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Feb 27 2015

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VIA ELECTRONIC FILING

February 27, 2015

Ms. Gail L. Mount, Chief Clerk North Carolina Utilities Commission 430 North Salisbury Street Dobbs Building Raleigh, North Carolina 27611

Re: Docket No. E-100, Sub 136

Dear Ms. Mount:

Attached for filing in the above referenced docket are the contracts and amendments signed in 2014 between Virginia Electric and Power Company and qualifying facilities. This filing is in accordance with the Order dated May 7, 1987 in Docket No. E-100, Sub 53, which stated that negotiated contracts between a utility and a qualifying facility must be submitted.

Copies of the *confidential* contracts and amendments signed in 2014 between Virginia Electric and Power Company and qualifying facilities will be submitted under separate cover and should be filed *under seal and be protected from public disclosure*.

If you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Horace P. Pavne Senior Counsel

Attachments



AGREEMENT FOR THE SALE OF ELECTRICAL OUTPUT TO VIRGINIA ELECTRIC AND POWER COMPANY

THIS AGREEMENT, effective this 16th day of June , 2014, (the "Effective Date") by and between VIRGINIA ELECTRIC AND POWER COMPANY, a Virginia public service company with its principal office in Richmond, Virginia, doing business in Virginia as Dominion Virginia Power, and in North Carolina as Dominion North Carolina Power, hereinafter called "Dominion North Carolina Power" or "Company", and Bethel Solar LLC, a Delaware Limited Liability Company, with its principal office in Radnor, PA, hereinafter called "Operator", operator of the Bethel Solar Facility, hereinafter called the "Facility":

RECITALS

WHEREAS, the North Carolina Utilities Commission has adopted a rate schedule described in this Agreement below as <u>Schedule 19-FP</u> applicable to Qualifying Facilities (or "QF" as that term is defined in 18 C.F.R. § 292) which can provide Contracted Capacity (a) up to 5000 kW from a hydroelectric generating facility, (b) up to 5000 kW from a generating facility fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind or non-animal forms of biomass, or (c) up to 3000 kW for all other QFs; and

WHEREAS, the parties hereto wish to contract for the sale of electrical output from such a QF to be operated by Operator,

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto contract and agree with each other as follows:

Article 1: Parties' Purchase and Sale Obligations

Dominion North Carolina Power or its agent, assignee, or successor will purchase from Operator all of the electrical output (energy and Contracted Capacity) made available for sale from the Facility on a simultaneous purchase and sale arrangement. In addition, Operator has elected to contract under the FP Method for determining the Company's avoided cost as described more fully in Exhibit C. Operator elects to operate the Facility in the Mode of Operation as specified in Section IV.C (Firm Mode of Operation) of Schedule 19-FP. The Facility is located in Dominion North Carolina Power's retail service area in Bethel, Pitt County, North Carolina.

Article 2: Term and Commercial Operations Date

This Agreement shall commence on the Effective Date and shall continue in effect for a period of 15 years from the Commercial Operations Date ("COD"). The COD shall be the first date that all of the following conditions have been satisfied:

a) The Facility has been permanently constructed, synchronized with and has delivered electrical output to the

Page 2 of 17

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Dominion North Carolina Power system and such action has been witnessed by an authorized Dominion North Carolina Power employee;

- b) After completion of item a) above, Dominion North Carolina Power has received written notice from Operator specifying the Commercial Operations Date and certifying that the Facility is ready to begin commercial operations as a Qualifying Facility;
- c) Operator and Dominion North Carolina Power (or the PJM Interconnection, LLC or other operator of the Dominion North Carolina Power transmission system, as applicable) have executed an Interconnection Agreement to be included herewith as Exhibit A;
- d) Operator has provided to Dominion North Carolina Power Qualifying Facility Certification to be included herewith as Exhibit E; and
- e) Operator either has received from the North Carolina Utilities Commission a Certificate of Public Convenience and Necessity or has filed the notice required by G.S. 62-110.1(g) and Commission Rule 8-65 and is not legally required to obtain such a certificate for the construction and operation of the Facility.

For contract terms of 10 years or more, this Agreement may be renewed at the option of Dominion North Carolina Power on substantially the same terms and conditions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration Dominion North Carolina Power's then avoided cost rates and other relevant factors or (2) set by arbitration.

Article 3: Contracted Capacity

The Facility, consisting of solar panels and 6 inverters, will have a combined nameplate rating of approximately 5200 kW. The Facility's Contracted Capacity shall be 4000 kW.

Article 4: Attachments

The following documents are attached hereto and are made a part hereof:

Exhibit A: Executed Interconnection Agreement (attached for information but not as a part of this Agreement)

- Exhibit B: General Terms and Conditions
- Exhibit C: Schedule 19-FP, Power Purchases from Cogeneration and Small Power Production Qualifying Facilities and applicable to the QF who chooses the FP Method (effective March 28, 2014, sometimes referred to as "Schedule 19-FP" herein)
- Exhibit D: Map and related written description identifying the specific location of the Facility in the City or County designated in ARTICLE 1
- Exhibit E: "Qualifying Facility" Certification (if Facility is less than 1 MW, Owner submission that the Facility qualifies as a Qualifying Facility (QF) under federal law)
- Exhibit F: Certificate of Public Convenience and Necessity or evidence that no such certificate was required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

Article 5: Price

Payments for all energy and Contracted Capacity purchased hereunder shall be determined by the provisions for payments in Schedule 19-FP included herewith as Exhibit C and pursuant to Operator elections within such Schedule 19-FP, if any, as stated in Article 1 hereof. Payments for all energy and Contracted Capacity purchased hereunder shall be on a cents per kilowatt-hour basis.

If Operator elects the Firm Mode of Operation, then for the term of this Agreement Operator shall be paid for firm energy, in accordance with Schedule 19 – FP, effective for usage on March 28, 2014, the 15-year Fixed Long Term Rate as provided for at Section VI.B of Schedule 19-FP. Payments for firm energy will begin on the Commercial Operations Date. All energy delivered per hour above the Contracted Capacity up to 105% of the Contracted Capacity shall be considered non-firm and be paid for at the applicable non-firm rate pursuant to Section V of Schedule 19-FP. No payment shall be made for energy delivered above 105% of the Contracted Capacity. All energy delivered prior to the Commercial Operations Date shall be considered non-firm and paid at the non-firm energy rate. In all cases, such non-firm energy rates will be those in the Schedule 19-FP in effect at the time such energy is delivered.

If Operator elects the Firm Mode of Operation, specified in Section IV.C of Schedule 19-FP, Operator shall be paid for Contracted Capacity on a cents per kilowatt-hour basis as specified in Schedule 19-FP, Section VII. Operator shall not be paid for capacity above the Contracted Capacity level in any hour during which the generation exceeds the Contracted Capacity level specified in Article 3.

Page 4 of 17

Article 6: Reserved

Article 7: Operator's Pre-COD Obligations

After execution of this Agreement and until the Commercial Operations Date, Operator shall prepare a quarterly status report for Dominion North Carolina Power showing the current progress on completing the project. This status report shall be delivered to Dominion North Carolina Power on or before the following dates each year, January 15, April 15, July 15, and October 15. Such status report shall discuss the progress of the project in a format which is acceptable to Dominion North Carolina Power.

The Facility will be considered to have commenced construction on the first day upon which all of the following have occurred: (1) the issuance by Operator to its construction contractor for the Facility of a written unconditional Notice-to-Proceed; (2) the mobilization of major construction equipment and construction facilities on the Facility site; and (3) the commencement of major structural excavation and structural concrete work relating to a major component of the Facility such as the power island consistent with having commenced a continuous process of construction relating to the Facility. Dominion North Carolina Power shall have no obligation to accept a declaration of Commercial Operations prior to April 1, 2015. The anticipated Commercial Operations Date is May 2, 2015.

Article 8: Default and Early Termination

Operator and Dominion North Carolina Power agree that any of the following will be a material breach by the Operator of this Agreement and shall result in Dominion North Carolina Power having the right to immediate cancellation, without a cure period, of this Agreement: (i) failure to commence construction of the Facility, as defined in Article 7 above, and provide Dominion North Carolina Power with written notice thereof by February 21, 2016, (ii) failure to achieve Commercial Operations Date within thirty months of February 21, 2014; provided, however, an Operator may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner, (iii) failure to provide two (2) consecutive status reports pursuant to Article 7 above, (iv) delivery or supply of electrical output to any entity other than Dominion North Carolina Power or its agent, assignee or successor, (v) failure to meet those requirements necessary to maintain Qualifying Facility status, (vi) failure at any time to have in effect a valid Interconnection Agreement with Dominion North Carolina Power (or its successor as operator of the Dominion North Carolina transmission system), (vii) failure to generate and deliver power from the Facility to Dominion North Carolina Power for more than 180 consecutive days, at any time after the Commercial Operations Date, or (viii) failure to maintain QF certification. In the event Operator fails to perform in any way, materially or non-materially, any other obligations not specifically listed above, Operator shall be given notice and thirty (30) days to cure such non-performance. Notwithstanding any cure period, Dominion North Carolina Power shall not be obligated to

purchase any energy or Contract Capacity under this Agreement while any such breach remains uncured. If Operator fails to cure its non-performance within thirty (30) days of Dominion North Carolina Power's notice, Dominion North Carolina Power shall have the right to cancel this Agreement. Operator agrees that if this Agreement is canceled by Dominion North Carolina Power for Operator's non-performance prior to the end of the initial term of this Agreement, then, Dominion North Carolina Power shall have all rights and remedies available at law or in equity.

Article 9: Representations and Warranties

Operator represents and warrants that it has the right to operate the Facility in accordance with the terms of this Agreement. Operator further represents and warrants that all permits, approvals, and/or licenses necessary for the operation of the Facility will be obtained prior to the Commercial Operations Date and shall be maintained throughout the Term of this Agreement. Operator shall, provide such documentation and evidence of such right, permits, approvals and/or licenses as Dominion North Carolina Power may reasonably request, including without limitation air permits, leases and/or purchase agreements.

Article 10: Notices and Payments

All correspondence and payments concerning this Agreement shall be to the addresses below. Either Party may change the address by providing written notice to the other Party.

OPERATOR:	DOMINION NORTH CAROLINA POWER:
Bethel Solar LLC	Virginia Electric and Power Company
Three Radnor Corp. Ctr., Suite 300	Power Contracts (3SE)
100 Matsonford Rd.	5000 Dominion Boulevard
Radnor, PA 19087	Glen Allen, Virginia 23060-6711

Article 11: Integration of Entirety of Agreement

This Agreement is intended by the Parties as the final expression of their Agreement and is intended also as a complete and exclusive statement of the terms of their Agreement with respect to the purchase and sale of electrical output generated by the Facility. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are hereby abrogated and withdrawn.

Page 6 of 17

IN WITNESS WHEREOF, the Parties hereto have caused their names to appear below, signed by authorized representatives as of the date first shown above.

BETHEL SOLAR LLC

By:	En Berk
Title:	Manager
Date:	613114

VIRGINIA ELECTRIC AND POWER COMPANY

LND AUTHORIZER REVIEW THETINE 6/16/14 By: Title: Date:

EXHIBIT A GENERATOR INTERCONNECTION GUIDANCE AND AGREEMENT

Dominion North Carolina Power's procedures for generator interconnection are available through the Internet at the Company's website with draft interconnection agreements for non-FERC jurisdictional generators (as approved by the NCUC included as Attachments 1, 2 and 3 thereto). For FERC jurisdictional generators interconnection shall be in accordance with FERC and PJM requirements.

The specific Internet address for these procedures is <u>https://www.dom.com/dominion-north-carolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf.</u> The Internet site contains links to the Generator Interconnection Procedures along with the Generator Interconnection Request Form. Once an Interconnection Agreement is executed it will be included herewith as part of this Exhibit A.

