Test:
	(a)	the Facility shall have been constructed be duly and properly undertaken in acco	so that the Committed Capacity Test may rdance with Section 7; and
	(b)	an operable physical connection from the shall have been effected in accordance we operating agreement required by the Tra- that such physical connection shall be me	with the electrical interconnection and nsmission Provider, provided, however,
6.	Sale o	f Electricity by the RF/QF	
	6.1	purchase from the RF/QF electric power and sale of electricity pursuant to the arrangement or () simultaneous pur however, that no such arrangement sha	RF/QF shall sell to DEF and DEF shall r generated by the Facility. The purchase his Contract shall be a () net billing rchase and sale arrangement; provided, and cause the RF/QF to sell more than the odology may be changed at the option of Appendix D.
	6.2	Ownership and Offering For Sale Of Re	newable Energy Attributes
			retain any and all rights to own and to sell sociated with the electric generation of the
	6.3	In the event that the RF/QF decides to se electric generation of the RF/QF during provide notice to the Company of its int Company a reasonable opportunity to ob	the term of this Contract, the RF/QF shall ent to sell such EAs and provide the
	6.4	The RF/QF shall not rely on interrupti start up requirements (initial or otherwise	ble or curtailable standby service for the se) of the Facility.
	6.5	for all costs, expenses, taxes, fees and energy to DEF. The RF/QF shall en with the Transmission Provider in wh located and the RF/QF shall make any (including interconnection and ancillar Transmission Provider for delivery of the DEF. The Capacity and energy amoun include transmission losses. The RF/ losses that occur prior to the point at the DEF. The Parties recognize that the Tr	e scheduling of required transmission and l charges associated with the delivery of ter into a transmission service agreement ose service territory the Facility is to be and all transmission-related arrangements ry services) between the RF/QF and the the Facility's firm Capacity and energy to nts paid to the RF/QF hereunder do not QF shall be responsible for transmission which the RF/QF's energy is delivered to ansmission Provider may be DEF and that the transmission service will be provided
	BY: Javie TVE: July	er Portuondo, Director, Rates & Regulatory Strategy	FL



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	SECTION No. IX FIFTH REVISED SHEET NO. 9.420 CANCELS FOURTH REVISED SHEET NO. 9.420
8.5	The Committed Capacity Test shall be performed according to standard industry testing procedures for the appropriate technology of the RF/QF.
8.6	The results of any Committed Capacity Test, including all data related to Facility operation and performance during testing, shall be submitted to DEF by the RF/QF within seven (7) calendar days of the conclusion of the Committed Capacity Test. The RF/QF shall certify that all such data is accurate and complete.
9. Payr	nent for Electricity Produced by the Facility
9.1	Energy
	<b>9.1.1</b> DEF agrees to pay the RF/QF for energy produced by the Facility and delivered to DEF in accordance with the rates and procedures contained in Appendix D, as it may be amended from time to time. The Parties agree that this Contract shall be subject to all of the provisions contained in Rate Schedule COG-1 or Appendix D whichever applies as approved and on file with the FPSC.
	9.1.2 DEF may, at its option, limit deliveries under this Contract to 110% of the Committed Capacity as set forth in Section 7. In the event that DEF chooses to limit deliveries, any energy in excess of 110% of the Committed Capacity will be paid for at the rates defined in Rate Schedule COG-1 and shall not be included in the calculations in Appendix A hereto.
9.2	Capacity
	DEF agrees to pay the RF/QF for the Capacity described in Section 7 in accordance with the rates and procedures contained in Appendix D, as it may be amended and approved from time to time by the FPSC, and pursuant to the election of Option of Appendix D or an alternative rate schedule in Appendix E. The RF/QF understands and agrees that Capacity Payments will only be made if the Capacity Delivery Date occurs before the Required Capacity Delivery Date and the Facility is delivering firm Capacity and Energy to DEF. Once so selected, this Option, the Firm Capacity Rate and/or the Firm Energy Rate cannot be changed for the term of this Contract.
ISSUED BY: Jav EFFECTIVE: Ju	ier Portuondo, Director, Rates & Regulatory Strategy - FL ly 13, 2017



ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 10, 2014

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SECTION No. IX FIFTH REVISED SHEET No. 9.422 CANCELS FOURTH REVISED SHEET NO. 9.422

10.4 The Parties recognize that the intent of the availability factor in Section 4 of this Contract includes an allowance for scheduled outages, forced outages and forced reductions in the output of the Facility. Therefore, the RF/QF shall provide DEF with notification of any forced outage or reduction in output which shall include the time and date at which the forced outage or reduction occurred, a brief description of the cause of the outage or reduction and the time and date when the forced outage or reduction ceased and the Facility was able to return to normal operation. This notice shall be provided to DEF within seventy-two (72) hours of the end of the forced outage or reduction.

The RF/QF is required to provide the total electrical output to DEF except (i) during a period that was scheduled in Section 10.2, (ii) during a period in which notification of a forced outage or reduction was provided, (iii) during an event of Force Majeure or (iv) during a curtailment period as described in Section 10.5.5. In no event shall the RF/QF deliver any portion of their electrical output to a third party.

### 10.5 Dispatch and Control

- 10.5.1 Power supplied by the RF/QF hereunder shall be in the form of threephase 60 hertz alternating current, at a nominal operating voltage of \_\_\_\_\_\_ volts (\_\_\_\_\_\_ kV) and power factor dispatchable and controllable in the range of 90% lagging to 90% leading as measured at the interconnection point to maintain system operating parameters, including power factor, as specified from time to time by DEF.
- 10.5.2 The RF/QF shall operate the Facility with all system protective equipment in service whenever the Facility is connected to, or is operated in parallel with, DEF's system, except for normal testing and repair in accordance with good engineering and operating practices as agreed by the Parties. The RF/QF shall provide adequate system protection and control devices to ensure safe and protected operation of all energized equipment during normal testing and repair. All RF/QF facilities shall meet IEEE and utility standards. The RF/QF shall have independent, third party qualified personnel test, calibrate and certify in writing all protective equipment at least once every twelve (12) months in accordance with good engineering and operating practices. A unit functional trip test shall be performed after each overhaul of the Facility's turbine, generator or boilers and results provided to DEF in writing prior to returning the equipment to service. The specifics of the unit functional trip test will be consistent with Prudent Utility Practices.

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 21, 2015

DUKE ENERGY.	SECTION No. IX SEVENTH REVISED SHEET NO. 9.423 CANCELS SIXTH REVISED SHEET NO. 9.423
10.5.3	If the Facility is separated from the DEF system for any reason, under no circumstances shall the RF/QF reconnect the Facility to DEF's system without first obtaining DEF'S specific approval.
10.5.4	During the term of this Contract, the RF/QF shall employ qualified personnel for managing, operating and maintaining the Facility and for coordinating such with DEF. The RF/QF shall ensure that operating personnel are on duty at all times, twenty-four (24) hours a calendar day and seven (7) calendar days a week. Additionally, during the term of this Contract, the RF/QF shall operate and maintain the Facility in such a manner as to ensure compliance with its obligations hereunder and in accordance with applicable law and Prudent Utility Practices.
10.5.5	DEF shall not be obligated to purchase, and may require curtailed or reduced deliveries of energy to the extent allowed under FPSC Rule 25-17.086 and under any curtailment plan which DEF may have on file with the FPSC from time to time.
10.5.6	During the term of this Contract, the RF/QF shall maintain sufficient fuel on the site of the Facility to deliver the capacity and energy associated with the Committed Capacity for an uninterrupted seventy-two-(72) hour period. At DEF's request, the RF/QF shall demonstrate this capability to DEF's reasonable satisfaction. During the term of this Contract, the RF/QF's output shall remain within a band of plus or minus ten percent (10%) of the daily output level or levels specified by the plant operator, in ninety percent (90%) of all operating hours under normal operating conditions. This calculation will be adjusted to exclude forced outage periods and periods during which the RF/QF's output is affected by a Force Majeure event.
11. Completion/I	Performance Security
Eligib	taneous with the execution of this Contract RF/QF shall deliver to DEF le Collateral in an amount equal to \$30.00/kw of Committed Capacity as letion/Performance Security.

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DUKE ENERGY.

SECTION No. IX EIGHTH REVISED SHEET NO. 9.424 CANCELS SEVENTH REVISED SHEET NO. 9.424

11.2 The choice of the type of Eligible Collateral by the RF/QF may be selected from time to time by the RF/QF and upon receipt of substitute Eligible Collateral, DEF shall promptly release the Eligible Collateral that has been replaced by the substitute Eligible Collateral. Following any termination of this Contract, the Parties shall mutually agree to a final settlement of all obligations under this Contract which such period shall not exceed 90 days from such termination date unless extended by mutual agreement between the Parties. After such settlement, any remaining Eligible Collateral posted by the RF/QF that has not been drawn upon by DEF pursuant to its rights under this Contract shall be returned to the RF/QF. Any dispute between the Parties regarding such final settlement shall be resolved according to applicable procedures set forth in Section 20.9.

11.3 Draws, Replenishment - DEF may draw upon Eligible Collateral provided by the RF/QF following the occurrence of an Event of Default or pursuant to the other provisions of this Contract in order to recover any damages to which DEF is entitled to under this Contract. In the event of such a draw then, except in the circumstance when this Contract otherwise terminates, the RF/QF shall within five (5) Business Days replenish the Eligible Collateral to the full amounts required.

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 13, 2017

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DUKE ENERGY.

SECTION No. IX SIXTH REVISED SHEET NO. 9.425 CANCELS FIFTH REVISED SHEET NO. 9.425

11.4 In the event that the (a) Capacity Delivery Date occurs before the Required Capacity Delivery Date and (b) the ACBF is equal to or greater than 95% for the first twelve (12) months following the Capacity Delivery Date then DEF will return the Completion/Performance Security to the RF/QF within ninety (90) days of the first anniversary of the Capacity Delivery Date. In the event that the Capacity Delivery Date does not occur before the Required Capacity Delivery Date then DEF shall immediately be entitled to draw down the Completion/Performance Security in full. In the event that the ACBF is less than 95% for any of the first twelve (12) months following the Capacity Delivery Date then DEF shall be entitled to draw upon the Completion/Security until the ACBF is equal to or greater than 95% for 12 consecutive months. Upon the completion of twelve (12) consecutive months with the ACBF greater than or equal to 95% then DEF will return the Completion/Performance Security within ninety (90) days.

11.5 Reporting - RF/QF shall promptly notify DEF of any circumstance that results in RF/QF's failure to be in compliance with the RF/QF Performance Security Requirements of this Section 11. From time to time, at DEF's written request, RF/QF shall provide DEF with such evidence as DEF may reasonably request, that RF/QF Letter of Credit or Security Account is in full compliance with this Contract.

### 12. Termination Fee and Security

- 12.1 In the event that the RF/QF receives Capacity Payments pursuant to Option B, Option C, or Option D of Appendix D or any Capacity Payment schedule in Appendix E that differs from a Normal Capacity Payment Rate as calculated in FPSC Rule 25-17.0832(6)(a), then upon the termination of this Contract, the RF/QF shall owe and be liable to DEF for the Termination Fee. The RF/QF's obligation to pay the Termination Fee shall survive the termination of this Contract. DEF shall provide the RF/QF, on a monthly basis, a calculation of the Termination Fee.
  - 12.1.1 The Termination Fee shall be secured by the RF/QF by: (i) an unconditional, irrevocable, standby letter(s) of credit issued by a Qualified Institution in form and substance acceptable to DEF (including provisions (a) permitting partial and full draws and (b) permitting DEF to draw upon such Letter of Credit, in full, if such Letter of Credit is not renewed or replaced at least twenty (20) Business Days prior to its expiration date); (ii) a bond issued to DEF by a financially sound company in form and substance acceptable to DEF in its sole discretion; or (iii) a cash deposit with DEF (any of (i), (ii), or (iii), the "Termination Security").

ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 13, 2017 DUKE ENERGY.

SECTION No. IX THIRD REVISED SHEET NO. 9.426 CANCELS SECOND REVISED SHEET NO. 9.426

- 12.1.2 DEF shall have the right and the RF/QF shall be required to monitor the financial condition of (i) the issuer(s) in the case of any Letter of Credit and (ii) the insurer(s), in the case of any bond. In the event the senior debt rating of any issuer(s) or insurer(s) has deteriorated to the extent that they fail to meet the requirements of a Qualified Institution, DEF may require the RF/QF to replace the letter(s) of credit or the bond, as applicable. In the event that DEF notifies the RF/QF that it requires such a replacement, the replacement letter(s) of credit or bond, as applicable, must be issued by a Qualified Institution, and meet the requirements of Section 12.1.1 within thirty (30) calendar days following such notification. Failure by the RF/QF to comply with the requirements of this Section 12.1.2 shall be grounds for DEF to draw in full on any existing Letter of Credit or bond and to exercise any other remedies it may have hereunder.
- 12.1.3 After the close of each calendar quarter (March 31, June 30, September 30, and December 31) occurring subsequent to the Capacity Delivery Date, upon DEF's issuance of the Termination Fee calculation as described in Section 12.1, the RF/QF must provide DEF, within ten calendar (10) days, written assurance and documentation (the "Security Documentation"), in form and substance acceptable to DEF, that the amount of the Termination Security is sufficient to cover the balance of the Termination Fee through the end of the following quarter. In addition to the foregoing, at any time during the term of this Contract, DEF shall have the right to request and the RF/QF shall be obligated to deliver within five (5) calendar days of such request, such Security Documentation. Failure by the RF/QF to comply with the requirements of this Section 12.1.3 shall be grounds for DEF to draw in full on any existing Letter of Credit or bond or to retain any cash deposit, and to exercise any other remedies it may have hereunder.
- 12.1.4 Upon any termination of this Contract following the Required Capacity Delivery Date, DEF shall be entitled to receive (and in the case of the Letter(s) of Credit or bond, draw upon such Letter(s) of Credit or bond) and retain one hundred percent (100%) of the Termination Security.

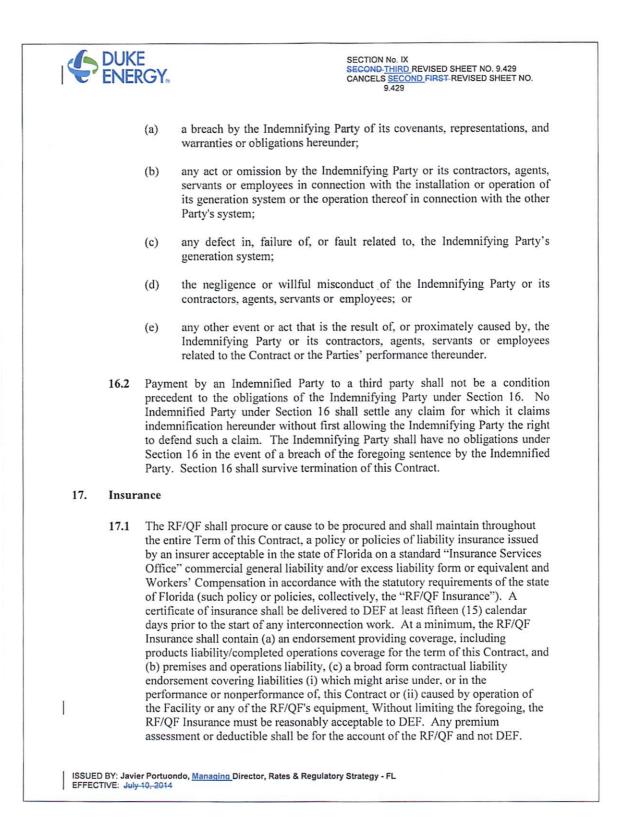
### 13. Performance Factor

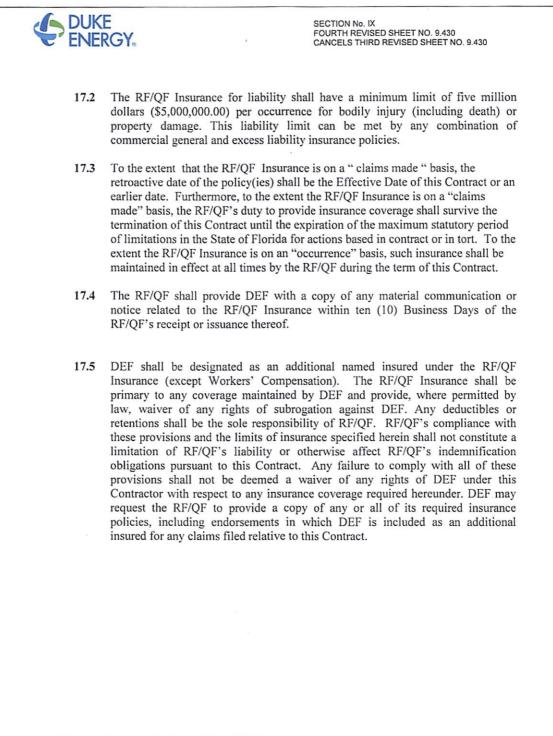
DEF desires to provide an incentive to the RF/QF to operate the Facility during on-peak and off-peak periods in a manner that approximates the projected performance of the Avoided Unit. A formula to achieve this objective is attached as Appendix A.

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<ul> <li>he following shall constitute an Event of</li> <li>the RF/QF changes or modifies the respect to its type, location, the written approval of DEF;</li> <li>after the Capacity Delivery Date months to maintain an Annual Cara, of at least seventy five percent</li> <li>the RF/QF fails to satisfy its oblit the Facility to deliver the capacity</li> </ul>	the Facility from that provided in Section 2 with echnology or fuel source, without the prior by the Facility fails for twelve (12) consecutive spacity Billing Factor, as described in Appendix (75%); gations to maintain sufficient fuel on the site of
<ul> <li>he following shall constitute an Event of</li> <li>the RF/QF changes or modifies the respect to its type, location, the written approval of DEF;</li> <li>after the Capacity Delivery Date months to maintain an Annual Cara, of at least seventy five percent</li> <li>the RF/QF fails to satisfy its oblit the Facility to deliver the capacity</li> </ul>	Default: the Facility from that provided in Section 2 with echnology or fuel source, without the prior the Facility fails for twelve (12) consecutive spacity Billing Factor, as described in Appendix (75%); gations to maintain sufficient fuel on the site of
<ul> <li>respect to its type, location, to written approval of DEF;</li> <li>after the Capacity Delivery Date months to maintain an Annual Ca A, of at least seventy five percent</li> <li>the RF/QF fails to satisfy its obli the Facility to deliver the capacitation of the capacitation of</li></ul>	echnology or fuel source, without the prior , the Facility fails for twelve (12) consecutive apacity Billing Factor, as described in Appendix (75%); gations to maintain sufficient fuel on the site of
<ul> <li>months to maintain an Annual Ca</li> <li>A, of at least seventy five percent</li> <li>the RF/QF fails to satisfy its oblit the Facility to deliver the capac</li> </ul>	apacity Billing Factor, as described in Appendix (75%); gations to maintain sufficient fuel on the site of
the Facility to deliver the capac	
10.5.6 hereof;	ity and energy associated with the Committed seventy-two-(72) hour period under Section
	y payment required pursuant to this Contract if n three (3) Business Days after written notice;
of active business; or if proce insolvency laws shall be institute which owns or controls either Par Party or any of its assets or prope either Party; or if any part of eith encumbered, pledged, seized or proceedings shall not be vacated	owns or controls either Party, ceases the conduct edings under the federal bankruptcy law or d by or for or against either Party or the entity rty; or if a receiver shall be appointed for either erties, or for the entity which owns or controls er Party's assets shall be attached, levied upon, taken under any judicial process, and such or fully stayed within thirty (30) calendar days ake an assignment for the benefit of creditors, or y its debts as they become due;
	ssurance of adequate performance as specified (30) calendar days after DEF, with reasonable ted in writing such assurance;
governmental, environmental, a	ing, certification, and all federal, state and local and licensing approvals required to initiate later than the Completed Permits Date;
the RF/QF fails to comply with th	e provisions of Section 11 hereof;
	warranties, including the certification of the cedent, made by either Party in this Contract is l respect as of the time made;
	<ul> <li>such failure is not remedied within</li> <li>either Party, or the entity which or of active business; or if proceed insolvency laws shall be institute which owns or controls either Party or any of its assets or proper either Party; or if any part of either Party; or if any part of either encumbered, pledged, seized or proceedings shall not be vacated thereof; or if either Party shall matching its inability to pay the RF/QF fails to give proper a under this Contract within thirty grounds for insecurity, has requested the RF/QF fails to achieve licensing overnmental, environmental, a construction of the Facility by no</li> <li>the RF/QF fails to comply with the any of the representations or completion of the Conditions Pre</li> </ul>

<b>DU</b> EN	ke Ergy.	SECTION No. IX FIFTH REVISED SHEET NO. 9.428 CANCELS FOURTH REVISED SHEET NO. 9.428	
(j)	Commit Facility such lev	iny time after the Capacity Delivery Date, the RF/QF reduces the ted Capacity due to an event of Force Majeure and fails to repair the and reset the Committed Capacity to the level set forth in Section 7.1 (as vel may be reduced by Section 7.3) within twelve (12) months following irrence of such event of Force Majeure; or	
(k)		Party breaches any material provision of this Contract not specifically and in this Section 14;	
(1)	the RF/	QF fails to maintain its status as a Qualifying Facility.	
(m)	the RF/	QF sells any energy or firm capacity to an entity other than DEF.	
15. Rig	Rights in the Event of Default		
15.1		Upon the occurrence of any of the Events of Default in Section 14, the DEF may, at its option:	
	15.1.1	immediately terminate this Contract, without penalty or further obligation, except as set forth in Section 15.2, by written notice to the RF/QF, and offset against any payment(s) due from DEF to the RF/QF, any monies otherwise due from the RF/QF to DEF;	
	15.1.2	enforce the provisions of the Completion/Performance Security pursuant to Section 11 and/or the Termination Security requirement pursuant to Section 12 hereof, as applicable; and	
	15.1.3	exercise any other remedy(ies) which may be available to DEF at law or in equity.	
15.2		ation shall not affect the liability of either Party for obligations arising such termination or for damages, if any, resulting from any breach of this t.	
16. Ind	emnificatio	mnification	
16.1	RF/QF custome protection agrees, hold han employed and "RI expense	DEF and the RF/QF shall each be responsible for its own facilities. DEF and the RF/QF shall each be responsible for ensuring adequate safeguards for other DEF customers, DEF's and the RF/QF's personnel and equipment, and for the protection of its own generating system. Each Party (the "Indemnifying Party") agrees, to the extent permitted by applicable law, to indemnify, pay, defend, and hold harmless the other Party (the "Indemnified Party") and its officers, directors, employees, agents and contractors (hereinafter called respectively, "DEF Entities" and "RF/QF Entities") from and against any and all claims, demands, costs or expenses for loss, damage, or injury to persons or property of the Indemnified Party (or to third parties) directly caused by, arising out of, or resulting from:	
ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: July 13, 2017			