EXHIBIT B General Terms and Conditions

I - Assignments

Operator agrees not to assign this Agreement without the prior written consent of Dominion North Carolina Power. Dominion North Carolina Power may withhold such consent if it determines, in its sole discretion, that such assignment would not be in the best interests of Dominion North Carolina Power or its customers. Any attempted assignment that Dominion North Carolina Power has not approved in writing shall be null and void and ineffective for all purposes. In the event of assignment by Operator, Operator shall pay Company within thirty (30) days of the effective date of the assignment up to a maximum amount of \$10,000 per assignment; provided, however, assignment of this Agreement by Operator in connection with an initial financing arrangement which is finalized and for which consent of Company is requested within nine months of the Effective Date of this Agreement shall not be subject to the payment requirement provided herein.

II - Indemnity

Operator shall indemnify and save harmless and, if requested by Dominion North Carolina Power, defend Dominion North Carolina Power, its officers, directors and employees from and against any and all losses and claims or demands for damages to real property or tangible personal property (including the property of Dominion North Carolina Power) and injury or death to persons arising out of, resulting from, or in any manner caused by the presence, operation or maintenance of any part of Operator's Facility; provided, however, that nothing herein shall be construed as requiring Operator to indemnify Dominion North Carolina Power for any injuries, deaths or damages caused by the sole negligence of Dominion North Carolina Power. Operator agrees to provide Dominion North Carolina Power written evidence of liability insurance coverage, which is specifically and solely for the Facility, prior to the operation of the Facility. Operator agrees to have Dominion North Carolina Power named as an additional insured, and shall keep such coverage current throughout the term of this Agreement.

III - QF Certification

Operator represents and warrants that its Facility meets the Qualifying Facility requirements established as of the Effective Date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations Part 292), and that it will continue to meet those requirements necessary to remain a Qualifying Facility throughout the term of this Agreement. [Dominion North Carolina Power may require "FERC" QF Certification by adding the following: "Operator agrees to obtain, at Operator's expense, a certification as a "QF" from the Federal Energy Regulatory Commission, in accordance with 18 C.F.R. § 292.207 (b)."] Operator agrees to provide copies, at the time of submittal, of all correspondence and filings with the Federal Energy Regulatory Commission relating to obtaining certification of the Facility as a

"QF". Operator will submit prior to delivery of electrical output from the Facility to Dominion North Carolina Power evidence of Qualifying Facility certification. After the Commercial Operations Date, if requested by Dominion North Carolina Power prior to March 1 of any year, Operator agrees to provide July 1 of the same year to Dominion North Carolina Power for the preceding year sufficient for Dominion North Carolina Power to determine the Operator's continuing compliance with its QF requirements, including but not limited to:

(a) All information required by FERC Form 556.

(b) Copy of the Facility's QF Certification and any subsequent revisions or amendments,

(c) Provide a copy of any contract executed with a thermal host.

(d) Identification of the amount of each type of fuel used per month and average heating value for each type of fuel, which will be used to determine the Total Energy Input. These values should be verifiable by auditing supporting documentation.

(e) Identification of each of the QF's useful thermal output(s) for each month, including temperature, pressure, amount of thermal output delivered, temperature and amount of condensate returned (if applicable) and the conversion to Btus. These values should be verifiable by auditing supporting documentation.

(f) Identification of the QF's useful power output for each month. These values should be verifiable by auditing supporting documentation.

(g) Provide drawings, heat balance diagrams and a sufficiently detailed narrative describing the delivery of useful thermal output including the location, description, and calibration data for all metering equipment used for QF calculations.

(h) Provide any other information which the QF believes will facilitate Dominion North Carolina Power's monitoring of the QF requirements.

(i) Dominion North Carolina Power may request additional information, as needed, to monitor the QF requirements.

IV - Consequential Damages

In no event shall either Party be liable to the other for any special, indirect, incidental or consequential damages whatsoever, except that the foregoing shall not apply to any promises of indemnity or obligations to reimburse the Parties expressly set forth in this Agreement.

V - Amendments, Waivers, Severability and Headings

This Agreement, including the appendices thereto, can be amended only by agreement between the Parties in writing. The failure of either Party to insist in any one or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provisions or the relinquishment of any such right or any other right hereunder. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the Parties shall be deemed to be reduced only as much as may be required to remove the impediment. The headings contained in this Agreement are used solely for convenience and do not constitute a part of the Agreement between the Parties hereto, nor should they be used to aid in any manner in the construction of this Agreement.

VI - Compliance with Laws

Operator covenants that it shall comply with all applicable provisions of Executive Order 11246, as amended; § 503 of the Rehabilitation Act of 1973, as amended; § 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; and implementing regulations set forth in 41 C.F.R. §§ 60.1, 60-250, and 60-741 and the applicable provisions relating to the utilization of small minority business concerns as set forth in 15 U.S.C. § 637, as amended. Operator agrees that the equal opportunity clause set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 250.5 and 41 C.F.R. 60-§741.5 and the clauses relating to the utilization of small and minority business concerns set forth in 15 U.S.C. § 637(d)(3) and 48 C.F.R. § 52-219.9 are hereby incorporated by reference and made a part of this Agreement. If this Agreement has a value of more than \$500,000, Operator shall adopt and comply with a small business and small disadvantaged business subcontracting plan which shall conform to the requirements set forth in 15 U.S.C. § 637(d)(6). The provisions of this section shall apply to Operator only to the extent that:

(a) such provisions are required of Operator under existing law,

(b) Operator is not otherwise exempt from said provisions and

(c) Compliance with said provisions is consistent with and not violative of 42 U.S.C. § 2000 et seq., 42 U.S.C. § 1981 et seq., or other acts of Congress.

VII - Interconnection and Operation

Operator shall be responsible for the design, installation, and operation of its Facility. Operator shall be responsible for obtaining an Interconnection Agreement. Interconnection guidelines and agreement requirements are set forth in Exhibit A of this Agreement.

Operator shall: (a) maintain the Facility and the Interconnection Facilities on Operator's side of the Interconnection Point, except Dominion North Carolina Power-owned Interconnection Facilities, in conformance with all applicable laws and regulations and in accordance with operating procedures; (b) obtain any governmental authorizations and permits required for the construction and operation thereof and keep all such permits and authorizations current and in

effect; and (c) manage the Facility in a safe and prudent manner. If at any time Operator does not hold such authorizations and permits, Dominion North Carolina Power may refuse to accept deliveries of power hereunder.

Dominion North Carolina Power may enter Operator's premises (a) to inspect Operator's protective devices at any reasonable time; (b) to read or test meters and metering equipment; and (c) to disconnect, without notice, the Facility if, in Dominion North Carolina Power's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or Dominion North Carolina Power facilities or other customers' facilities from damage or interference caused by Operator's Facility or lack of properly operating protective devices. Dominion North Carolina Power will endeavor to notify Operator as quickly as practicable if disconnection occurs as provided in (c) above. Any inspection of Operator's protective devices shall not impose on Dominion North Carolina Power any liabilities with respect to the operation, safety or maintenance of such devices.

Operator shall not operate the Facility in parallel with Dominion North Carolina Power's system prior to (a) an inspection of the installed Interconnection Facilities by an authorized Dominion North Carolina Power representative and (b) receiving written authorization from an authorized Dominion North Carolina Power representative to begin parallel operation.

VIII - Metering

Dominion North Carolina Power will meter all electrical output delivered from the Facility on the high voltage side of the step up transformer.

Operator agrees to pay an administrative charge to Dominion North Carolina Power to reflect all reasonable costs incurred by Dominion North Carolina Power for meter reading and billing, also referred to as metering charges. The monthly meter reading and billing charge shall change from time to time when the NCUC approves a different charge in Schedule 19-FP.

In addition, Operator agrees to pay any fees required to provide and maintain leased telephone lines required for meter reading by Dominion North Carolina Power.

IX - Billing and Payment

Dominion North Carolina Power shall read the meter in accordance with its normal meter reading schedule. Within twenty-eight (28) days thereafter, Dominion North Carolina Power shall send Operator payment for energy and Contracted Capacity delivered. At Dominion North Carolina Power's option, (i) Dominion North Carolina Power may make such payments net of the monthly metering charges, Interconnection Facilities charges, and charges for sales of electricity to the Operator, or (ii) Dominion North Carolina Power may invoice Operator for such charges separately. Payment by Dominion North Carolina Power shall include verification showing the billing month's ending meter reading, on-peak and off-peak kWh, and the amount paid. If in any month the monthly metering and Interconnection Facilities charges are in excess of any payments due Operator, Dominion North Carolina Power shall bill Operator for the difference and Operator shall make such payment within 28 days of the invoice date. Failure by Operator to make such

payments may result in disconnection of the Facility. In no event shall such disconnection relieve Operator of its obligation to pay monthly metering charges and Interconnection Facilities charges under this Agreement.

In the event that any data required for billing purposes hereunder are unavailable when required for such billing, the unavailable data shall be estimated by Dominion North Carolina Power, based upon historical data. Such billing shall be subject to any required adjustment in a subsequent billing month.

Operator agrees that Dominion North Carolina Power shall be entitled to withhold sufficient amounts due pursuant to this Agreement to offset (a) any damages to Dominion North Carolina Power resulting from any breach of this Agreement by Operator, and (b) any other amounts Operator owes Dominion North Carolina Power, including amounts arising from sales of electricity by Dominion North Carolina Power to Operator, metering charges and Interconnection Facilities charges.

In no event shall Dominion North Carolina Power be liable to Operator for any Contracted Capacity payments in excess of the amounts contracted for herein, regardless of the ultimate length of this Agreement or revisions to Schedule 19-FP or successor schedules. Operator hereby agrees to accept the Contracted Capacity payments as set forth herein as its sole and complete compensation for delivery of Contracted Capacity to Dominion North Carolina Power.

X - Force Majeure

Neither Party shall be considered in default under this Agreement or responsible to the other Party in tort, strict liability, contract or other legal theory for damages of any description for any interruption or failure of service or deficiency in the quality or quantity of service or any other failure to perform any of its obligations hereunder to the extent such failure occurs without fault or negligence on the part of that Party and is caused by factors beyond that Party's reasonable control, which by the exercise of reasonable diligence that Party is unable to prevent, avoid, mitigate or overcome, including without limitation storm, flood, lightning, earthquake, explosion, equipment failure, civil disturbance, labor dispute, act of God or public enemy, action or inaction of a court or public authority, fire, sabotage, war, explosion, curtailments, unscheduled withdrawal of facilities from operation for maintenance or repair or any other cause of similar nature beyond the reasonable control of that Party (any such event, "Force Majeure"). Solely economic hardship of either Party shall not constitute Force Majeure under this Agreement. Nor shall anything contained in this paragraph or elsewhere in this Agreement excuse Operator or Dominion North Carolina Power from strict compliance with the obligation of the Parties to comply with the terms of Article IX of this Exhibit B relating to timely payments.

Each Party shall have the obligation to operate in accordance with Good Utility Practice (as defined below) at all times and to use due diligence to overcome and remove any cause of failure to perform.

If a Party relies on the occurrence of an event of Force Majeure described above as a basis for being excused from performance of its obligations under this Agreement, then the Party relying on the Force Majeure event shall:

a) Provide within forty-eight (48) hours written notice of such Force Majeure event or potential Force Majeure to the other Party, giving an estimate of its expected duration and the probable impact on the performance of its obligations hereunder;

b) Exercise all reasonable efforts to continue to perform its obligations under this Agreement;

c) Expeditiously take action to correct or cure the Force Majeure event excusing performance; provided, however, that settlement of strikes or other labor disputes will be completely within the sole discretion of the Party affected by such strike or labor dispute;

d) Exercise all reasonable efforts to mitigate or limit damages to the other Party; and

e) Provide prompt notice to the other Party of the cessation of the Force Majeure event giving rise to its excuse from performance. All performance obligations hereunder shall be extended by a period equal to the term of the resultant delay.

If a Party responding to a Force Majeure event has the ability to obtain, for additional expenditures, expedited material deliveries or labor production which would allow a response to the event in a manner that is above and beyond Good Utility Practice, and such a response could shorten the duration of the Force Majeure event, the Party responding to the event may, at its discretion, present the other Party with the option of funding the expenditures for expediting material deliveries or labor production in an effort to reduce the duration of the event and economic hardship. Each such opportunity will be negotiated on a case-by-case basis by the Parties.

For purposes of this Agreement, "Good Utility Practice" shall mean any of the applicable practices, methods, standards, guides or acts: required by any governmental authority, regional or national reliability council, or national trade organization, including NERC, SERC, or the successor of any of them, as they may be amended from time to time whether or not the Party whose conduct is at issue is a member thereof; otherwise engaged in or approved by a significant portion of the electric utility industry during the relevant time period which in the exercise of reasonable judgment in light of the facts known or that should have been known at the time a decision was made, could have been expected to accomplish the desired result in a manner consistent with law, regulation, good business practices, generation, transmission and distribution reliability, safety, environmental protection, economy and expediency. Good Utility Practice is intended to be acceptable practices, methods, or acts generally accepted in the region, or any other acts or practices as are reasonably necessary to maintain the reliability of the Transmission System (as defined in the Interconnection Agreement), or of the Facility, and is not intended to be limited to the optimum practices, methods, or acts to the exclusion of all others.

Page 14 of 17

EXHIBIT C

Exhibit C is a copy of Schedule 19-FP

EXHIBIT D

Exhibit D is a map and written description identifying the specific location of the Facility and is provided by the Operator.

Facility address is: 341 Price Rd., Bethel, NC 27812

Coordinates are: 35°47'39.58"N 77°23'4.35"W



EXHIBIT E

Exhibit E is the "Qualifying Facility" Certification to be provided by the Operator.

OR

If Facility is less than 1MW, Owner may submit the following statement as Exhibit E that the Facility qualifies as a Qualifying Facility (QF) under federal law.

Federal law exempts small power production or cogeneration facilities with net power production capacities of 1 MW or less from certain certification requirements in order to qualify as a qualifying facility ("QF" or "Qualifying Facility"). Therefore, <u>[QF Name Here]</u> submits the Facility is exempt from the certification requirements, but submits that the Facility qualifies as a Qualifying Facility under federal law set forth in the Public Utility Regulatory Policies Act of 1978 ("PURPA") (codified at 16 U.S.C. § 824a-3).

Name

Title

See attached copy of FERC Form 556.

EXHIBIT F

Exhibit F is the Certificate of Public Convenience and Necessity to be provided by the Operator_{$\frac{1}{2}$} or evidence that no such certificate is required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

See attached Order of the NC Utilities Commission.

Feb 27 2015

I. APPLICABILITY AND AVAILABILITY

This schedule is applicable to any qualifying Cogenerator or Small Power Producer (Qualifying Facility) which desires to deliver all of its net electrical output to the Company, has either (1) generating facilities designated as new capacity as defined by 18 C.F.R. § 292.304(b)(1), or (2) hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), and enters into an agreement for the sale of net electrical output to the Company (Agreement).

This schedule is available to any Qualifying Facility (otherwise eligible pursuant to the terms hereof) that by November 1, 2014 (a) has obtained a certificate of public convenience and necessity for its facility from the Commission or filed a report of proposed construction with the Commission pursuant to Commission Rule 8-65, and (b) has indicated to the Company in writing that it is committed to selling the output of the facility to the Company pursuant to the terms of this schedule.

Where the Qualifying Facility (QF) elects to be compensated for firm deliveries in accordance with this schedule, the amount of capacity under contract and the initial term of contract shall be limited as follows:

- A. Where the QF operates hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), or where the QF operates non-hydroelectric QFs fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind, and non-animal forms of biomass, the amount of capacity subject to compensation shall be no greater than 5,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 5,000 kWh. The initial term of contract for such a QF shall be for a period of 5, 10, or 15 years, at the option of the QF.
- B. Where the QF is not defined under Paragraph I.A., the amount of capacity subject to compensation shall be no greater than 3,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 3,000 kWh. The initial term of contract for such a QF shall be for a period of 5 years.

(Continued)

Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Filed 03-13-14 Electric-North Carolina

Docket No. E-100, Sub 136

Feb 27 2015

(Continued)

I. APPLICABILITY AND AVAILABILITY (Continued)

Where the QF elects to be compensated for firm or non-firm deliveries in accordance with this schedule, the QF must begin deliveries to the Company within thirty months of February 21, 2014 to retain eligibility for the rates contained in this schedule; provided, however, a QF may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner. Where the QF elects an initial contract term of 10 or more years, such contract may be renewed for subsequent term(s), at the Company's option, based on substantially the same terms and provisions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration the Company's then avoided cost rates and other relevant factors or (2) set by arbitration.

This schedule is not applicable to a QF owned by a developer, or affiliate of a developer, who sells power to the Company from another facility located within one-half mile unless: (1) each facility provides thermal energy to different, unaffiliated hosts; (2) each facility provides thermal energy to the same host, and the host has multiple operations with distinctly different or separate thermal needs; or (3) each facility utilizes a renewable resource which may be subject to geographic siting limitations, such as hydroelectric, solar, or wind power facilities.

II. MONTHLY BILLING TO THE QF

All sales to the QF will be in accordance with any applicable filed rate schedule. In addition, where the QF contracts for sales to the Company, the QF will be billed a monthly charge equal to one of the following to cover the cost of meter reading and processing:

(Continued)

Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Filed 03-13-14 Electric-North Carolina

(Continued)

II. MONTHLY BILLING TO THE QF (Continued)

Metering required	Charge
One non-time-differentiated meter	\$17.24
One time-differentiated meter	\$35.55
Two time-differentiated meters	\$41.16

III. DEFINITION OF ON- AND OFF-PEAK HOURS

A. For Option A Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight March 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 10:00 am and 10:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight March 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm., plus 4:00 p.m. through 9:00 p.m., Monday through Friday, excluding holidays considered as off-peak.

(Continued)

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Feb 27 2015

EXHIBIT C

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

III. DEFINITION OF ON- AND OFF-PEAK HOURS (Continued)

B. For Option B Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight May 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 1:00 pm and 9:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight May 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm. Monday through Friday, excluding holidays considered as off-peak.

C. Off-Peak Hours:

The off-peak hours in any month are defined as all hours not specified above as on-peak hours. All hours for the following holidays will be considered as off-peak: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

(Continued)

Filed 03-13-14 Electric-North Carolina

(Continued)

IV. CONTRACT OPTIONS FOR DESIGNATING MODE OF OPERATION

The QF shall designate under contract its Mode of Operation from the following options, each of which determines the Company's method of payment.

- A. The QF may contract for the delivery of energy to the Company without reimbursement, designated as the Non-reimbursement Mode of Operation; or,
- B. The QF may contract for the delivery of non-firm energy to the Company (no payment for capacity). This option includes QFs that elect to contract to deliver non-firm energy to the Company on an as-available basis. Where the QF's generation facilities have an aggregate nameplate rating of designate the 100 kW or less the OF may Non-firm, Non-time-differentiated Mode of Operation. Regardless of nameplate rating the QF may designate the Non-firm, Time-differentiated Mode of Operation.
- C. The QF may contract for the delivery of firm energy and capacity to the Company. The level of capacity which the QF contracts to sell to the Company shall not exceed 5,000 kW, where the QF is defined under Paragraph I.A., or 3,000 kW otherwise. This capacity level, in kW, shall be referred to as the Contracted Capacity. When the QF elects to sell firm energy and capacity, the QF shall designate the Firm Mode of Operation.

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY

The QF may contract to receive payment for energy at rates to be determined with each revision of this schedule. These rates will be based upon the QF's Mode of Operation as described below. There are no capacity payments for the QFs that contract for non-firm energy.

(Continued)

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(Continued)

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY (Continued)

- A. Non-reimbursement Mode of Operation. Where the QF designates the Non-Reimbursement Mode of Operation, no payment will be made for energy delivered.
- B. Non-time-differentiated Mode of Operation. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less and the QF designates the Non-Firm, Non-time-differentiated Mode of Operation, the following rates in cents per kWh are applicable:

3.843

C. Time-differentiated Mode of Operation. Where the QF designates the Time-differentiated Mode of Operation, the following On- and Off-peak rates in cents per kWh are applicable:

On-peak	4.541
Off-peak	3.455

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except that upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

(Continued)

Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Filed 03-13-14 Electric-North Carolina

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY

QFs designating the Firm Mode of Operation will be eligible to receive purchase payments for the delivery of firm energy by the QF to the Company. The QF may contract to receive payments for firm energy based on A or B, below. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

The QF may contract to receive payment for firm time-differentiated energy at rates to be determined with each revision of this schedule (Variable Rate). These rates in cents per kWh, which reflect the Company's estimated avoided energy cost for delivery of firm energy during 2013 or 2014, are as shown in the price tables below:

A. Option A: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

		Fix	ed Long-Ter	m Rate
	Variable Rate	<u>5-Year</u>	<u>10-Year</u>	<u>15-Year</u>
On-Peak (¢/kWh)	4.541	5.055	5.526	5.813
Off-Peak (¢/kWh)	3.455	3.964	4.388	4.661

B. Option B: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

(Continued)

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(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY (Continued)

		1 1/4	a Long Tern	
			-	
	Variable Rate	5-Year	<u>10-Year</u>	<u>15-Year</u>
On-Peak (¢/kWh)	4.663	5.194	5.675	5.962
Off-Peak (¢/kWh)	3.614	4.119	4.549	4.824

Fixed Long-Term Rate

Any energy delivered above 100% up to 105% of QF's Contracted Capacity in any hour will be purchased at the then applicable non-firm energy rates under Schedule 19-FP. There will be no reimbursement for any energy delivered above 105% of QF's Contracted Capacity.

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY

Company purchases of capacity are applicable only where the QF elects the Firm Mode of Operation. Capacity payments are applicable during on-peak hours only. Such QFs shall receive capacity purchase payments based on the applicable levelized capacity purchase price below, in cents per kWh, corresponding to the contract length in years. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

Filed 03-13-14 Electric-North Carolina

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Option A:

For hydroelectric facilities with no storage capability and no other type of generation:

	Capacity Price		
On-Peak (¢/kWh) Summer	<u>5-Year</u> 5.895	<u>10-Year 15-Year</u> 6.095 6.263	
Off-Peak (¢/kWh) Non-summer	3.930	4.063 4.175	
For all other facilities:			
		Capacity Price	
On-Peak (¢/kWh) Summer	<u>5-Year</u> 3.537	<u>10-Year</u> <u>15-Year</u> 3.657 3.758	

Option B:

Off-Peak (¢/kWh) Non-summer

For hydroelectric facilities with no storage capability and no other type of generation:

2.358

2.438

2.505

	Capacity Price		
On-Peak (¢/kWh) Summer Off-Peak (¢/kWh) Non-summer	<u>5-Year</u> 13.524 5.214	<u>10-Year</u> 13.982 5.390	<u>15-Year</u> 14.368 5.539
For all other facilities:		Car	pacity Price
On-Peak (¢/kWh) Summer Off-Peak (¢/kWh) Non-summer	<u>5-Year</u> 8.115 3.128	<u>10-Year</u> 8.389 3.234	<u>15-Year</u> 8.621 3.323

Filed 03-13-14 Electric-North Carolina

Feb 27 2015

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Payments will be made to the QF by applying the appropriate levelized capacity purchase price above to all kWh delivered to the Company during each on-peak hour, up to the 100% of the Contracted Capacity in such hour. There will be no compensation for capacity in excess of the QF's Contracted Capacity in an hour. This capacity price will be in accordance with the length of rate term for capacity sales so established in the contract.

VIII. PROVISIONS FOR COMPANY PURCHASE OF THE QF GENERATION

- A. The QF shall own and be fully responsible for the costs and performance of the QF's:
 - 1. Generating facility in accordance with all applicable laws and governmental agencies having jurisdiction;
 - 2. Control and protective devices as required by the Company on the QF's side of the meter.
- B. The sale of power to the Company by a QF at avoided cost rates pursuant to this Schedule 19-FP does not convey ownership to the Company of the renewable energy credits or green tags associated with the QF facility.
- C. Upon request by the Company, the Cogenerator or Small Power Producer must demonstrate that the facility is a Qualifying Facility as defined by PURPA.
- D. Interconnection procedures for the QF's generation interconnection are provided through the Internet at the Company's website; <u>http://www.dom.com/dominion-north-carolina-power/customer-service/rat</u> <u>es-and-tariffs/pdf/term24.pdf</u>.