# DUKE ENERGY.

SECTION No. IX THIRD-FOURTH REVISED SHEET NO. 9.431 CANCELS SECOND-THIRD REVISED SHEET NO. 9.431

# 18. Force Majeure

- 18.1 "Force Majeure" is defined as an event or circumstance that is not reasonably foreseeable, is beyond the reasonable control of and is not caused by the negligence or lack of due diligence of the Party claiming Force Majeure or its contractors or suppliers and adversely affects the performance by that Party of its obligations under or pursuant to this Contract. Such events or circumstances may include, but are not limited to, actions or inactions of civil or military authority (including courts and governmental or administrative agencies), acts of God, war, riot or insurrection, blockades, embargoes, sabotage, epidemics, explosions and fires not originating in the Facility or caused by its operation, hurricanes, floods, strikes, lockouts or other labor disputes or difficulties (not caused by the failure of the affected party to comply with the terms of a collective bargaining agreement). Force Majeure shall not be based on (i) the loss of DEF's markets; (ii) DEF's economic inability to use or resell the Capacity and Energy purchased hereunder; or (iii) RF/QF's ability to sell the Capacity or Energy at a price greater than the price herein. Equipment breakdown or inability to use equipment caused by its design, construction, operation, maintenance or inability to meet regulatory standards, or otherwise caused by an event originating in the control of a Party, or a Party's failure to obtain on a timely basis and maintain a necessary permit or other regulatory approval, shall not be considered an event of Force Majeure, unless such Party can reasonably demonstrate, to the reasonable satisfaction of the non-claiming Party, that the event was not reasonably foreseeable, was beyond the Party's reasonable control and was not caused by the negligence or lack of due diligence of the Party claiming Force Majeure or its agents, contractors or suppliers and adversely affects the performance by that Party of its obligations under or pursuant to this Contract.
- 18.2 Except as otherwise provided in this Contract, each Party shall be excused from performance when its nonperformance was caused, directly or indirectly by an event of Force Majeure.
- 18.3 In the event of any delay or nonperformance resulting from an event of Force Majeure, the Party claiming Force Majeure shall notify the other Party in writing within five (5) Business Days of the occurrence of the event of Force Majeure, of the nature cause, date of commencement thereof and the anticipated extent of such delay, and shall indicate whether any deadlines or date(s), imposed hereunder may be affected thereby. The suspension of performance shall be of no greater scope and of no greater duration than the cure for the Force Majeure requires. A Party claiming Force Majeure shall not be entitled to any relief therefore unless and until conforming notice is provided. The Party claiming Force Majeure or of the conclusion of the affected Party's cure for the event of Force Majeure in either case within two (2) Business Days thereof.

ISSUED BY: Javier Portuondo, <u>Managing</u> Director, Rates & Regulatory Strategy - FL EFFECTIVE: July-10-2014

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DUKE ENERGY.

SECTION №. IX THIRD REVISED SHEET NO. 9.432 CANCELS SECOND REVISED SHEET NO. 9.432

- 18.4 The Party claiming Force Majeure shall use its best efforts to cure the cause(s) preventing its performance of this Contract; provided, however, the settlement of strikes, lockouts and other labor disputes shall be entirely within the discretion of the affected Party and such Party shall not be required to settle such strikes, lockouts or other labor disputes by acceding to demands which such Party deems to be unfavorable.
- 18.5 If the RF/QF suffers an occurrence of an event of Force Majeure that reduces the generating capability of the Facility below the Committed Capacity, the RF/QF may, upon notice to DEF temporarily adjust the Committed Capacity as provided in Sections 18.6 and 18.7. Such adjustment shall be effective the first calendar day immediately following DEF's receipt of the notice or such later date as may be specified by the RF/QF. Furthermore, such adjustment shall be the minimum amount necessitated by the event of Force Majeure.
- **18.6** If the Facility is rendered completely inoperative as a result of Force Majeure, the RF/QF shall temporarily set the Committed Capacity equal to 0 kW until such time as the Facility can partially or fully operate at the Committed Capacity that existed prior to the Force Majeure. If the Committed Capacity is 0 kW, DEF shall have no obligation to make Capacity Payments hereunder.
- 18.7 If, at any time during the occurrence of an event of Force Majeure or during its cure, the Facility can partially or fully operate, then the RF/QF shall temporarily set the Committed Capacity at the maximum capability that the Facility can reasonably be expected to operate.
- 18.8 Upon the cessation of the event of Force Majeure or the conclusion of the cure for the event of Force Majeure, the Committed Capacity shall be restored to the Committed Capacity that existed immediately prior to the Force Majeure. Notwithstanding any other provisions of this Contract, upon such cessation or cure, DEF shall have right to require a Committed Capacity Test to demonstrate the Facility's compliance with the requirements of this Section 18.8. Any such Committed Capacity Test required by DEF shall be additional to any Committed Capacity Test under Section 7.3.
- 18.9 During the occurrence of an event of Force Majeure and a reduction in Committed Capacity under Section 18.5 all Monthly Capacity Payments shall reflect, pro rata, the reduction in Committed Capacity, and the Monthly Capacity Payments will continue to be calculated in accordance with the pay-forperformance provisions in Appendix A.

DUKE ENERGY.

SECTION No. IX SECOND REVISED SHEET NO. 9.433 CANCELS FIRST REVISED SHEET NO. 9.433

**18.10** The RF/QF agrees to be responsible for and pay the costs necessary to reactivate the Facility and/or the interconnection with DEF's system if the same is (are) rendered inoperable due to actions of the RF/QF, its agents, or Force Majeure events affecting the RF/QF, the Facility or the interconnection with DEF. DEF agrees to reactivate, at its own cost, the interconnection with the Facility in circumstances where any interruptions to such interconnections are caused by DEF or its agents.

# 19. Representations, Warranties, and Covenants of RF/QF

Each Party hereto represents and warrants that as of the Effective Date:

## 19.1 Organization, Standing and Qualification

DEF is a corporation duly organized and validly existing in good standing under the laws of Florida and has all necessary power and authority to carry on its business as presently conducted to own or hold under lease its properties and to enter into and perform its obligations under this Contract and all other related documents and agreements to which it is or shall be a Party. The RF/QF is a (corporation, partnership, or other, as applicable) duly organized and validly existing in good standing under the laws of and has all necessary power and authority to carry on its business as presently conducted to own or hold under lease its properties and to enter into and perform its obligations under this Contract and all other related documents and agreements to which it is or shall be a Party. Each Party is duly qualified or licensed to do business in the State of Florida and in all other jurisdictions wherein the nature of its business and operations or the character of the properties owned or leased by it makes such qualification or licensing necessary and where the failure to be so qualified or licensed would impair its ability to perform its obligations under this Contract or would result in a material liability to or would have a material adverse effect on the other Party.

## 19.2 Due Authorization, No Approvals, No Defaults

Each of the execution, delivery and performance by each Party of this Contract has been duly authorized by all necessary action on the part of such Party, does not require any approval, except as has been heretofore obtained, of the shareholders DEF or of the \_\_\_\_\_\_\_\_\_ (shareholders, partners, or others, as applicable) of the RF/QF or any consent of or approval from any trustee, lessor or holder of any indebtedness or other obligation of such Party, except for such as have been duly obtained, and does not contravene or constitute a default under any law, the articles of incorporation of DEF or the \_\_\_\_\_\_\_\_ (articles of incorporation, bylaws, or other as applicable) of such Party, or any agreement, judgment, injunction, order, decree or other instrument binding upon such Party, or subject the Facility or any component part thereof to any lien other than as contemplated or permitted by this Contract.



SECTION No. IX SECOND REVISED SHEET NO. 9.434 CANCELS FIRST REVISED SHEET NO. 9.434

## 19.3 Compliance with Laws

Each party has knowledge of all laws and business practices that must be followed in performing its obligations under this Contract. Each party also is in compliance with all laws, except to the extent that failure to comply therewith would not, in the aggregate, have a material adverse effect on the other Party.

### 19.4 Governmental Approvals

Except as expressly contemplated herein, neither the execution and delivery by each Party of this Contract, nor the consummation by each Party of any of the transaction contemplated thereby, requires the consent or approval of, the giving of notice to, the registration with, the recording or filing of any document with, or the taking of any other action with respect to governmental authority, except with respect to permits (a) which have already been obtained and are in full force and effect or (b) are not yet required (and with respect to which the RF/QF has no reason to believe that the same will not be readily obtainable in the ordinary course of business upon due application therefore).

# 19.5 No Suits, Proceedings

There are no actions, suits, proceedings or investigations pending or, to the knowledge of each Party, threatened against it at law or in equity before any court or tribunal of the United States or any other jurisdiction which individually or in the aggregate could result in any materially adverse effect on each Party's business, properties, or assets or its condition, financial or otherwise, or in any impairment of its ability to perform its obligations under this Contract. Each Party has no knowledge of a violation or default with respect to any law which could result in any such materially adverse effect or impairment.

# 19.6 Environmental Matters

To the best of its knowledge after diligent inquiry, each Party knows of no (a) existing violations of any environmental laws at the Facility, including those governing hazardous materials or (b) pending, ongoing, or unresolved administrative or enforcement investigations, compliance orders, claims, demands, actions, or other litigation brought by governmental authorities or other third parties alleging violations of any environmental law or permit which would materially and adversely affect the operation of the Facility as contemplated by this Contract.

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SECTION No. IX FOURTH REVISED SHEET NO. 9.435 CANCELS THIRD REVISED SHEET NO. 9.435

# 20. General Provisions

# 20.1 Project Viability

To assist DEF in assessing the RF/QF's financial and technical viability, the RF/QF shall provide the information and documents requested in Appendix C or substantially similar documents, to the extent the documents apply to the type of Facility covered by this Contract and to the extent the documents are available. All documents to be considered by DEF must be submitted at the time this Contract is presented to DEF. Failure to provide the following such documents may result in a determination of non-viability by DEF.

# 20.2 Permits

The RF/QF hereby agrees to obtain and maintain any and all permits, certifications, licenses, consents or approvals of any governmental authority which the RF/QF is required to obtain as a prerequisite to engaging in the activities specified in this Contract.

# 20.3 Project Management

If requested by DEF, the RF/QF shall submit to DEF its integrated project schedule for DEF's review within sixty (60) calendar days from the execution of this Contract, and a start-up and test schedule for the Facility at least sixty (60) calendar days prior to start-up and testing of the Facility. These schedules shall identify key licensing, permitting, construction and operating milestone dates and The RF/QF shall submit monthly progress reports in a form activities. satisfactory to DEF within fifteen (15) calendar days after the close of each month from the first month following the Effective Date until the Capacity Delivery Date. The RF/QF shall notify DEF of any changes in such schedules within ten (10) calendar days after such changes are determined. If for any reason, DEF has reason to believe that RF/QF may fail to achieve the Capacity Delivery Date, then, upon DEF's request, RF/QF shall submit to DEF, within ten (10) business days of such request, a remedial action plan ("Remedial Action Plan") that sets forth a detailed description of RF/QF's proposed course of action to promptly achieve the Capacity Delivery Date. Delivery of a Remedial Action Plan does not relieve RF/QF of its obligation to the Capacity Delivery Date. DEF shall have the right to monitor the construction, start-up and testing of the Facility, either on-site or off-site. DEF's technical review and inspections of the Facility and resulting requests, if any, shall not be construed as endorsing the design thereof or as any warranty as to the safety, durability or reliability of the Facility.



SECTION No. IX THIRD-FOURTH REVISED SHEET NO. 9.436 CANCELS SECOND-THIRD REVISED SHEET NO. 9.436

The RF/QF shall provide DEF with the final designer's/manufacturer's generator capability curves, protective relay types, proposed protective relay settings, main one-line diagrams, protective relay functional diagrams, and alternating current and direct elementary diagrams for review and inspection at DEF no later than one hundred eighty (180) calendar days prior to the initial synchronization date.

# 20.4 Assignment

Either Party may not assign this Contract, without the other Party's prior written approval, which approval may not be unreasonably withheld or delayed.

The RF/QF shall be responsible for DEF's reasonable costs and expenses associated with the review, negotiation, execution and delivery of any such documents or information pursuant to such collateral assignment, including reasonable attorney's fees.

# 20.5 Disclaimer

In executing this Contract, DEF does not, nor should it be construed, to extend its credit or financial support for benefit of any third parties lending money to or having other transactions with the RF/QF or any assigns of this Contract.

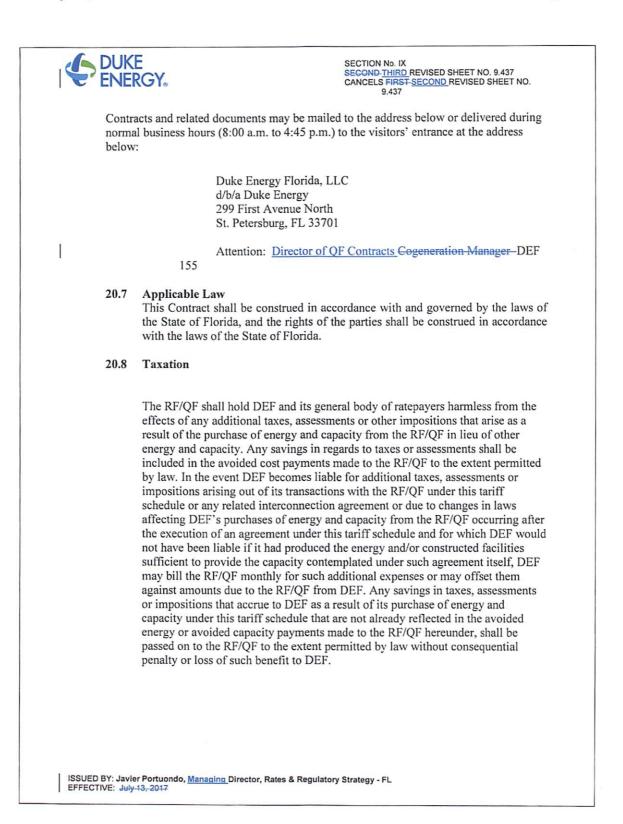
# 20.6 Notification

All formal notices relating to this Contract shall be deemed duly given when delivered in person, or sent by registered or certified mail, or sent by fax if followed immediately with a copy sent by registered or certified mail, to the individuals designated below. The Parties designate the following individuals to be notified or to whom payment shall be sent until such time as either Party furnishes the other Party written instructions to contact another individual:

For the RF/QF:

For DEF:

Duke Energy Florida<u>, LLC</u> <u>Cogeneration ManagerDirector of QF</u> <u>Contracts</u> DEF 155 299 First Avenue North St. Petersburg, FL 33701



# DUKE SECTION No. IX THIRD REVISED SHEET NO. 9.438 CANCELS SECOND REVISED SHEET NO. 9.438 20.9 **Resolution of Disputes** 20.9.1 Notice of Dispute In the event that any dispute, controversy or claim arising out of or relating to this Contract or the breach, termination or validity thereof should arise between the Parties (a "Dispute"), the Party may declare a Dispute by delivering to the other Party a written notice identifying the disputed issue. 20.9.2 Resolution by Parties Upon receipt of a written notice claiming a Dispute, executives of both Parties shall meet at a mutually agreeable time and place within ten (10) business days after delivery of such notice and thereafter as often as they reasonably deem necessary, to exchange relevant information and to attempt to resolve the Dispute. In such meetings and exchanges, a Party shall have the right to designate as confidential any information that such Party offers. No confidential information exchanged in such meetings for the purpose of resolving a Dispute may be used by a Party in litigation against the other Party. If the matter has not been resolved within thirty (30) calendar days of the disputing Party's notice having been issued, or if the Parties fail to meet within ten (10) business days as required above, either Party may initiate binding arbitration in St. Petersburg, Florida, conducted in accordance with the then current American Arbitration Association's ("AAA") Large, Complex Commercial Rules or other mutually

20.10 Limitation of Liability

agreed upon procedures.

IN NO EVENT SHALL DEF, ITS PARENT CORPORATION, OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE, OR MULTIPLE DAMAGES RESULTING FROM ANY CLAIM OR CAUSE OF ACTION, WHETHER BROUGHT IN CONTRACT, TORT (INCLUDING, BUT NOT LIMITED TO, NEGLIGENCE OR STRICT LIABILITY), OR ANY OTHER LEGAL THEORY.

# DUKE ENERGY. THIRD REVISED SHEET NO. 9.439 CANCELS SECOND REVISED SHEET NO. 9.439 20.11 Severability If any part of this Contract, for any reason, is declared invalid or unenforceable by a public authority of appropriate jurisdiction, then such decision shall not affect the validity of the remainder of the Contract, which remainder shall remain in force and effect as if this Contract had been executed without the invalid or unenforceable portion. 20.12 **Complete Agreement and Amendments** All previous communications or agreements between the Parties, whether verbal or written, with reference to the subject matter of this Contract are hereby abrogated. No amendment or modification to this Contract shall be binding unless it shall be set forth in writing and duly executed by both Parties. This Contract constitutes the entire agreement between the Parties. 20.13 Survival of Contract Subject to the requirements of Section 20.4, this Contract, as it may be amended

SECTION No. IX

from time to time, shall be binding upon, and inure to the benefit of, the Parties' respective successors-in-interest and legal representatives.

#### 20.14 **Record Retention**

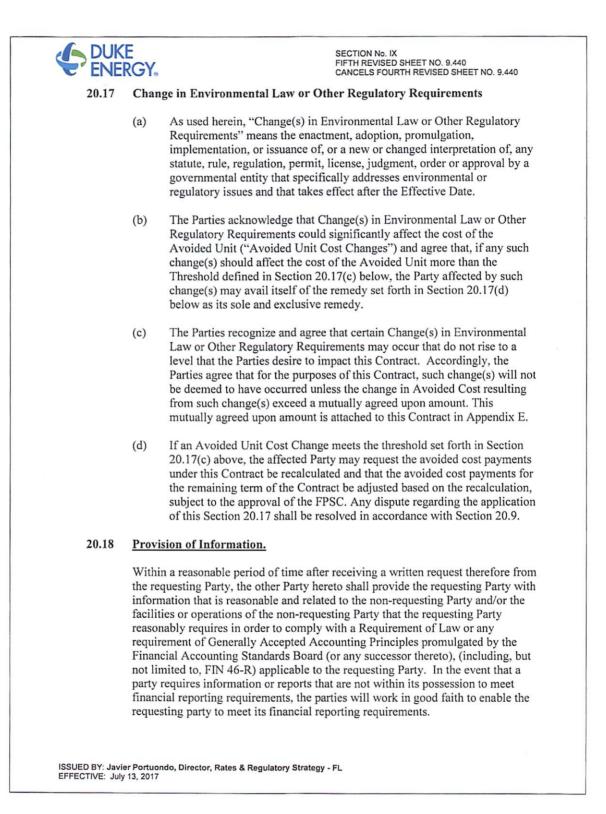
Each Party shall maintain for a period of five (5) years from the date of termination hereof all records relating to the performance of its obligations hereunder.

#### 20.15 No Waiver

No waiver of any of the terms and conditions of this Contract shall be effective unless in writing and signed by the Party against whom such waiver is sought to be enforced. Any waiver of the terms hereof shall be effective only in the specific instance and for the specific purpose given. The failure of a Party to insist, in any instance, on the strict performance of any of the terms and conditions hereof shall not be construed as a waiver of such Party's right in the future to insist on such strict performance.

#### 20.16 Set-Off

DEF may at any time, but shall be under no obligation to, set off or recoup any and all sums due from the RF/QF against sums due to the RF/QF hereunder without undergoing any legal process.



DUKE ENERGY.	SECTION №. IX THIRD REVISED SHEET NO. 9.441 CANCELS SECOND REVISED SHEET NO. 9.441
IN WITNESS WHEREOF, th	he RF/QF has executed this Contract on the date set forth below.
RF/QF	
Signature	
Print Name	-
Title	- -
Date	
	EF has acknowledged receipt of this executed Contract.
IN WITNESS WHEREOF, D	
IN WITNESS WHEREOF, E DUKE ENERGY FLORIDA,	
IN WITNESS WHEREOF, E DUKE ENERGY FLORIDA Signature	

		SECTION No. IX SEVENTH EIGHTH REVISED SHEET NO. 9.442 CANCELS SIXTH SEVENTH REVISED SHEET NO. 9.442			
	APPENDIX	A			
	TO DUKE ENERGY FLORIDA <u>, LLC</u>				
RENEWABL		ILITY LESS THAN 100 KW			
MONT	THLY CAPACITY PAYM	ENT CALCULATION			
Standard Offer Contract f	Capitalized terms not otherwise defined herein have the meaning ascribed to them in the Standard Offer Contract for the Purchase of Firm Capacity and Energy from a Renewable Energy Producer or a Qualifying Facility less than 100 kW.				
	t that the ACBF is less than ayment shall be due. That is	or equal to 75%, then no Monthly :			
МС	P = 0				
		er than 75% but less than 95%, then the culated by using the following formula:			
МС	P = BCP x [1 - [5 x (.95 - A	CBF)] x CC			
		to or greater than 95%, then the Monthly y using the following formula:			
МС	$P = BCP \times CC$				
Where:					
МСР	<ul> <li>Monthly Capacity Pay</li> </ul>	yment in dollars.			
BCP	<ul> <li>Base Capacity Pays Appendix D or E.</li> </ul>	nent in \$/kW/Month as specified in			
CC	= Committed Capacity i	n kW.			
		х.			