Filed 03-13-14 Electric-North Carolina

Feb 27 2015

EXHIBIT C

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IX. MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER

The provisions of this schedule, including the rates for purchase of energy and Contracted Capacity by the Company, are subject to modification at any time in the manner prescribed by law, and when so modified, shall supersede the rates and provisions hereof. However, payments to QFs with contracts for a specified term at payments established at the time the obligation is incurred shall remain at the payment levels established in their contract with the exception of the line loss percentage applied which shall be the percentage stated in the then-current Schedule 19.

If the QF terminates its contract to provide Contracted Capacity and energy to the Company prior to the expiration of the contract term, the QF shall, in addition to other liabilities, be liable to the Company for excess capacity and energy payments.

Such excess payments will be calculated by taking the difference between (1) the total capacity and energy payments already made by the Company to the QF and (2) capacity and energy payments calculated based on the levelized capacity and energy purchase price found in Paragraph VI and VII corresponding to the highest term option completed by the QF. These excess payments shall also include interest, from the time such excess payments were made, compounded annually at the rate equal to the Company's most current issue of long-term debt at the time of the contract's effective date.

X. TERM OF CONTRACT

The term of contract shall be such as may be mutually agreed upon but for not less than one year.

Filed 03-13-14 Electric-North Carolina

Form 556 Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

General

Questions about completing this form should be sent to Form556@ferc.gov. Information about the Commission's QF program, answers to frequently asked questions about QF requirements or completing this form, and contact information for QF program staff are available at the Commission's QF website, <u>www.ferc.gov/QF</u>. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

Who Must File

Any applicant seeking QF status or recertification of QF status for a generating facility with a net power production capacity (as determined in lines 7a through 7g below) greater than 1000 kW must file a self-certification or an application for Commission certification of QF status, which includes a properly completed Form 556. Any applicant seeking QF status for a generating facility with a net power production capacity 1000 kW or less is exempt from the certification requirement, and is therefore not required to complete or file a Form 556. *See* 18 C.F.R. § 292.203.

How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button ()) for assistance, or contact Commission staff at Form556@ferc.gov.

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at Form556@ferc.gov to discuss the discrepancy before filing.

You must complete all lines in this form unless instructed otherwise. Do not alter this form or save this form in a different format. Incomplete or altered forms, or forms saved in formats other than PDF, will be rejected.

How to File a Completed Form 556

Applicants are required to file their Form 556 electronically through the Commission's eFiling website (see instructions on page 2). By filing electronically, you will reduce your filing burden, save paper resources, save postage or courier charges, help keep Commission expenses to a minimum, and receive a much faster confirmation (via an email containing the docket number assigned to your facility) that the Commission has received your filing.

If you are simultaneously filing both a waiver request and a Form 556 as part of an application for Commission certification, see the "Waiver Requests" section on page 3 for more information on how to file.

Paperwork Reduction Act Notice

This form is approved by the Office of Management and Budget (OMB Control No. 1902-0075, expiration 05/31/2013). Compliance with the information requirements established by the FERC Form No. 556 is required to obtain or maintain status as a QF. See 18 C.F.R. § 131.80 and Part 292. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated burden for completing the FERC Form No. 556, including gathering and reporting information, is as follows: 3 hours for self-certification of a small power production facility, 8 hours for self-certifications of a cogeneration facility, 6 hours for an application for Commission certification of a small power production facility, and 50 hours for an application for Commission certification of a cogeneration facility. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the following: Information Clearance Officer, Office of the Executive Director (ED-32), Federal Energy Regulatory Commission, 888 First Street N.E., Washington, DC 20426; and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (<u>oira_submission@omb.eop.gov</u>). Include the Control No. 1902-0075 in any correspondence.

EXHIBIT

OMB Control # 1902-0075 Expiration 5/31/2013

Electronic Filing (eFiling)

To electronically file your Form 556, visit the Commission's QF website at <u>www.ferc.gov/QF</u> and click the eFiling link.

If you are eFiling your first document, you will need to register with your name, email address, mailing address, and phone number. If you are registering on behalf of an employer, then you will also need to provide the employer name, alternate contact name, alternate contact phone number and and alternate contact email.

Once you are registered, log in to eFiling with your registered email address and the password that you created at registration. Follow the instructions. When prompted, select one of the following QF-related filing types, as appropriate, from the Electric or General filing category.

Filing category	Filing Type as listed in eFiling	Description	
	(Fee) Application for Commission Cert. as Cogeneration QF	Use to submit an application for Commission certification or Commission recertification of a cogeneration facility as a QF.	
	(Fee) Application for Commission Cert. as Small Power QF	Use to submit an application for Commission certification or Commission recertification of a small power production facility as a QF.	
	Self-Certification Notice (QF, EG, FC)	Use to submit a notice of self- certification of your facility (cogeneration or small power production) as a QF.	
Electric	Self-Recertification of Qualifying Facility (QF)	Use to submit a notice of self- recertification of your facility (cogeneration or small power production) as a QF.	
	Supplemental Information or Request	Use to correct or supplement a Form 556 that was submitted with errors or omissions, or for which Commission staff has requested additional information. Do <i>not</i> use this filing type to report new changes to a facility or its ownership; rather, use a self- recertification or Commission recertification to report such changes.	
General	(Fee) Petition for Declaratory Order (not under FPA Part 1)	Use to submit a petition for declaratory order granting a waiver of Commission QF regulations pursuant to 18 C.F.R. §§ 292.204(a) (3) and/or 292.205(c). A Form 556 is not required for a petition for declaratory order unless Commission recertification is being requested as part of the petition.	

You will be prompted to submit your filing fee, if applicable, during the electronic submission process. Filing fees can be paid via electronic bank account debit or credit card.

During the eFiling process, you will be prompted to select your file(s) for upload from your computer.

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Feb 27 2015

Filing Fee

No filing fee is required if you are submitting a self-certification or self-recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(a).

A filing fee is required if you are filing either of the following:

(1) an application for Commission certification or recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(b), or (2) a petition for declaratory order granting waiver pursuant to 18 C.F.R. §§ 292.204(a)(3) and/or 292.205(c).

The current fees for applications for Commission certifications and petitions for declaratory order can be found by visiting the Commission's QF website at <u>www.ferc.gov/QF</u> and clicking the Fee Schedule link.

You will be prompted to submit your filing fee, if applicable, during the electronic filing process described on page 2.

Required Notice to Utilities and State Regulatory Authorities

Pursuant to 18 C.F.R. § 292.207(a)(ii), you must provide a copy of your self-certification or request for Commission certification to the utilities with which the facility will interconnect and/or transact, as well as to the State regulatory authorities of the states in which your facility and those utilities reside. Links to information about the regulatory authorities in various states can be found by visiting the Commission's QF website at www.ferc.gov/QF and clicking the Notice Requirements link.

What to Expect From the Commission After You File

An applicant filing a Form 556 electronically will receive an email message acknowledging receipt of the filing and showing the docket number assigned to the filing. Such email is typically sent within one business day, but may be delayed pending confirmation by the Secretary of the Commission of the contents of the filing.

An applicant submitting a self-certification of QF status should expect to receive no documents from the Commission, other than the electronic acknowledgement of receipt described above. Consistent with its name, a self-certification is a certification *by the applicant itself* that the facility meets the relevant requirements for QF status, and does not involve a determination by the Commission as to the status of the facility. An acknowledgement of receipt of a self-certification, in particular, does not represent a determination by the Commission with regard to the QF status of the facility. An applicant self-certifying may, however, receive a rejection, revocation or deficiency letter if its application is found, during periodic compliance reviews, not to comply with the relevant requirements.

An applicant submitting a request for Commission certification will receive an order either granting or denying certification of QF status, or a letter requesting additional information or rejecting the application. Pursuant to 18 C.F.R. § 292.207(b)(3), the Commission must act on an application for Commission certification within 90 days of the later of the filing date of the application or the filing date of a supplement, amendment or other change to the application.

Waiver Requests

18 C.F.R. § 292.204(a)(3) allows an applicant to request a waiver to modify the method of calculation pursuant to 18 C.F.R. § 292.204(a)(2) to determine if two facilities are considered to be located at the same site, for good cause. 18 C.F.R. § 292.205(c) allows an applicant to request waiver of the requirements of 18 C.F.R. §§ 292.205(a) and (b) for operating and efficiency upon a showing that the facility will produce significant energy savings. A request for waiver of these requirements must be submitted as a petition for declaratory order, with the appropriate filing fee for a petition for declaratory order. Applicants requesting Commission recertification as part of a request for waiver of one of these requirements should electronically submit their completed Form 556 along with their petition for declaratory order, rather than filing their Form 556 as a separate request for Commission recertification. Only the filing fee for the petition for declaratory order must be paid to cover both the waiver request and the request for recertification *if such requests are made simultaneously*.

18 C.F.R. § 292.203(d)(2) allows an applicant to request a waiver of the Form 556 filing requirements, for good cause. Applicants filing a petition for declaratory order requesting a waiver under 18 C.F.R. § 292.203(d)(2) do not need to complete or submit a Form 556 with their petition.

Geographic Coordinates

If a street address does not exist for your facility, then line 3c of the Form 556 requires you to report your facility's geographic coordinates (latitude and longitude). Geographic coordinates may be obtained from several different sources. You can find links to online services that show latitude and longitude coordinates on online maps by visiting the Commission's QF webpage at <u>www.ferc.gov/QF</u> and clicking the Geographic Coordinates link. You may also be able to obtain your geographic coordinates from a GPS device, Google Earth (available free at <u>http://earth.google.com</u>), a property survey, various engineering or construction drawings, a property deed, or a municipal or county map showing property lines.

Filing Privileged Data or Critical Energy Infrastructure Information in a Form 556

The Commission's regulations provide procedures for applicants to either (1) request that any information submitted with a Form 556 be given privileged treatment because the information is exempt from the mandatory public disclosure requirements of the Freedom of Information Act, 5 U.S.C. § 552, and should be withheld from public disclosure; or (2) identify any documents containing critical energy infrastructure information (CEII) as defined in 18 C.F.R. § 388.113 that should not be made public.

If you are seeking privileged treatment or CEII status for any data in your Form 556, then you must follow the procedures in 18 C.F.R. § 388.112. See <u>www.ferc.gov/help/filing-guide/file-ceii.asp</u> for more information.

Among other things (see 18 C.F.R. § 388.112 for other requirements), applicants seeking privileged treatment or CEII status for data submitted in a Form 556 must prepare and file both (1) a complete version of the Form 556 (containing the privileged and/or CEII data), and (2) a public version of the Form 556 (with the privileged and/or CEII data redacted). Applicants preparing and filing these different versions of their Form 556 must indicate below the security designation of this version of their document. If you are *not* seeking privileged treatment or CEII status for any of your Form 556 data, then you should not respond to any of the items on this page.

Non-Public: Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This non-public version of the applicant's Form 556 contains all data, including the data that is redacted in the (separate) public version of the applicant's Form 556.

Public (redacted): Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This public version of the applicants's Form 556 contains all data <u>except</u> for data from the lines indicated below, which has been redacted.

Privileged: Indicate below which lines of your form contain data for which you are seeking privileged treatment

Critical Energy Infrastructure Information (CEII): Indicate below which lines of your form contain data for which you are seeking CEII status

The eFiling process described on page 2 will allow you to identify which versions of the electronic documents you submit are public, privileged and/or CEII. The filenames for such documents should begin with "Public", "Priv", or "CEII", as applicable, to clearly indicate the security designation of the file. Both versions of the Form 556 should be unaltered PDF copies of the Form 556, as available for download from www.ferc.gov/QF. To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above <u>all</u> fields which contain data for which you are seeking non-public status.

The Commission is not responsible for detecting or correcting filer errors, including those errors related to security designation. If your documents contain sensitive information, make sure they are filed using the proper security designation.

EXHIBIT E

Page 4 - Instructions

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

⁻ orm 556	Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

1b Applicant street Three Radnor 100 Matsonfor	address Corporate Center, Suite 300 d Rd.				
1c City		1d State/provi	nce		
Radnor		PA			
1e Postal code	1f Country (if not United States)		1g Telephone number		
19087			(866) 946-3123		
1h Has the instant fa	cility ever previously been certified as a Q	F? Yes 🗙 N	lo		
1i If yes, provide the	docket number of the last known QF filin	g pertaining to th	nis facility: QF13 - 321 - 000		
1j Under which cert	fication process is the applicant making th	nis filing?			
\boxtimes Notice of self-c	ertification A v) A	pplication for Co ee; see "Filing Fee	mmission certification (requires filing e" section on page 3)		
Note: a notice of s QF status. A not notice of self-ce section on page	elf-certification is a notice by the applicant ice of self-certification does not establish a tification to verify compliance. See the "W 3 for more information.	t itself that its fac a proceeding, and Vhat to Expect Fr	ility complies with the requirements for d the Commission does not review a om the Commission After You File"		
1k What type(s) of C	F status is the applicant seeking for its fac	ility? (check all th	nat apply)		
\bigotimes Qualifying sma	ll power production facility status 🛛 🗌 🕻	Qualifying cogene	eration facility status		
1 What is the purpo	se and expected effective date(s) of this fi	ling?			
Original certific	ation; facility expected to be installed by	ai	nd to begin operation on		
Change(s) to a	previously certified facility to be effective	on <u>6/30/14</u>			
(identify type(i) of change(s) below, and describe chang	e(s) in the Miscel	laneous section starting on page 19)		
Name chan	ge and/or other administrative change(s)				
Change in c	wnership ffacting plant aguinmant fual usa navyar	www.eluetian.enue			
Change(s) a	Change(s) affecting plant equipment, fuel use, power production capacity and/or cogeneration thermal output				
Supplement or	correction to a previous filing submitted o	n section startiu	ng on nage 10)		
1m If any of the fell	wing three statements is true, check the	pov(oc) that doce	ribo your cituation and complete the form		
in any of the following three statements is true, check the box(es) that describe your situation and complete the form to the extent possible, explaining any special circumstances in the Miscellaneous section starting on page 19.					
The instant facility complies with the Commission's QF requirements by virtue of a waiver of certain regulations previously granted by the Commission in an order dated orders in the Miscellaneous section starting on page 19)					
\Box The instant facility would comply with the Commission's QF requirements if a petition for waiver submitted concurrently with this application is granted					
The instant fa	cility complies with the Commission's reg of unique or innovative technologies not	ulations, but has contemplated by	special circumstances, such as the the structure of this form, that make ascribe in Misc. section starting on p. 10		

FE	RC Form 556				EXHIBIT E Page 6 - All Facilities		
	2a Name of contact person			2b Telephone nu	mber		
	Eric Blank, Manager			(866) 946-3	3123		
	2c Which of the following describes	the contact person's relation	onship to the ap	 plicant? (check one))		
_	🗌 🗌 Applicant (self) 🛛 🔀 Emplo	oyee, owner or partner of a	pplicant author	zed to represent th	e applicant		
ion	Employee of a company affiliat	ed with the applicant auth	orized to repres	ent the applicant or	n this matter		
lati	Lawyer, consultant, or other representative authorized to represent the applicant on this matter						
nn	2d Company or organization name (if applicant is an individual, check here and skip to line 2e)						
nfc							
ontact	2e Street address (if same as Applica	ant, check here and skip to	line 3a) 🔀				
Ŭ	2f City		2g State/prov	ince			
	2h Postal code	2i Country (if not United)	States)				
	3a Facility name	I					
on	Bethel Solar						
ati	3b Street address (if a street address	does not exist for the facil	ity, check here a	nd skip to line 3c)			
00-	341 Price Rd.			- · · L	_		
ЧГ							
fication an	3c Geographic coordinates: If you in then you must specify the latitud the following formula to convert degrees + (minutes/60) + (second provided a street address for you	ndicated that no street add le and longitude coordinat to decimal degrees from c ds/3600). See the "Geogr Ir facility in line 3b, then sp	ress exists for yo es of the facility legrees, minutes aphic Coordinat ecifying the geo	our facility by checki in degrees (to three and seconds: deci es" section on page graphic coordinate	ing the box in line 3b, e decimal places). Use mal degrees = 4 for help. If you is below is optional.		
denti	Longitude 🗌 East (+) 77	. 385 degrees	Latitude	∑ North (+) ☐ South (-)	35.749 degrees		
<u> </u>	3d City (if unincorporated, check her	re and enter nearest city)	3e State/p	rovince			
	Bethel		NC				
Fac	3f County (or check here for indepen	ndent city) 3g	Country (if not	United States)			
	Pitt						
	Identify the electric utilities that are c	ontemplated to transact w	ith the facility.				
ies	4a Identify utility interconnecting w	ith the facility					
iliti	Virginia Electric and Power Company d/b/a Dominion North Carolina Power						
ng Ut	4b Identify utilities providing wheeling service or check here if none						
ctir	4c Identify utilities purchasing the u	4c Identify utilities purchasing the useful electric power output or check here if none					
sac	Virginia Electric and Power Company d/b/a Dominion North Carolina Power						
Tran	4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none						
	Virginia Electric and Po	wer Company d/b/a	Dominion No	rth Carolina B	Power		
	1						

Page 7 - All Facilities

	vo direct owners with the largest equity interest in the facility.	Electric	utilitv or	lf Yes.
	Full legal names of direct owners	holo com	ding pany	% equity interest
1) E	Sethel Solar LLC	Yes	No 🖂	
2)		Yes	No	
3) _		Yes	No 🗌	
4) _		Yes	No	
5) _		Yes	No	
6) _		Yes	No	
7) _		Yes	No	
8) _		Yes	No	
9) _		Yes	No	
10)_		Yes	No 🗌	
5b U of de 12	pstream (i.e., indirect) ownership as of effective date or operation date: Identify a f the facility that both (1) hold at least 10 percent equity interest in the facility, and efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding cor 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also	all upstream (d (2) are elec mpanies, as d o provide the	i.e., indire tric utilitie lefined in the percenta	ct) owners s, as section
5b U of da 12 ec ar Ch	pstream (i.e., indirect) ownership as of effective date or operation date: Identify a f the facility that both (1) hold at least 10 percent equity interest in the facility, an efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding cor 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also quity interest in the facility held by such owners. (Note that, because upstream or nother, total percent equity interest reported may exceed 100 percent.) neck here if no such upstream owners exist.	all upstream (d (2) are elec mpanies, as d o provide the wners may b	i.e., indire tric utilitie lefined in e percenta e subsidia	ct) owners s, as section ige of ries of one
5b U of 12 ec ar Cł	pstream (i.e., indirect) ownership as of effective date or operation date: Identify a f the facility that both (1) hold at least 10 percent equity interest in the facility, an efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding cor 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Als quity interest in the facility held by such owners. (Note that, because upstream or nother, total percent equity interest reported may exceed 100 percent.) neck here if no such upstream owners exist. Full legal names of electric utility or holding company upstream owners.	all upstream (d (2) are elec mpanies, as d o provide the wners may b	i.e., indire tric utilitie lefined in e percenta e subsidia	ct) owners s, as section ige of ries of one % equity interest
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5b U of 12 ec ar Cf 1) 	pstream (i.e., indirect) ownership as of effective date or operation date: Identify a f the facility that both (1) hold at least 10 percent equity interest in the facility, an efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding cor 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Als quity interest in the facility held by such owners. (Note that, because upstream or nother, total percent equity interest reported may exceed 100 percent.) neck here if no such upstream owners exist.	all upstream (d (2) are elec mpanies, as d o provide the wners may b	i.e., indire tric utilitie lefined in e percenta e subsidia	ct) owners s, as section ige of ries of one % equity interest
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5b U, of da 12 ec ar ar chain and and and and and and and and and an		all upstream (d (2) are elect mpanies, as d o provide the wners may b	i.e., indire tric utilitie lefined in e percenta e subsidia	ct) owners s, as section ige of ries of one % equity interest

Feb 27 2015
FEF	FERC Form 556 Page 8 - All Facilities							
	6a	Describe t	he primary energy input: (cł	neck one ma	ain category ar	nd, if applicable,	one subcategory)	
		Biomas	ss (specify)	R	enewable reso	urces (specify)	Geothermal	
		🗌 L	andfill gas		Hydro pov	wer - river	E Fossil fuel (spec	ify)
			Manure digester gas		Hydro pov	wer - tidal	🗌 Coal (not	waste)
			Aunicipal solid waste		Hydro pov	wer - wave	🗌 Fuel oil/d	iesel
			Sewage digester gas		🛛 Solar - ph	otovoltaic	🗌 Natural g	as (not waste)
		□ V	Vood		Solar - the	ermal	Other fos	sil fuel
			Other biomass (describe on	page 19)	□ Wind		□ (describe	on page 19)
		Waste	(specify type below in line 6	b)	Other ren (describe	ewable resource on page 19)	e 🗌 Other (describe	on page 19)
	6b	If you spec	cified "waste" as the primary	energy inp	ut in line 6a, in	dicate the type	of waste fuel used: (che	eck one)
		Wast	e fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecify one of th	e following)		
			Anthracite culm produced	prior to Jul	y 23, 1985			
			Anthracite refuse that has ash content of 45 percent	an average or more	heat content c	f 6,000 Btu or le	ss per pound and has a	n average
Bituminous coal refuse that has an average heat content of 9,500 Btu per average ash content of 25 percent or more							ı per pound or less and	has an
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Managemen (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that the applicant shows that the latter coal is an extension of that determined by BLM to be waste							been lanagement ovided that ste
nergy l	Coal refuse produced on Federal lands or on Indian lands that has been determined to be BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, pr applicant shows that the latter is an extension of that determined by BLM to be waste Lignite produced in association with the production of montan wax and lignite that becom as a result of such a mining operation						vaste by the ovided that	
ш							and lignite that becom	es exposed
	Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)							
		Waste natural gas from gas or oil wells (describe on page 19 how the gas meets the requirements of 18 C.F.R. § 2.400 for waste natural gas; include with your filing any materials necessary to demonstrate compliance with 18 C.F.R. § 2.400)						
			Materials that a governme	nt agency h	as certified for	disposal by con	nbustion (describe on p	bage 19)
			Heat from exothermic read	tions (desc	ribe on page 1	9)	Residual heat (describe	e on page 19)
			Used rubber tires] Plastic m	aterials	🗌 Refinery o	ff-gas 🗌 Petr	oleum coke
		Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)						
	6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).						ig fossil fuel lity (18 C.F.R. §	
			Fuel	An inj	nual average e out for specifie	nergy d fuel	Percentage of total annual energy input	
			Natural gas			0 Btu/h	0 %]
			Oil-based fuels			0 Btu/h	0 %	
			Coal			0 Btu/h	0 %	

Feb 27 2015

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Indicate the maximum gross and maximum net electric power production capacity of the facility at delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and, lines 7b through 7e are negligible, enter zero for those lines.	the point(s) of /or losses identified in
7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	4,999 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your	
reported parasitic station power.	2 kW
7c Electrical losses in interconnection transformers	10 kW
7d Electrical losses in AC/DC conversion equipment, if any	0 kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	o kW
7f Total deductions from gross power production capacity $= 7b \pm 7c \pm 7d \pm 7a$	0 KVV
1 Total deductions norm gross power production capacity = 70 + 70 + 70 + 70	12.0 kW
7g Maximum net power production capacity = 7a - 7f	
	4,987.0 kW

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

The generating system will be comprised of approximately 19,825 PV modules, attached at a fixed tilt to ground-mounted racks. Each module will have a nominal power capacity of 290 Wp (DC). The entire system will have a nominal power capacity of 5,749,250 Wp (DC) with a DC/AC ratio of 1.15, yielding a maximum gross power production capacity of 4,999,348 Wp (AC). The system will utilize 10 pad-mounted inverters, each with a nominal power capacity of 500 kW (AC). The system will be interconnected to the electrical distribution network operated by Dominion North Carolina Power. The entire facility will be enclosed within a security fence.