ISSUED BY: Javier Portuondo, <u>Managing</u> Director, Rates & Regulatory Strategy - FL EFFECTIVE: June 9, 2016

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	SECTION No. IX SECOND REVISED SHEET NO. 9.443 CANCELS FIRST REVISED SHEET NO. 9.443
ACBF	Annual Capacity Billing Factor. The ACBF shall be the electric energy actually received by DEF for the 12 consecutive months preceding the date of calculation excluding any energy received during an event of Force Majeure in which the Committed Capacity is temporarily set equal to 0 kW, divided by the product of the Committed Capacity and the number of hours in the 12 consecutive months preceding the date of calculation excluding the hours during an event of Force Majeure in which the Committed Capacity is temporarily set equal to 0 kW. If an event of Force Majeure occurs during the 12 consecutive months preceding the date of calculation in which the Committed Capacity is temporarily set equal to 0 kW. If an event of Force Majeure occurs during the 12 consecutive months preceding the date of calculation in which the Committed Capacity is temporarily set equal to 0 kW. If an event of Force Majeure occurs during the 12 consecutive months preceding the date of calculation in which the Committed Capacity is temporarily set to a value greater than 0 kW then the 12 month rolling average will be prorated accordingly. During the first 12 consecutive Monthly Billing Periods commencing with the first Monthly Billing Period in which Capacity Payments are to be made, the calculation of 12-month rolling average ACBF shall be performed as follows (a) during the first Monthly Billing Period, the ACBF shall be equal to the Monthly Availability Factor; (b) thereafter, the calculation of the ACBF shall be computed by summing the electric energy actually received by DEF for the number of full consecutive months preceding the date of calculation excluding any energy received during an event of Force Majeure in which the Committed Capacity is temporarily set equal to 0 kW. divided by the product of the Committed Capacity and the number of hours in the number of full consecutive months preceding the date of calculation excluding the hours during an event of Force Majeure in which the Committed Capacity is temporarily set equal to
MAF	Monthly Availability Factor. The total energy received during the Monthly Billing Period for which the calculation is made, divided by the product of Committed Capacity times the total hours during the Monthly Billing Period.
Monthly Billing Period	The period beginning on the first calendar day of each calendar month, except that the initial Monthly Billing Period shall consist of the period beginning 12:01 a.m., on the Capacity Delivery Date and ending with the last calendar day of such month.
ISSUED BY: Javier Portuondo, Di EFFECTIVE: April 29, 2013	ector, Rates & Regulatory Strategy - FL

	,	SECTION №. IX THIRD-FOURTH REVISED SHEET 9.444 CANCELS <u>SECOND-THIRD</u> REVISED SHEET NO. 9.444		
APPENDIX B TO DUKE ENERGY FLORIDA <u>, LLC</u> RENEWABLE OR QUALIFYING FACILITY LESS THAN 100 KW STANDARD OFFER CONTRACT				
	TER	MINATION FEE		
Standard Offer Con		erein have the meaning ascribed to them in the of Firm Capacity and Energy from a Renewable less than 100 kW.		
in which the Capa	city Delivery Date of	of the values for each month beginning with the month ccurs through the month of the Termination Date (or computed according to the following formula:		
n $\sum_{i=1}^{n} ($	$MCP_i - MCPC_i) \cdot (1 + $	+ r) <sup>(n-i)</sup>		
with	= 0 for all periods prior to the in-service date of the Unit:			
where				
i	Capacity Delivery	of Monthly Billing Periods commencing with the Delivery Date (i.e., the month in which Capacity Date occurs = 1; the month following this month in apacity Delivery Date occurs = 2 etc.)		
n	the mont	ber of Monthly Billing Periods which have elapsed from h in which the Capacity Delivery Date occurs through th of termination (or month of calculation, as the case		
r	= DEF's in in Apper	cremental after-tax avoided cost of capital (defined as r ndix D).		
MCI	e = Monthly the Mon Appendi:	Capacity Payment paid to RF/QFQF corresponding to thly Billing Period i, calculated in accordance with x A.		
MCI		Capacity Payment for Option A corresponding to the Billing Period i, calculated in accordance with this		
ISSUED BY: Javier Portur EFFECTIVE: April 29, 201		ates & Regulatory Strategy - FL		

DUKE ENERGY. SECTION No. IX SIXTH REVISED SHEET NO. 9.445 CANCELS FIFTH REVISED SHEET NO. 9.445 In the event that for any Monthly Billing Period, the computation of the value of the Termination Fee for such Monthly Billing Period (as set forth above) yields a value less than zero, the amount of the Termination Fee shall be decreased by the amount of such value expressed as a positive number (the "Initial Reduction Value"); provided, however, that such Initial Reduction Value shall be subject to the following adjustments (the Initial Reduction Value, as adjusted, the "Reduction Value"): In the event that in the applicable Monthly Billing Period the Annual a. Capacity Billing Factor, as defined in Appendix A is less than or equal to 75%, then the Initial Reduction Value shall be adjusted to equal zero (Reduction Value = 0), and the Termination Fee shall not be reduced for the applicable Monthly Billing Period. In the event that in the applicable Monthly Billing Period the Annual b. Capacity Billing Factor, as defined in Appendix A, is greater than 75% but less than 95%, than the Reduction Value shall be determined as follows: Reduction Value = Initial Reduction Value x [5 x (ACBF - .95)] For the applicable Monthly Billing period, the Termination Fee shall be reduced by the amount of such Reduction Value. c. In the event that in the applicable Monthly Billing Period the Annual Capacity Billing Factor, as defined in Appendix A, is equal to or greater than 95%, then the Initial Reduction Value shall not be adjusted (Reduction Value = Initial Reduction Value), and the Termination Fee shall be reduced for the applicable Monthly Billing period by the amount of the Initial Reduction Value. In no event shall DEF be liable to the RF/QF at any time for any amount by which the Termination Fee, adjusted in accordance with the foregoing, is less than zero (0).

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	SECTION No. IX FIRST SECOND REVISED SHEET NO. 9.446 CANCELS ORIGINAL FIRST SHEET NO. 9.446
	APPENDIX C
DUKE	TO ENERGY FLORIDA <u>, LLC</u>
RENEWABLE OR QUA	ALIFYING FACILITY LESS THAN 100 KW DARD OFFER CONTRACT
DETAILE	CD PROJECT INFORMATION
	fined herein have the meaning ascribed to them in the archase of Firm Capacity and Energy from a Renewable ility less than 100 kW.
project is financially and technically	EF will be evaluated to determine if the underlying RF/QF viable. The RF/QF shall, to the extent available, provide which addresses the information requested below:
I. FACILITY DESCRIPTION	
<ul> <li>Project Name</li> </ul>	
<ul> <li>Project Location</li> </ul>	
* Street Address	
* Size Plot Plan	
<ul> <li>Legal Description of Site</li> </ul>	
Generating Technology	
Primary Fuel	
Alternate Fuel (if applicable)	
<ul><li>Committed Capacity</li><li>Expected In-Service Date</li></ul>	
Contact Person	
* Individual's Name and Title	
<ul> <li>Individual's Name and Title</li> <li>Company Name</li> </ul>	
<ul><li>Company Name</li><li>Address</li></ul>	
<ul> <li>Company Name</li> <li>Address</li> <li>Telephone Number</li> </ul>	
<ul><li>Company Name</li><li>Address</li></ul>	
<ul> <li>Company Name</li> <li>Address</li> <li>Telephone Number</li> </ul>	

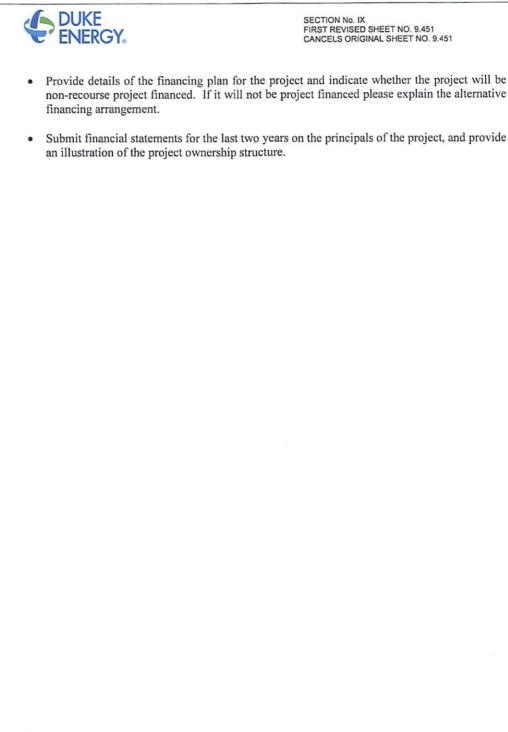
ISSUED BY: Javier Portuondo, <u>Managing</u> Director, Rates & Regulatory Strategy - FL EFFECTIVE: <u>April-29-2013</u>

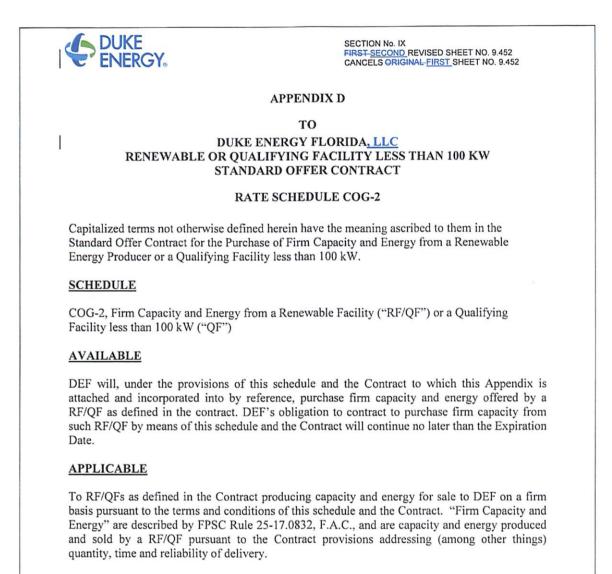
DUKE ENERGY.	SECTION No. IX FIRST REVISED SHEET NO. 9.447 CANCELS ORIGINAL SHEET NO. 9.447
* Sitin * Des * Con * Sec	ject Development ng and Licensing the Facility igning the Facility astructing the Facility uring the Fuel Supply erating the Facility
<ul> <li>operational</li> <li>Describe the of financing</li> </ul>	tails on all electrical facilities which are currently under construction or which were developed by the RF/QF. he financing structure for the projects identified above, including the type g used, the permanent financing term, the major lenders and the percentage wested at Financial Closing.
III. FUEL SUPPLY	
specific ph sulfur cont	Il fuels to be used to generate electricity at the Facility. Indicate the system of the electricity of each fuel type ( <i>e.g.</i> Btu content, tent, ash content, etc.). Identify special considerations regarding fuel in, source and handling, storage and processing requirements.
	FR necessary to support planned levels of generation and list the as used to determine these quantities.
AFR, in ea	summary of the status of the fuel supply arrangements in place to meet the uch year of the proposed operating life of the Facility. Use the categories escribe the current arrangement for securing the AFR.
Category owned =	Description of Fuel Supply Arrangement fuel is from a fully developed source owned by one or more of the project participants
contract =	fully executed firm fuel contract exists between the developer(s) and fuel supplier(s)
LOI = SPP =	a letter of intent for fuel supply exists between developer(s) and fuel supplier(s) small power production facility will burn biomass, waste, or another renewable resource
spot = none = other =	fuel supply will be purchased on the spot market no firm fuel supply arrangement currently in place fuel supply arrangement which does not fit any of the above categories (please describe)
supply arra covered for identified a and explain	e percentage of the Facility's AFR which is covered by the above fuel ngement(s) for each proposed operating year. The percent of AFR r each operating year must total 100%. For fuel supply arrangements is owned, contract, or LOI, provide documentation to support this category in the fuel price mechanism of the arrangement. In addition, indicate not the fuel price includes delivery and, if so, to what location.
ISSUED BY: Javier Portuond EFFECTIVE: April 29, 2013	lo, Director, Rates & Regulatory Strategy - FL

	UKE NERGY.	SECTION No. IX FIRST REVISED SHEET NO. 9.448 CANCELS ORIGINAL SHEET NO. 9.448	
•	Describe fuel transportation networks available for delivering all primary and secondary fuel to the Facility site. Indicate the mode, route and distance of each segment of the journey, from fuel source to the Facility site. Discuss the current status and pertinent factors impacting future availability of the transportation network.		
•	Provide AFTR necessary to support planned levels of generation and list the assumptions used to determine these quantities.		
۰	meet the AFT	Imary of the status of the fuel transportation arrangements in place to R in each year of the proposed operating life of the Facility. Use the pow to describe the current arrangement for securing the AFTR.	
	owned =	fuel transport via a fully developed system owned by one or more of the project participants	
	contract =	fully executed firm transportation contract exists between the developer(s) and fuel transporter(s)	
	LOI =	a letter of intent for fuel transport exists between developer(s) and fuel transporter(s)	
	spot =	fuel transportation will be purchased on the spot market	
	none = other =	no firm fuel transportation arrangement currently in place fuel transportation arrangement which does not fit any of the above categories (please describe)	
•	Provide the maximum, minimum and average fuel inventory levels to be maintained for primary and secondary fuels at the Facility site. List the assumptions used in determining the inventory levels.		
٠		nation regarding RF/QF's plans to maintain sufficient on site fuel to ty and energy for an uninterrupted seventy-two (72) hour period.	
IV. PL	ANT DISPATC	HABILITY/CONTROLLABILITY	
	ide the following	g operating characteristics and a detailed explanation supporting the ies indicated:	
	* Ramp	Rate (MW/minute)	
	<ul> <li>* Peak Capability (% above Committed Capacity)</li> </ul>		
		um power level (% of Committed Capacity) y Turnaround Time, Hot to Hot (hours)	
	<ul> <li>* Start-up Time from Cold Shutdown (hours)</li> </ul>		
		ycling (# cycles/yr.)	
	M W a	nd MVAR Control (ACC, Manual, Other (please explain))	
	: Javier Portuondo, D E: April 29, 2013	birector, Rates & Regulatory Strategy - FL	