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Feb 27 2015

Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable). 8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest. Certification of Compliance Check here if no such facilities exist. Root docket # **Facility location** Maximum net power with Size Limitations (city or county, state) (if any) Common owner(s) production capacity 1) QF kW 2) QF kW 3) OF kW Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed 8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? Yes (continue at line 8c below) No (skip lines 8c through 8e) 8c Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes No 8d Did construction of the facility commence on or before December 31, 1999? Yes No 8e If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility. Pursuant to 18 C.F.R. § 292.204(b), gualifying small power production facilities may use fossil fuels, in minimal with Fuel Use Reguirements Certification of Compliance amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter. 9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel: Applicant certifies that the facility will use fossil fuels *exclusively* for the purposes listed above. 9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually: Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 $\left| \right\rangle$ percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.

2015

Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

	Pursuant to 18 C.F.R. § 29 energy (such as heat or s use of energy. Pursuant cycle cogeneration facilit thermal application or po 292.205(a); or (2) for a bo application or process fo	92.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping-ty, the use of reject heat from a power production process in sufficient amounts in a rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § ottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal or power production.
	10a What type(s) of cog	eneration technology does the facility represent? (check all that apply)
	Topping-cycle	cogeneration Bottoming-cycle cogeneration
	10b To help demonstration other requirements balance diagram de meet certain requir below to certify that	te the sequential operation of the cogeneration process, and to support compliance with s such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and ements, as described below. You must check next to the description of each requirement it you have complied with these requirements.
	Check to certify compliance with	
	indicated requirement	Requirement
ration ۲		Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
gene		Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.
eral Coo		Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.
iene		Diagram must specify average gross electric output in kW or MW for each generator.
9		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		Diagram must specify working fluid flow conditions at make-up water inputs.

Feb 27 201

EXHIBIT E Page 12 - Cogeneration Facilities

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Feb 27 2015

EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.

11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No

11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No

If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.

11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?

Yes (continue at line 11d below)

No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.

11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?

Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.

No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.

11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?

Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.

No. Applicant certifies that energy will *not* be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of

18 C.F.R. § 292.205(d) before selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.

11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?

Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.

No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.

EPAct 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities

EXHIBIT E Page 13 - Cogeneration Facilities

OFFICIAL COPY Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the

Feb 27 2015

18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2).

11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal	
generation plant losses and parasitic loads) expected to be used annually for industrial,	
commercial, residential or institutional purposes and not sold to an electric utility	MWh
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be	
sold to an electric utility	MWh
11i Percentage of total annual energy output expected to be used for industrial,	
commercial, residential or institutional purposes and not sold to a utility	
= 100 * 11g /(11g + 11h)	0 %

11 Is the response in line 11 i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. See Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the relevant annual standard, taking into account expected variations in production conditions.

Usefulness of Topping-Cycle Thermal Output

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.

12a Identify and describe each thermal host, and specify the annual average rate of thermal output made available to each host for each use. For hosts with multiple uses of thermal output, provide the data for each use *in separate rows*. Average annual rate of

	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	thermal output attributable to use (net of heat contained in process return or make-up water)
1)		Select thermal host's relationship to facility	
1)		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
2)		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
5)		Select thermal host's use of thermal output	Btu/h
1)		Select thermal host's relationship to facility	
4)		Select thermal host's use of thermal output	Btu/h
E)		Select thermal host's relationship to facility	
5)		Select thermal host's use of thermal output	Btu/h
6)		Select thermal host's relationship to facility	
0)		Select thermal host's use of thermal output	Btu/h

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Topping-Cycle Operating and Efficiency Value Calculation

EXHIBIT E Page 15 - Topping-Cycle Cogeneration Facilities

Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy input of natural gas and oil to the facility. To demonstrate compliance with the topping-cycle operating and/or efficiency standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below.

If you indicated in line 10a that your facility represents *both* topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13l below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system.

- · ·		
13a Indicate the annual average rate of useful thermal energy output made available		
to the host(s), net of any heat contained in condensate return or make-up water		Btu/h
13b Indicate the annual average rate of net electrical energy output		
		kW
I 3c Multiply line 13b by 3,412 to convert from kW to Btu/h		
	0	Btu/h
3d Indicate the annual average rate of mechanical energy output taken directly off		
of the shaft of a prime mover for purposes not directly related to power production		
this value is usually zero)		hp
I3e Multiply line 13d by 2,544 to convert from hp to Btu/h		
	0	Btu/h
13f Indicate the annual average rate of energy input from natural gas and oil		
		Btu/h
13g Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)		
	0	%
I3h Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f		
	0	%
13i Compliance with operating standard: Is the operating value shown in line 13g gre	eater than or equal to 5	%?
Yes (complies with operating standard) No (does not comply w	ith operating standard))
13j Did installation of the facility in its current form commence on or after March 13, 1	1980?	
Voc. Your facility is subject to the efficiency requirements of 19 C F D & 202.20	E(a)(2) Domonstrate	
compliance with the efficiency requirement by responding to line 13k or 13L	s applicable below	
compliance with the enciency requirement by responding to line 15k of 15i, a	is applicable, below.	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13	l.	
13k Compliance with efficiency standard (for low operating value): If the operating value	alue shown in line 13g	is less
than 15%, then indicate below whether the efficiency value shown in line 13h greater	than or equal to 45%:	
Yes (complies with efficiency standard)	ith efficiency standard)	
13I Compliance with efficiency standard (for high operating value): If the operating v	alue shown in line 13g	is
greater than or equal to 15%, then indicate below whether the efficiency value shown	in line 13h is greater th	nan or
equal to 42.5%:		
Yes (complies with efficiency standard)	ith efficiency standard)	
	in energy standard)	

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.

The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a gualifying bottomingcycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below.

14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in separate rows. Has the energy input to

Name of entity (thermal host)

the thermal host been

	performing the process from which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)
1)		Select thermal host's relationship to facility	Yes No
1)		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No
Z)		Select thermal host's process type	
3)		Select thermal host's relationship to facility	Yes No
		Select thermal host's process type	

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Feb 27 2015

Bottoming-Cycle Operating and

U U U

ue Calculation

EXHIBIT E

Page 17 - Bottoming-Cycle Cogeneration Facilities

Applicants for facilities representing bottoming-cycle technology and for which installation commenced on or after March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standards. Section 292.205(b) of the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard for bottoming-cycle cogeneration facilities: the useful power output of the facility must be no less than 45 percent of the energy input of natural gas and oil for supplementary firing. To demonstrate compliance with the bottoming-cycle efficiency standard (if applicable), or to demonstrate that your facility is exempt from this standard based on the date that installation of the facility began, respond to lines 15a through 15h below.

If you indicated in line 10a that your facility represents *both* topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).

15a	Did installation	of the facility	in its current form	commence on or a	fter March 13, 1980?

Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). Demonstrate compliance with the efficiency requirement by responding to lines 15b through 15h below.

No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.

	kW
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	
	0 Btu/
15d Indicate the annual average rate of mechanical energy output taken	directly off
of the shaft of a prime mover for purposes not directly related to power pr	oduction
(this value is usually zero)	hp
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	
	0 Btu/
15f Indicate the annual average rate of supplementary energy input from	natural gas
oroil	Btu/
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	
	0 %
15h Compliance with efficiency standard: Indicate below whether the eff	iciency value shown in line 15g is greate

Feb 27 2015

Feb 27 2015

Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

Signer identified below certifies the following: (check all items and applicable subitems)

He or she has read the filing, including any information contained in any attached documents, such as cogeneration mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.

He or she possess full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

□ The person on whose behalf the filing is made

An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

- An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made
- A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign

He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

Provide your signature, address and signature date below. Rule 2005(c) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(c)) provides that persons filing their documents electronically may use typed characters representing his or her name to sign the filed documents. A person filing this document electronically should sign (by typing his or her name) in the space provided below.

Your Signature	Your address	Date
	Three Radnor Corporate Center,	
Eric Blank	Suite 300 Radnor, PA 19087	9/30/2013

Audit Notes

Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to*. You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

The purpose of this filing is to report the proposed increase in the size of the generating facility from 1.99MW (AC) to 4.99MW (AC). The ownership and the location of the facility has not changed.

Feb 27 2015

Feb 27 2015

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-2538, SUB 0 DOCKET NO. SP-2538, SUB 1

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BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of Application of Bethel Solar LLC for a Certificate of Public Convenience and Necessity to Construct a 4.99-MW Solar Facility in Pitt County, North Carolina

ORDER ISSUING CERTIFICATE AND ACCEPTING REGISTRATION OF NEW RENEWABLE ENERGY FACILITY

BY THE COMMISSION: On September 30, 2013, Bethel Solar LLC (Applicant) filed an application seeking a certificate of public convenience and necessity pursuant to G.S. 62-110.1(a) for construction of a 4.99-MW_{AC} solar photovoltaic electric generating facility to be located at 341 Price Road in Bethel, Pitt County, North Carolina. The Applicant plans to sell the electricity to Dominion North Carolina Power (DNCP).

Contemporaneously with the application, the Applicant filed a registration statement for a new renewable energy facility. The registration statement included certified attestations that: (1) the facility is in substantial compliance with all federal and state laws, regulations, and rules for the protection of the environment and conservation of natural resources; (2) the facility will be operated as a new renewable energy facility; (3) the Applicant will not remarket or otherwise resell any renewable energy certificates sold to an electric power supplier to comply with G.S. 62-133.8; and (4) the Applicant will consent to the auditing of its books and records by the Public Staff insofar as those records relate to transactions with North Carolina electric power suppliers.

The Applicant indicated in its application that the proposed facility would replace the previously filed report of proposed construction and registration statement for a 1.99-MW_{AC} solar photovoltaic electric generating facility located at the same site in Docket No. SP-2538, Sub 0.

On October 3, 2013, the Commission issued an Order Requiring Publication of Notice, which required the Applicant to (1) publish notice of the application as required by G.S. 62-82(a) and file an affidavit of publication with the Commission, (2) mail a copy of the application and notice, no later than the first date that such notice is published, to the electric utility to which the Applicant plans to sell and distribute the electricity, and (3) file a certificate of service of such mailing to the utility. The Order also specified that if a complaint was received within 10 days after the last date of the publication of the notice, the Commission would schedule a public hearing to determine whether a certificate of public convenience and necessity should be awarded. The Order further specified that if the Commission received no complaints within the time specified above

and if the Commission did not order a hearing upon its own initiative, it would enter an order awarding the certificate of public convenience and necessity.

On November 14, 2013, the State Clearinghouse filed comments. Because of the nature of the comments, the cover letter indicated that no further State Clearinghouse review action by the Commission was required for compliance with the North Carolina Environmental Policy Act.

On February 25, 2014, the Applicant filed a certificate of service stating that the public notice and a copy of the application for a certificate of public convenience and necessity were provided to DNCP.

On February 26, 2014, the Applicant filed a modified certificate of service stating that the public notice and a copy of the application for a certificate of public convenience and necessity were provided to DNCP.

On April 7, 2014, the Applicant filed an affidavit of publication stating that the publication of notice was completed on March 19, 2014. No complaints have been received.

The Public Staff presented this matter to the Commission at its Regular Staff Conference on May 19, 2014. The Public Staff recommended that the Commission approve the application, issue the requested certificate of public convenience and necessity, accept the registration statement, and cancel the report of proposed construction and registration statement originally accepted for the facility.

After careful consideration, the Commission finds good cause to approve the application, issue the attached certificate of public convenience and necessity for the proposed solar photovoltaic electric generating facility, and cancel the report of proposed construction and registration statement originally accepted for the facility. The Commission further finds good cause, based upon the foregoing and the entire record in this proceeding, to accept registration of the facility as a new renewable energy facility. The Applicant shall annually file the information required by Commission Rule R8-66 on or before April 1 of each year and will be required to participate in the NC-RETS REC tracking system (http://www.ncrets.org) in order to facilitate the issuance of RECs.

IT IS, THEREFORE, ORDERED as follows:

1. That the application filed by Bethel Solar LLC for a certificate of public convenience and necessity shall be, and is hereby, approved.

2. That Appendix A shall constitute the certificate of public convenience and necessity issued to Bethel Solar LLC for the 4.99-MW_{AC} solar photovoltaic electric generating facility to be located at 341 Price Road in Bethel, Pitt County, North Carolina.