DUKE ENERGY.	SECTION No. IX FIRST REVISED SHEET NO. 9.449 CANCELS ORIGINAL SHEET NO. 9.449
V. SITING AND LICEN	NSING
variances, required to milestone dates for base	rmitting milestone schedule, which lists all permits, licenses and site the Facility. The milestone schedule shall also identify key eline monitoring, application preparation, agency review, certification rd approval, and agency permit issuance.
wastewater discharge, v	mitting plan that addresses the issues of air emission, water use, wetlands, endangered species, protected properties, surrounding land ility, associated linear facilities and support of and opposition to the
	nt discharge limits the Facility will meet and describe in detail the ent to be used to meet these limits.
VI. FACILITY DEVELO	PPMENT AND PERFORMANCE
schedule. The schedul selection of the major ed	neering, procurement, construction, startup and commercial operation le shall include milestones for site acquisition, engineering phases, quipment vendors, architect engineer, and Facility operator, steam host of major equipment. A discussion of the current status of each milestone where applicable.
	power block arrangement. Provide a list of the major equipment vendors number of the major equipment to be installed.
	ption of the proposed environmental control technology for the Facility ties of the proposed technology.
<ul> <li>Attach preliminary flow main electrical one line d</li> </ul>	diagrams for the steam system, water system, and fuel system, and a liagram for the Facility.
	ate (HHV) at 75 degrees Fahrenheit for loads of 100%, 75% and 50%. Iminary heat balance for the Facility.
VII. FINANCIAL	
with FPSC Rule 25-17.08	inces that the proposed RF/QF project is financially viable in accordance 832(4)(c) by attaching a detailed pro-forma cash flow analysis. The pro- minimum, the following assumptions for each year of the project.
ISSUED BY: Javier Portuondo, Dire	ctor, Rates & Regulatory Strategy - FL

DUKE SECTION No. IX FIRST REVISED SHEET NO. 9.450 ENERGY. CANCELS ORIGINAL SHEET NO. 9.450 Annual Project Revenues Capacity Payments (\$ and \$/kW/Mo.) Variable O&M (\$ and \$/MWh) \* Energy (\$ and \$/MWh) \* Tipping Fees (\$ and \$/ton) \* Interest Income Other Revenues Variable O&M Escalation (%/yr.) \* Energy Escalation (%/yr.) \* Tipping Fee Escalation (%/yr.) Annual Project Expense \* Fixed O&M (\$ and \$/kW/Mo.) \* Variable O&M (\$ and \$/MWh) \* Energy (\$ and \$/MWh) \* Property Taxes (\$) \* Insurance (\$) \* Emission Compliance (\$ and \$/MWh) \* Depreciation (\$ and %/yr.) \* Other Expenses (\$) \* Fixed O&M Escalation (%/yr.) \* Variable O&M Escalation (%/yr.) \* Energy Escalation (%/yr.) Other Project Information . Installed Cost of the Facility (\$ and \$/kW) \* \* Committed Capacity (kW) \* Average Heat Rate - HHV (MBTU/kWh) \* Federal Income Tax Rate (%) \* Facility Capacity Factor (%) \* Energy Sold to DEF (MWh) Permanent Financing • Permanent Financing Term (yr.) Project Capital Structure (percentage of long-term debt, subordinated debt, tax exempt debt and equity) Financing Costs (cost of long-term debt, subordinated debt, tax exempt debt and equity) Annual Interest Expense Annual Debt Service (\$) Amortization Schedule (beginning balance, interest expense, principal reduction, ending balance) ISSUED BY: Javier Portuondo, Director, Rates & Regulatory Strategy - FL EFFECTIVE: April 29, 2013

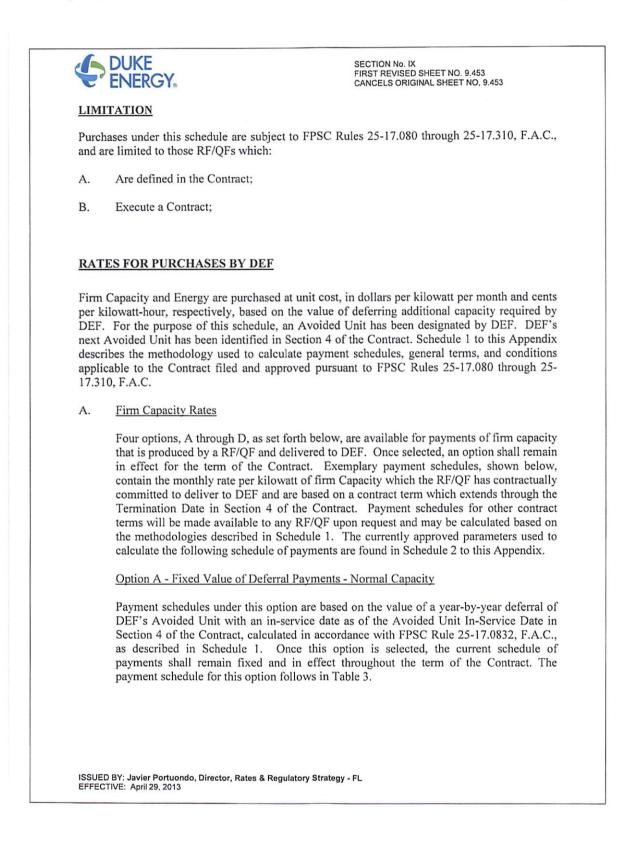


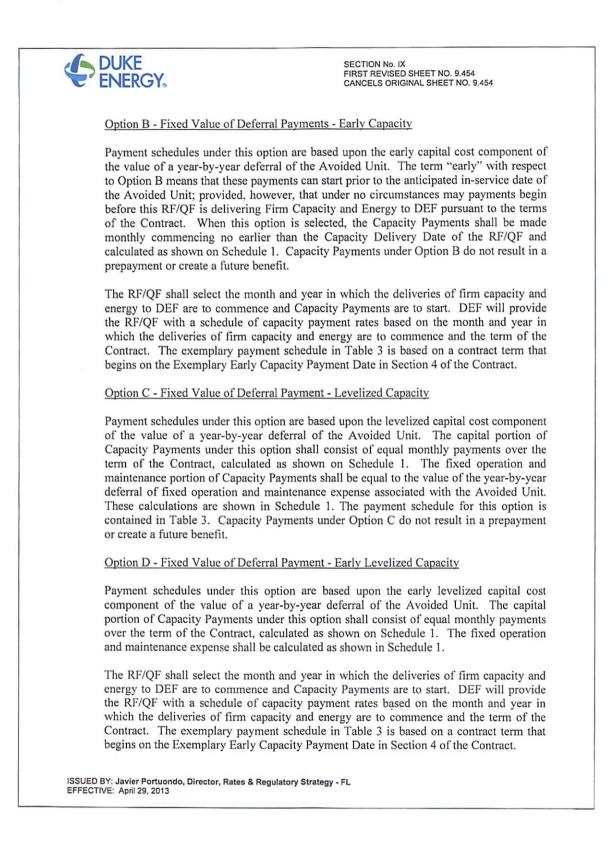


# CHARACTER OF SERVICE

Purchases within the territory served by DEF shall be, at the option of DEF, single or three phase, 60-hertz alternating current at any available standard DEF voltage. Purchases from outside the territory served by DEF shall be three phase, 60-hertz alternating current at the voltage level available at the interchange point between DEF and the entry delivering the Firm Capacity and Energy from the RF/QF.

ISSUED BY: Javier Portuondo, <u>Managing</u> Director, Rates & Regulatory Strategy - FL EFFECTIVE: April 29, 2013





DUKE ENERGY.			EVISED SHEET NO. 9.455 ENTH REVISED SHEET NO.
1	TABLE 3         IONTHLY CAPACITY PADEF'S June 1, 2024-2027 U         DEF'S June 1, 2024-2027 U         Ing Facility Standard Offer	Indesignated CT	
	(\$/kW/MONT	Ή)	
Option Norm Capaci Contract Payment S Year on the Av Unit In-Se Date	al Early ty Capacity tarting Payment Starting oided on the ervice Exemplary	Option C Levelized Capacity Payment Starting on the Avoided Unit In-Service Date	Option D Early Levelized Capacity Payment Starting on the Exemplary Capacity Payment Date
$\begin{array}{c} 202\underline{44}\\ 202\underline{52}\\ 202\underline{63}\\ 202\underline{74} & \underline{4.844}\\ 202\underline{85} & \underline{4.964}\\ 202\underline{96} & \underline{5.094}\\ 203\underline{0}\underline{27} & \underline{5.224}\\ 203\underline{128} & \underline{5.354}\\ 203\underline{229} & \underline{5.484}\\ 203\underline{3229} & \underline{5.484}\\ 203\underline{3340} & \underline{5.625}\\ 203\underline{41} & \underline{5.765}\\ 203\underline{52} & \underline{5.905}\\ 203\underline{63} & \underline{6.055}\\ 203\underline{74} & \underline{6.205}\\ \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	5.374.84 $5.384.85$ $5.384.86$ $5.394.87$ $5.404.87$ $5.414.88$ $5.424.89$ $5.434.90$ $5.434.90$ $5.444.91$ $5.454.92$ $5.464.93$	$\begin{array}{r} \underline{4.193.80}\\ \underline{4.203.80}\\ \underline{4.213.81}\\ \underline{4.213.82}\\ \underline{4.223.82}\\ \underline{4.233.83}\\ \underline{4.233.83}\\ \underline{4.233.83}\\ \underline{4.243.84}\\ \underline{4.253.85}\\ \underline{4.263.86}\\ \underline{4.263.86}\\ \underline{4.263.86}\\ \underline{4.273.87}\\ \underline{4.283.88} \end{array}$
years from t term greater prepare a sol Payment rate	y Payment schedules conta he Avoided Unit In-Service than ten years but less thar hedule of Capacity Paymen es shall be calculated utilizi FPSC Rule 25-17.0832(6).	e Date. In the event t in the Avoided Unit L its for the requested t ing the value-of-defe	he RF/QF requests a ife then DEF shall erm. Such Capacity
ISSUED BY: Javier Portuondo, Ma EFFECTIVE: July-13,-2017	naging Director, Rates & Regulato	ry Strategy - FL	

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SECTION No. IX SECOND REVISED SHEET NO. 9.456 CANCELS FIRST REVISED SHEET NO. 9.456

2. The RF/QF may also request an alternative Capacity Payment rate stream from DEF as authorized by Rule 25-17.250(4). Regardless of the Capacity Payment rate stream requested by the RF/QF, the cumulative present value of the capital cost payments made to the RF/QF over the term of the Contract shall not exceed the cumulative present value of the capital cost payments had such payments been made pursuant to FPSC Rule 25-17.0832(4)(g)(i). Fixed operation and maintenance expense shall be calculated to conform with FPSC Rule 25-17.0832(6)(b). Such an alternative Capacity Payment rate shall be subject to the Termination Fee in Appendix B.