Feb 27 2015

3. That the registration statement filed by Bethel Solar LLC for its solar photovoltaic facility located in Pitt County, North Carolina, as a new renewable energy facility shall be, and is hereby, accepted.

4. That Bethel Solar LLC shall annually file the information required by Commission Rule R8-66 on or before April 1 of each year.

5. That the report of proposed construction and the registration statement originally accepted for Bethel Solar LLC in Docket No. SP-2538, Sub 0, shall be, and are hereby, cancelled.

6. That the Chief Clerk shall close Docket No. SP-2538, Sub 0.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>20th</u> day of May, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Paige f. morvis

Paige J. Morris, Deputy Clerk

Commissioner ToNola D. Brown-Bland did not participate in this decision.

DOCKET NO. SP-2538, SUB 1

Bethel Solar LLC Three Radnor Corporate Center, Suite 300 100 Matsonford Road Radnor, Pennsylvania 19087

is hereby issued this

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY PURSUANT TO G.S. 62-110.1

for a 4.99-MW AC solar photovoltaic electric generating facility

located at

341 Price Road in Bethel, Pitt County, North Carolina,

subject to all orders, rules, regulations and conditions as are now or may hereafter be lawfully made by the North Carolina Utilities Commission.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>20th</u> day of May, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Paige & morris

Paige J. Morris, Deputy Clerk

Feb 27 2015

Feb 27 2015

AGREEMENT FOR THE SALE OF ELECTRICAL OUTPUT TO VIRGINIA ELECTRIC AND POWER COMPANY

THIS AGREEMENT, effective this $\frac{35^{+}}{day}$ of <u>April</u>, 2014, (the "Effective Date") by and between VIRGINIA ELECTRIC AND POWER COMPANY, a Virginia public service company with its principal office in Richmond, Virginia, doing business in Virginia as Dominion Virginia Power, and in North Carolina as Dominion North Carolina Power, hereinafter called "Dominion North Carolina Power" or "Company", and Conetoe Solar, LLC, a North Carolina limited liability company, with its principal office in Mooresville, North Carolina, hereinafter called "Operator", operator of the Conetoe Solar Facility, hereinafter called the "Facility":

RECITALS

WHEREAS, the North Carolina Utilities Commission has adopted a rate schedule described in this Agreement below as Schedule 19-FP applicable to Qualifying Facilities (or "QF" as that term is defined in 18 C.F.R. § 292) which can provide Contracted Capacity (a) up to 5000 kW from a hydroelectric generating facility, (b) up to 5000 kW from a generating facility fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind or nonanimal forms of biomass, or (c) up to 3000 kW for all other QFs; and

WHEREAS, the parties hereto wish to contract for the sale of electrical output from such a QF to be operated by Operator,

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto contract and agree with each other as follows:

Article 1: Parties' Purchase and Sale Obligations

Dominion North Carolina Power or its agent, assignee, or successor will purchase from Operator all of the electrical output (energy and Contracted Capacity) made available for sale from the Facility on an excess sale arrangement. In addition, Operator has elected to contract under the FP Method for determining the Company's avoided cost as described more fully in Exhibit C. Operator elects to operate the Facility in the Mode of Operation as specified in Section IV.C (Firm Mode of Operation) of Schedule 19-FP. The Facility is located in Dominion North Carolina Power's retail service area in Conetoe, Edgecombe County, North Carolina.

Article 2: Term and Commercial Operations Date

This Agreement shall commence on the Effective Date and shall continue in effect for a period of fifteen (15) years from the Commercial Operations Date ("COD"). The COD shall be the first date that all of the following conditions have been satisfied:

> a) The Facility has been permanently constructed, synchronized with and has delivered electrical output to the

Page 2 of 19

Dominion North Carolina Power system and such action has been witnessed by an authorized Dominion North Carolina Power employee;

- b) After completion of item a) above, Dominion North Carolina Power has received written notice from Operator specifying the Commercial Operations Date and certifying that the Facility is ready to begin commercial operations as a Qualifying Facility;
- c) Operator and Dominion North Carolina Power (or the PJM Interconnection, LLC or other operator of the Dominion North Carolina Power transmission system, as applicable) have executed an Interconnection Agreement to be included herewith as Exhibit A;
- d) Operator has provided to Dominion North Carolina Power Qualifying Facility Certification to be included herewith as Exhibit E; and
- e) Operator either has received from the North Carolina Utilities Commission a Certificate of Public Convenience and Necessity or has filed the notice required by G.S. 62-110.1(g) and Commission Rule 8-65 and is not legally required to obtain such a certificate for the construction and operation of the Facility.

For contract terms of 10 years or more, this Agreement may be renewed at the option of Dominion North Carolina Power on substantially the same terms and conditions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration Dominion North Carolina Power's then avoided cost rates and other relevant factors or (2) set by arbitration.

Article 3: Contracted Capacity

The Facility, consisting of solar panels and five (5) inverters, will have a combined nameplate rating of approximately 5,000 kW. The Facility's Contracted Capacity shall be 5,000 kW net (alternating current or ac).

Article 4: Attachments

The following documents are attached hereto and are made a part hereof:

Exhibit A: Executed Interconnection Agreement (attached for information but not as a part of this Agreement)

Exhibit B: General Terms and Conditions

- Exhibit C: Schedule 19-FP, Power Purchases from Cogeneration and Small Power Production Qualifying Facilities and applicable to the QF who chooses the FP Method (effective March 28, 2014, sometimes referred to as "Schedule-19-FP" herein)
- Exhibit D: Map and related written description identifying the specific location of the Facility in the City or County designated in ARTICLE 1
- Exhibit E: "Qualifying Facility" Certification (if Facility is less than 1 MW, Owner submission that the Facility qualifies as a Qualifying Facility (QF) under federal law)
- Exhibit F: Certificate of Public Convenience and Necessity or evidence that no such certificate was required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

Article 5: Price

Payments for all energy and Contracted Capacity purchased hereunder shall be determined by the provisions for payments in Schedule 19-FP included herewith as Exhibit C and pursuant to Operator elections within such Schedule 19-FP, if any, as stated in Article 1 hereof. Payments for all energy and Contracted Capacity purchased hereunder shall be on a cents per kilowatt-hour basis.

If Operator elects the Firm Mode of Operation, then for the term of this Agreement Operator shall be paid for firm energy, in accordance with Schedule 19 – FP, effective for usage on March 28, 2014, the 15-year Fixed Long-Term Rate as provided for at Section VI.B of Schedule 19-FP. Payments for firm energy will begin on the Commercial Operations Date. All energy delivered per hour above the Contracted Capacity up to 105% of the Contracted Capacity shall be considered non-firm and be paid for at the applicable non-firm rate pursuant to Section V of Schedule 19-FP. No payment shall be made for energy delivered above 105% of the Contracted Capacity. All energy delivered prior to the Commercial Operations Date shall be considered non-firm and paid at the non-firm energy rate. In all cases, such non-firm energy rates will be those in the Schedule 19-FP in effect at the time such energy is delivered.

If Operator elects the Firm Mode of Operation, specified in Section IV.C of Schedule 19-FP, Operator shall be paid for Contracted Capacity on a cents per kilowatt-hour basis as specified in Schedule 19-FP, Section VII. Operator shall not be paid for capacity above the Contracted Capacity level in any hour during which the generation exceeds the Contracted Capacity level specified in Article 3.

Article 6: Reserved

Article 7: Operator's Pre-COD Obligations

After execution of this Agreement and until the Commercial Operations Date, Operator shall prepare a quarterly status report for Dominion North Carolina Power showing the current progress on completing the project. This status report shall be delivered to Dominion North Carolina Power on or before the following dates each year, January 15, April 15, July 15, and October 15. Such status report shall discuss the progress of the project in a format which is acceptable to Dominion North Carolina Power.

The Facility will be considered to have commenced construction on the first day upon which all of the following have occurred: (1) the issuance by Operator to its construction contractor for the Facility of a written unconditional Notice-to-Proceed; (2) the mobilization of major construction equipment and construction facilities on the Facility site; and (3) the commencement of major structural excavation and structural concrete work relating to a major component of the Facility such as the power island consistent with having commenced a continuous process of construction relating to the Facility. Dominion North Carolina Power shall have no obligation to accept a declaration of Commercial Operations prior to May 15, 2014. The anticipated Commercial Operations Date is December 15, 2014.

Article 8: Default and Early Termination

Operator and Dominion North Carolina Power agree that any of the following will be a material breach by the Operator of this Agreement and shall result in Dominion North Carolina Power having the right to immediate cancellation, without a cure period, of this Agreement: (i) failure to commence construction of the Facility, as defined in Article 7 above, and provide Dominion North Carolina Power with written notice thereof by October 31, 2014, (ii) failure to achieve Commercial Operations Date within thirty months of February 21, 2014; provided, however, an Operator may be allowed additional time to begin deliveries of power to the Company if the OF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner, (iii) failure to provide two (2) consecutive status reports pursuant to Article 7 above, (iv) delivery or supply of electrical output to any entity other than Dominion North Carolina Power or its agent, assignee or successor, (v) failure to meet those requirements necessary to maintain Qualifying Facility status, (vi) failure at any time to have in effect a valid Interconnection Agreement with Dominion North Carolina Power (or its successor as operator of the Dominion North Carolina transmission system), (vii) failure to generate and deliver power from the Facility to Dominion North Carolina Power for more than 180 consecutive days, at any time after the Commercial Operations Date, or (viii) failure to maintain QF certification. In the event Operator fails to perform in any way, materially or non-materially, any other obligations not specifically listed above, Operator shall be given notice and thirty (30) days to cure such non-performance. Notwithstanding any cure period, Dominion North Carolina Power shall not be obligated to purchase any energy or Contract Capacity under this Agreement while any such

breach remains uncured. If Operator fails to cure its non-performance within thirty (30) days of Dominion North Carolina Power's notice, Dominion North Carolina Power shall have the right to cancel this Agreement. Operator agrees that if this Agreement is canceled by Dominion North Carolina Power for Operator's non-performance prior to the end of the initial term of this Agreement, then, Dominion North Carolina Power shall have all rights and remedies available at law or in equity.

Article 9: Representations and Warranties

Operator represents and warrants that it has the right to operate the Facility in accordance with the terms of this Agreement. Operator further represents and warrants that all permits, approvals, and/or licenses necessary for the operation of the Facility will be obtained prior to the Commercial Operations Date and shall be maintained throughout the Term of this Agreement. Operator shall, provide such documentation and evidence of such right, permits, approvals and/or licenses as Dominion North Carolina Power may reasonably request, including without limitation air permits, leases and/or purchase agreements.

Article 10: Notices and Payments

All correspondence and payments concerning this Agreement shall be to the addresses below. Either Party may change the address by providing written notice to the other Party.

OPERATOR:

Conetoe Solar, LLC

c/o SunEnergy, LLC

192 Raceway Drive

Mooresville, NC 28117

DOMINION NORTH CAROLINA POWER:

Virginia Electric and Power Company Power Contracts (3SE) 5000 Dominion Boulevard Glen Allen, Virginia 23060-6711

Article 11: Integration of Entirety of Agreement

This Agreement is intended by the Parties as the final expression of their Agreement and is intended also as a complete and exclusive statement of the terms of their Agreement with respect to the purchase and sale of electrical output generated by the Facility. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are hereby abrogated and withdrawn.

OFFICIAL COPY

IN WITNESS WHEREOF, the Parties hereto have caused their names to appear below, signed by authorized representatives as of the date first shown above.

CONETOE SOLAR, LLC

By: Kenny Habul

Title: Managing Member

Date: April 25 2014

VIRGINIA ELECTRIC AND POWER COMPANY

JAMES L. NEAL By:

Title: AUNTORIZO REPRESENTATIVE

Date: 4/30/14

EXHIBIT A

GENERATOR INTERCONNECTION GUIDANCE AND AGREEMENT

Dominion North Carolina Power's procedures for generator interconnection are available through the Internet at the Company's website with draft interconnection agreements for non-FERC jurisdictional generators (as approved by the NCUC included as Attachments 1, 2 and 3 thereto). For FERC jurisdictional generators interconnection shall be in accordance with FERC and PJM requirements.