In the event that alternative Capacity Payment rates are agreed upon, such Capacity Payment rate schedule shall be attached to the Contract in Appendix E.

# B. Energy Rates

Payments Prior to the Avoided Unit In-Service Date

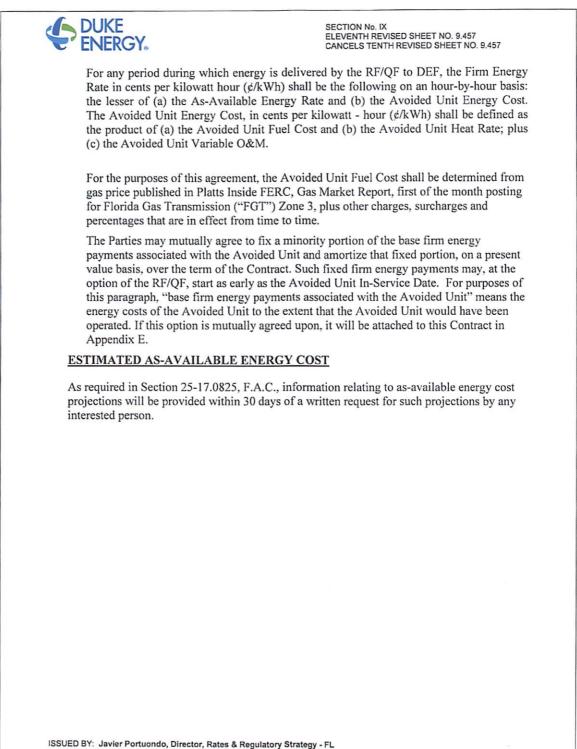
 The energy rate, in cents per kilowatt-hour (¢/kWh), shall be based on DEF's actual hourly avoided energy costs which are calculated by DEF in accordance with FPSC Rule 25-17.0825, F.A.C.

The calculation of payments to the RF/QF shall be based on the sum over all hours of the billing period, of the product of each hour's avoided energy cost times the amount of energy (kWh) delivered to DEF from the Facility for that hour. All purchases shall be adjusted for losses from the point of metering to the point of interconnection.

 Upon request of the RF/QF, DEF shall provide the RF/QF the option of receiving energy payments based on DEF's year-by-year projection of system incremental costs prior to hourly economy energy sales to other utilities, based on normal weather and fuel conditions plus a mutually agreed upon market volatility risk premium.

# Payments Starting on Avoided Unit In-Service Date

The calculation of payments to the RF/QF for energy delivered to DEF, on and after the Avoided Unit In-Service Date shall be the sum, over all hours of the Monthly Billing Period, of the product of (a) each hour's Firm Energy Rate ( $\phi/kWh$ ); and (b) the amount of energy (kWh) delivered to DEF from the Facility during that hour.



EFFECTIVE: July 13, 2017



SECTION No. IX ELEVENTH-TWELFTH REVISED SHEET NO. 9.458 CANCELS ELEVENTH TENTH REVISED SHEET NO. 9.458

# ESTIMATED UNIT FUEL COST

As required in Section 25-17.0832, F.A.C., the estimated fuel costs associated with DEF's Avoided Unit are based on current estimates of the price of natural gas and will be provided within 30 days of a written request for such projections by any interested person.

# DELIVERY VOLTAGE ADJUSTMENT

DEF's average system line losses are analyzed annually for the prior calendar year, and delivery efficiencies are developed for the transmission, distribution primary, and distribution secondary voltage levels. This analysis is provided in the DEF's Procedures For Changing The Real Power Loss Factor (currently Attachment Q) in its Open Access Transmission Tariff and DEF's fuel cost recovery filing with the FPSC. An adjustment factor, calculated as the reciprocal of the appropriate delivery efficiency factor, is applicable to the above determined energy costs if the RF/QF is within DEF's service territory to reflect the delivery voltage level at which RF/QF energy is received by the DEF.

The current delivery voltage adjustment factors are:

Delivery Voltage	Adjustment Factor	
Transmission Voltage Delivery	1.01 <u>53</u> <del>36</del>	
Primary Voltage Delivery	1.02 <u>57</u> 36	
Secondary Voltage Delivery	1.0 <u>627</u> 6 <del>29</del>	

# PERFORMANCE CRITERIA

Payments for firm Capacity are conditioned on the RF/QF's ability to maintain the following performance criteria:

A. Capacity Delivery Date

The Capacity Delivery Date shall be no later than the Required Capacity Delivery Date.

B. Availability and Capacity Factor

The Facility's availability and capacity factor are used in the determination of firm Capacity Payments through a performance based calculation as detailed in Appendix A to the Contract.



SECTION No. IX THIRD REVISED SHEET NO. 9.459 CANCELS SECOND REVISED SHEET NO. 9.459

# METERING REQUIREMENTS

The RF/QFs within the territory served by DEF shall be required to purchase from DEF hourly recording meters to measure their energy deliveries to DEF. Energy purchases from the RF/QFs outside the territory of DEF shall be measured as the quantities scheduled for interchange to DEF by the entity delivering Firm Capacity and Energy to DEF.

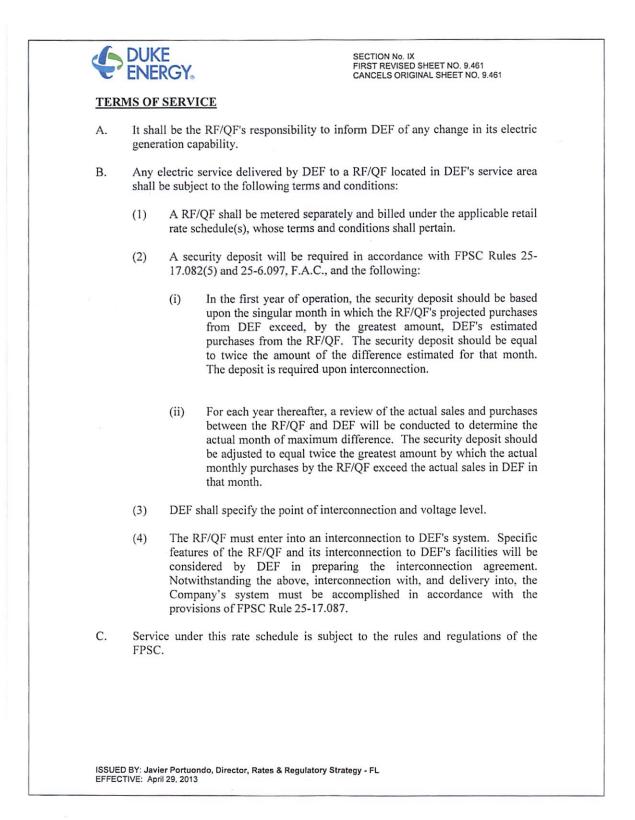
# BILLING OPTIONS

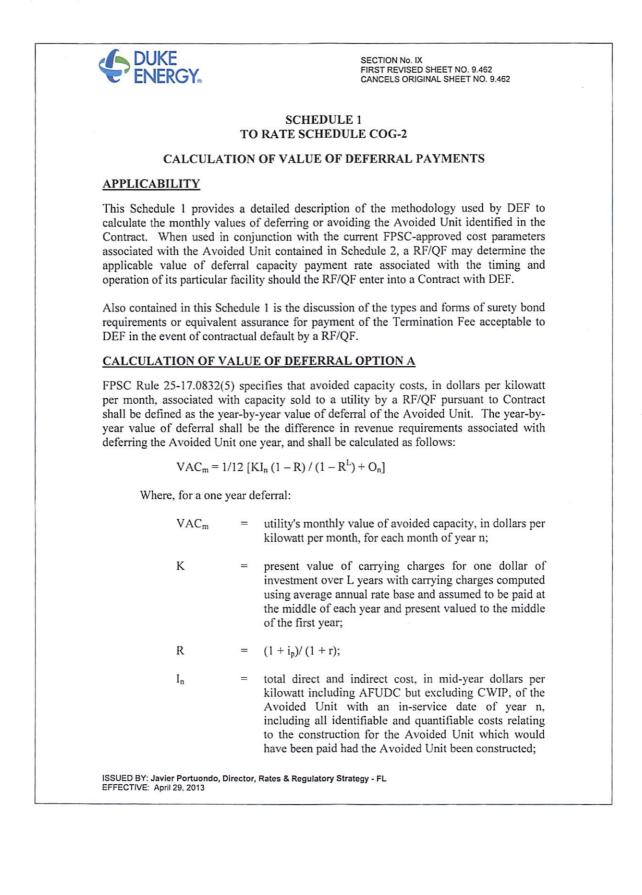
A RF/QF, upon entering into this Contract for the sale of firm capacity and energy or prior to delivery of as-available energy, may elect to make either simultaneous purchases from and sales to DEF, or net sales to DEF; provided, however, that no such arrangement shall cause the RF/QF to sell more than the Facility's net output. A decision on billing methods may only be changed: 1) when a RF/QF selling as-available energy enters into this Contract for the sale of firm capacity and energy; 2) when a Contact expires or is lawfully terminated by either the RF/QF or DEF; 3) when the RF/QF is selling as-available energy and has not changed billing methods within the last twelve months; 4) when the election to change billing methods will not contravene the provisions of FPSC Rule 25-17.0832 or a contract between the RF/QF and DEF.

If a RF/QF elects to change billing methods, such changes shall be subject to the following: 1) upon at least thirty days advance written note to DEF; 2) the installation by DEF of any additional metering equipment reasonably required to effect the change in billing and upon payment by the RF/QF for such metering equipment and its installation; and 3) upon completion and approval by DEF of any alteration(s) to the interconnection reasonably required to effect the change in billing and upon payment by the RF/QF for such alteration(s).

Payments due a RF/QF will be made monthly and normally by the twentieth business day following the end of the billing period. The kilowatt-hours sold by the RF/QF and the applicable avoided energy rates at which payment are being made shall accompany the payment to the RF/QF.

	, DUKE ENERGY.	SECTION No. IX FOURTH REVISED SHEET NO. 9.460 CANCELS THIRD REVISED SHEET NO. 9.460
CHA	ARGES TO RENEWABLE EN	ERGY PROVIDER
		all applicable charges as currently approved or as they ma rvice Commission, including, but not limited to:
A.	Retail Service Charges	
	may be provided by DEF. Th	ele for all FPSC approved charges for any retail service th e RF/QF shall be billed at the customer charge rate stated ff monthly for the costs of meter reading, billing, and oth
В.	Interconnection Charges	
	entered into with the Transmis	harges are included in the transmission arrangements ssion Provider. Notwithstanding the above, Interconnection e with the provisions of FPSC Rule 25-17.087.
C.	Transmission Charges	
	into with the Transmission Pre-	rges are included in the transmission arrangements entered ovider. Notwithstanding the above, Transmission Charges e provisions of FPSC Rule 25-17.087.





DUKE ENERGY.		SECTION No. IX FIRST REVISED SHEET NO. 9.463 CANCELS ORIGINAL SHEET NO, 9.463
On	=	total fixed operation and maintenance expense for the year n, in mid-year dollars per kilowatt per year, of the Avoided Unit;
i <sub>p</sub>	=	annual escalation rate associated with the plant cost of the Avoided Unit;
i <sub>o</sub>	=	annual escalation rate associated with the operation and maintenance expense of the Avoided Unit;
r	=	annual discount rate, defined as the utility's incremental after-tax cost of capital;
L	=	expected life of the Avoided Unit; and
n	=	year for which the Avoided Unit is deferred starting with the Avoided Unit In-Service Date and ending with the Termination Date.

# CALCULATION OF FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY-OPTION B

Under the fixed value of deferral Option A, payments for firm capacity shall not commence until the in-service date of the Avoided unit(s). At the option of the RF/QF, however, DEF may begin making payments for capacity consisting of the capital cost component of the value of a year-by-year deferral of the Avoided Unit prior to the anticipated in-service date of the Avoided Unit. When such payments for capacity are elected, the avoided capital cost component of Capacity Payments shall be paid monthly commencing no earlier than the Capacity Delivery Date of the RF/QF, and shall be calculated as follows:

$$A_{M} = [A_{c} (1 + i_{n})^{(m-1)} + A_{o} (1 + i_{o})^{(m-1)}] / 12$$
 for m = 1 to t

Where:

 $A_M$ 

ip

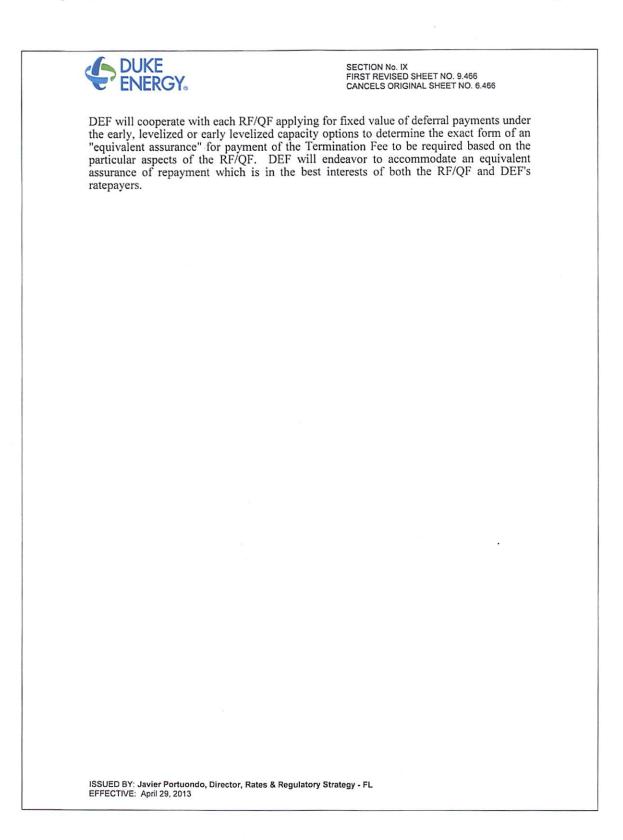
io

monthly payments to be made to the RF/QF for each month of the contract year n, in dollars per kilowatt per month in which RF/QF delivers capacity pursuant to the early capacity option;

- annual escalation rate associated with the plant cost of the Avoided Unit;
- annual escalation rate associated with the operation and maintenance expense of the Avoided Unit;

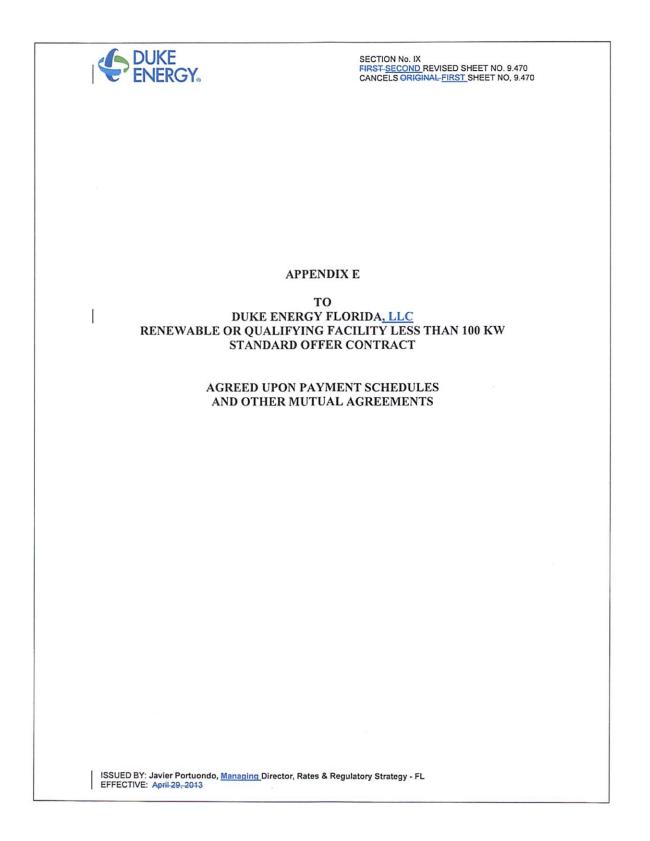
	6	SECTION No. IX FIRST REVISED SHEET NO. 9.464 CANCELS ORIGINAL SHEET NO, 9.464
m	=	year for which the fixed value of deferral payments under the early capacity option are made to a RF/QF, starting in year one and ending in the year t;
t	=	the Term, in years, of the Contract:
Ac	=	F[(1-R)/(1-R')]
Where:		
F	=	the cumulative present value, in the year that the contractual payments will begin, of the avoided capital cost component of Capacity Payments which would have been made had Capacity Payments commenced with the Avoided Unit In-Service Date;
R	=	$(1 + i_p)/(1 + r)$
r	=	annual discount rate, defined as DEF's incremental after- tax cost of capital; and
Ao	=	$G[(1-R)/(1-R^{t})]$ .
Where:		
G	=	The cumulative present value, in the year that the contractual payments will begin, of the avoided fixed operation and maintenance expense component of Capacity Payments which would have been made had Capacity Payments commenced with the Avoided Unit In-Service Date.
R	=	$(1 + i_o)/(1 + r)$
The currently app	roved parar	meters applicable to the formulas above are found in Schedule 2.
	D EARLY I	VALUE OF DEFERRAL PAYMENTS - LEVELIZED CAPACITY - OPTION C & OPTION D,
Monthly fixed valu be calculated as fol		l payments for levelized and early levelized capacity shall
ISSUED BY: Javier Portu EFFECTIVE: April 29, 20		Rates & Regulatory Strategy - FL

	8	SECTION No. IX FIRST REVISED SHEET NO. 9.465 CANCELS ORIGINAL SHEET NO. 9.465					
P <sub>L</sub> =	$P_L = (F / 12) \cdot [r / 1 - (1 + r)^{-t}] + O$						
Where:							
PL	=	the monthly levelized capacity payment, starting on or prior to the in-service date of DEF's Avoided Unit(s):					
F	=	the cumulative present value, in the year that the contractual payments will begin, of the avoided capital cost component of the Capacity Payments which would have been made had the Capacity Payments not been levelized;					
г	=	the annual discount rate, defined as DEF's incremental after-tax cost of capital;					
t	=	the Term, in years of the Contract					
O	=	the monthly fixed operation and maintenance component of the Capacity Payments, calculated in accordance with calculation of the fixed value of deferral payments for the levelized capacity or the early levelized capacity options.					
RISK-RELATED	GUARAN	TEES					
17.091, FPSC Rul payments - early ca RF/QF must provid Termination Fee in Contract. Depend solvency, and its a	With the exception of governmental solid waste facilities covered by FPSC Rule 25- 17.091, FPSC Rule 25-17.0832 (4)(e)10 requires that, when fixed value of deferral payments - early capacity, levelized capacity, or early levelized capacity are elected, the RF/QF must provide a surety bond or equivalent assurance of securing the payment of a Termination Fee in the event the RF/QF is unable to meet the terms and conditions of its Contract. Depending on the nature of the RF/QF's operation, financial health and solvency, and its ability to meet the terms and conditions of the Contract, one of the following may constitute an equivalent assurance of payment:						
(1) Bon	d;						
<ul> <li>(3) Unc</li> <li>(4) Uns</li> <li>payr</li> <li>conj</li> <li>allo</li> <li>gova</li> <li>cust</li> <li>leve</li> <li>(5) Uns</li> <li>early</li> </ul>	<ul> <li>(3) Unconditional, irrevocable, direct pay Letter of Credit;</li> <li>(4) Unsecured promise by a municipal, county or state government to repay payments for early or levelized capacity in the event of default, in conjunction with a legally binding commitment from such government allowing the utility to levy a surcharge on either the electric bills of the government's electricity consuming facilities or the constituent electric customers of such government to assure that payments for early or levelized capacity are repaid;</li> </ul>						
com payr	pany, and/o nents for ear	or subsidiary companies located in Florida to assure that rly, levelized or early levelized capacity are repaid; or s acceptable to DEF.					
ISSUED BY: Javier Portu EFFECTIVE: April 29, 20		Rates & Regulatory Strategy - FL					



			0. 9.467		
	TO	SCHEDULE 2 RATE SCHEDULE COG-2CAPACITY OPTION	PARAMETE	RS	
	FIXED VALUE OF DEFERRAL PAYMENTS - NORMAL CAPACITY OPTION PARAMETERS				
Whe	Where, for one year deferral:				
				Value	
VACm	=	DEF's value of avoided capacity and O&M, in kilowatt per month, during month m;	n dollars per	4. <u>84</u> 37	
ĸ	=	present value of carrying charges for one dollar of over L years with carrying charges computed u annual rate base and assumed to be paid at the mi year and present valued to the middle of the first year	sing average iddle of each	1. <u>284</u> 317	
[n	=	total direct and indirect cost, in mid-year dollars including AFUDC but excluding CWIP, of the A with an in-service date of year n;		<u>767.95</u> 697.2	
0,	=	total fixed operation and maintenance expense, for mid-year dollars per kilowatt per year, of the Avoid		3. <u>85</u> 67	
l <sub>p</sub>	=	annual escalation rate associated with the plant Avoided Unit;	cost of the	2.50%	
o	=	annual escalation rate associated with the op maintenance expense of the Avoided Unit;	peration and	2.50%	
r	=	annual discount rate, defined as DEF's incremental of capital;	after-tax cost	<u>7.15</u> 6.85%	
L	=	expected life of the Avoided Unit;		35	
n	=	year for which the Avoided Unit is deferred start Avoided Unit In-Service Date and ending with the Date.		202 <u>7</u> 4	

	EINEI	E SECTION No. IX ELEVENTH TWELFTH REVISED SHEET N CANCELS TENTH <u>ELEVENTH</u> REVISED S NO. 9.468	SHEET
$A_{m}$	=	FIXED VALUE OF DEFERRAL PAYMENTS - EARLY CAPACITY OPTION PARAMETERS monthly avoided capital cost component of Capacity Payments to be made to the RF/QF starting as early as two years prior to the Avoided Unit In-Service Date, in dollars per kilowatt per month;	3. <u>47</u> 13
ip	=	annual escalation rate associated with the plant cost of the Avoided Unit;	2.50%
<sub>n</sub>	=	year for which early Capacity Payments to a RF/QF are to begin;	202 <u>5</u> 2
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 Avoided Unit and continued for a period of 10 years;	2 <u>59.42</u> 76.3 8
<sub>r</sub>	=	annual discount rate, defined as DEF's incremental after-tax cost of capital;	<u>7.15</u> 6.85%
t	=	the Term, in years, of the Contract for the purchase of firm capacity commencing prior to the in-service date of the Avoided Unit;	13
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 Avoided Unit and continued until the Termination Date.	<del>20.80<u>18.40</u></del>



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