The specific Internet address for these procedures is <u>https://www.dom.com/dominion-north-</u> <u>carolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf</u>. The Internet site contains links to the Generator Interconnection Procedures along with the Generator Interconnection Request Form. Once an Interconnection Agreement is executed it will be included herewith as part of this Exhibit A.

EXHIBIT B General Terms and Conditions

I - Assignments

Operator agrees not to assign this Agreement without the prior written consent of Dominion North Carolina Power. Dominion North Carolina Power may withhold such consent if it determines, in its sole discretion, that such assignment would not be in the best interests of Dominion North Carolina Power or its customers. Any attempted assignment that Dominion North Carolina Power has not approved in writing shall be null and void and ineffective for all purposes. In the event of assignment by Operator, Operator shall pay Company within thirty (30) days of the effective date of the assignment an amount equal to the actual costs incurred by Company in connection with such assignment up to a maximum amount of \$10,000 per assignment; provided, however, assignment of this Agreement by Operator in connection with an initial financing arrangement which is finalized and for which consent of Company is requested within nine months of the Effective Date of this Agreement shall not be subject to the payment requirement provided herein.

II - Indemnity

Operator shall indemnify and save harmless and, if requested by Dominion North Carolina Power, defend Dominion North Carolina Power, its officers, directors and employees from and against any and all losses and claims or demands for damages to real property or tangible personal property (including the property of Dominion North Carolina Power) and injury or death to persons arising out of, resulting from, or in any manner caused by the presence, operation or maintenance of any part of Operator's Facility; provided, however, that nothing herein shall be construed as requiring Operator to indemnify Dominion North Carolina Power for any injuries, deaths or damages caused by the sole negligence of Dominion North Carolina Power. Operator agrees to provide Dominion North Carolina Power written evidence of liability insurance coverage, which is specifically and solely for the Facility, prior to the operation of the Facility. Operator agrees to have Dominion North Carolina Power named as an additional insured, and shall keep such coverage current throughout the term of this Agreement.

III - QF Certification

Operator represents and warrants that its Facility meets the Qualifying Facility requirements established as of the Effective Date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations Part 292), and that it will continue to meet those requirements necessary to remain a Qualifying Facility throughout the term of this Agreement. [Dominion North Carolina Power may require "FERC" QF Certification by adding the following: "Operator agrees to obtain, at Operator's expense, a certification as a "QF" from the Federal Energy Regulatory Commission, in accordance with 18 C.F.R. § 292.207 (b)."] Operator agrees to provide copies, at the time of submittal, of all correspondence and filings with the Federal Energy Regulatory Commission relating to obtaining certification of the

Facility as a "QF". Operator will submit prior to delivery of electrical output from the Facility to Dominion North Carolina Power evidence of Qualifying Facility certification. After the Commercial Operations Date, if requested by Dominion North Carolina Power prior to March 1 of any year, Operator agrees to provide July 1 of the same year to Dominion North Carolina Power for the preceding year sufficient for Dominion North Carolina Power to determine the Operator's continuing compliance with its QF requirements, including but not limited to:

(a) All information required by FERC Form 556.

(b) Copy of the Facility's QF Certification and any subsequent revisions or amendments,

(c) Provide a copy of any contract executed with a thermal host.

(d) Identification of the amount of each type of fuel used per month and average heating value for each type of fuel, which will be used to determine the Total Energy Input. These values should be verifiable by auditing supporting documentation.

(e) Identification of each of the QF's useful thermal output(s) for each month, including temperature, pressure, amount of thermal output delivered, temperature and amount of condensate returned (if applicable) and the conversion to Btus. These values should be verifiable by auditing supporting documentation.

(f) Identification of the QF's useful power output for each month. These values should be verifiable by auditing supporting documentation.

(g) Provide drawings, heat balance diagrams and a sufficiently detailed narrative describing the delivery of useful thermal output including the location, description, and calibration data for all metering equipment used for QF calculations.

(h) Provide any other information which the QF believes will facilitate Dominion North Carolina Power's monitoring of the QF requirements.

(i) Dominion North Carolina Power may request additional information, as needed, to monitor the QF requirements.

IV - Consequential Damages

In no event shall either Party be liable to the other for any special, indirect, incidental or consequential damages whatsoever, except that the foregoing shall not apply to any promises of indemnity or obligations to reimburse the Parties expressly set forth in this Agreement.

V - Amendments, Waivers, Severability and Headings

Page 10 of 19

This Agreement, including the appendices thereto, can be amended only by agreement between the Parties in writing. The failure of either Party to insist in any one or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provisions or the relinquishment of any such right or any other right hereunder. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the Parties shall be deemed to be reduced only as much as may be required to remove the impediment. The headings contained in this Agreement are used solely for convenience and do not constitute a part of the Agreement between the Parties hereto, nor should they be used to aid in any manner in the construction of this Agreement.

VI - Compliance with Laws

Operator covenants that it shall comply with all applicable provisions of Executive Order 11246, as amended; § 503 of the Rehabilitation Act of 1973, as amended; § 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; and implementing regulations set forth in 41 C.F.R. §§ 60.1, 60-250, and 60-741 and the applicable provisions relating to the utilization of small minority business concerns as set forth in 15 U.S.C. § 637, as amended. Operator agrees that the equal opportunity clause set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 250.5 and 41 C.F.R. 60-§741.5 and the clauses relating to the utilization of small and minority business concerns set forth in 15 U.S.C. § 637(d)(3) and 48 C.F.R. § 52-219.9 are hereby incorporated by reference and made a part of this Agreement. If this Agreement has a value of more than \$500,000, Operator shall adopt and comply with a small business and small disadvantaged business subcontracting plan which shall conform to the requirements set forth in 15 U.S.C. § 637(d)(6). The provisions of this section shall apply to Operator only to the extent that:

(a) such provisions are required of Operator under existing law,

(b) Operator is not otherwise exempt from said provisions and

(c) Compliance with said provisions is consistent with and not violative of 42 U.S.C. § 2000 et seq., 42 U.S.C. § 1981 et seq., or other acts of Congress.

VII - Interconnection and Operation

Operator shall be responsible for the design, installation, and operation of its Facility. Operator shall be responsible for obtaining an Interconnection Agreement. Interconnection guidelines and agreement requirements are set forth in Exhibit A of this Agreement.

Operator shall: (a) maintain the Facility and the Interconnection Facilities on Operator's side of the Interconnection Point, except Dominion North Carolina Power-owned Interconnection Facilities, in conformance with all applicable laws and regulations and in accordance with operating procedures; (b) obtain any governmental authorizations and permits

required for the construction and operation thereof and keep all such permits and authorizations current and in effect; and (c) manage the Facility in a safe and prudent manner. If at any time Operator does not hold such authorizations and permits, Dominion North Carolina Power may refuse to accept deliveries of power hereunder.

Dominion North Carolina Power may enter Operator's premises (a) to inspect Operator's protective devices at any reasonable time; (b) to read or test meters and metering equipment; and (c) to disconnect, without notice, the Facility if, in Dominion North Carolina Power's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or Dominion North Carolina Power facilities or other customers' facilities from damage or interference caused by Operator's Facility or lack of properly operating protective devices. Dominion North Carolina Power will endeavor to notify Operator as quickly as practicable if disconnection occurs as provided in (c) above. Any inspection of Operator's protective devices shall not impose on Dominion North Carolina Power any liabilities with respect to the operation, safety or maintenance of such devices.

Operator shall not operate the Facility in parallel with Dominion North Carolina Power's system prior to (a) an inspection of the installed Interconnection Facilities by an authorized Dominion North Carolina Power representative and (b) receiving written authorization from an authorized Dominion North Carolina Power representative to begin parallel operation.

VIII - Metering

Dominion North Carolina Power will meter all electrical output delivered from the Facility on the high voltage side of the step up transformer.

Operator agrees to pay an administrative charge to Dominion North Carolina Power to reflect all reasonable costs incurred by Dominion North Carolina Power for meter reading and billing, also referred to as metering charges. The monthly meter reading and billing charge shall change from time to time when the NCUC approves a different charge in Schedule 19-FP.

In addition, Operator agrees to pay any fees required to provide and maintain leased telephone lines required for meter reading by Dominion North Carolina Power.

IX - Billing and Payment

Dominion North Carolina Power shall read the meter in accordance with its normal meter reading schedule. Within twenty-eight (28) days thereafter, Dominion North Carolina Power shall send Operator payment for energy and Contracted Capacity delivered. At Dominion North Carolina Power's option, (i) Dominion North Carolina Power may make such payments net of the monthly metering charges, Interconnection Facilities charges, and charges for sales of electricity to the Operator, or (ii) Dominion North Carolina Power may invoice Operator for such charges separately. Payment by Dominion North Carolina Power shall include verification showing the billing month's ending meter reading, on-peak and off-peak kWh, and the amount paid. If in any month the monthly metering and Interconnection Facilities charges are in excess of any payments due Operator, Dominion North Carolina Power shall bill Operator for the difference and Operator shall make such payment within 28 days of the invoice date. Failure by Operator to make such payments may result in disconnection of the Facility. In no event shall such disconnection relieve Operator of its obligation to pay monthly metering charges and Interconnection Facilities charges under this Agreement.

In the event that any data required for billing purposes hereunder are unavailable when required for such billing, the unavailable data shall be estimated by Dominion North Carolina Power, based upon historical data. Such billing shall be subject to any required adjustment in a subsequent billing month.

Operator agrees that Dominion North Carolina Power shall be entitled to withhold sufficient amounts due pursuant to this Agreement to offset (a) any damages to Dominion North Carolina Power resulting from any breach of this Agreement by Operator, and (b) any other amounts Operator owes Dominion North Carolina Power, including amounts arising from sales of electricity by Dominion North Carolina Power to Operator, metering charges and Interconnection Facilities charges.

In no event shall Dominion North Carolina Power be liable to Operator for any Contracted Capacity payments in excess of the amounts contracted for herein, regardless of the ultimate length of this Agreement or revisions to Schedule 19-FP or successor schedules. Operator hereby agrees to accept the Contracted Capacity payments as set forth herein as its sole and complete compensation for delivery of Contracted Capacity to Dominion North Carolina Power.

X - Force Majeure

Neither Party shall be considered in default under this Agreement or responsible to the other Party in tort, strict liability, contract or other legal theory for damages of any description for any interruption or failure of service or deficiency in the quality or quantity of service or any other failure to perform any of its obligations hereunder to the extent such failure occurs without fault or negligence on the part of that Party and is caused by factors beyond that Party's reasonable control, which by the exercise of reasonable diligence that Party is unable to prevent, avoid, mitigate or overcome, including without limitation storm, flood, lightning, earthquake, explosion, equipment failure, civil disturbance, labor dispute, act of God or public enemy, action or inaction of a court or public authority, fire, sabotage, war, explosion, curtailments, unscheduled withdrawal of facilities from operation for maintenance or repair or any other cause of similar nature beyond the reasonable control of that Party (any such event, "Force Majeure"). Solely economic hardship of either Party shall not constitute Force Majeure under this Agreement. Nor shall anything contained in this paragraph or elsewhere in this Agreement excuse Operator or Dominion North Carolina Power from strict compliance with the obligation of the Parties to comply with the terms of Article IX of this Exhibit B relating to timely payments.

Page 13 of 19

Each Party shall have the obligation to operate in accordance with Good Utility Practice (as defined below) at all times and to use due diligence to overcome and remove any cause of failure to perform.

If a Party relies on the occurrence of an event of Force Majeure described above as a basis for being excused from performance of its obligations under this Agreement, then the Party relying on the Force Majeure event shall:

a) Provide within forty-eight (48) hours written notice of such Force Majeure event or potential Force Majeure to the other Party, giving an estimate of its expected duration and the probable impact on the performance of its obligations hereunder;

b) Exercise all reasonable efforts to continue to perform its obligations under this Agreement;

c) Expeditiously take action to correct or cure the Force Majeure event excusing performance; provided, however, that settlement of strikes or other labor disputes will be completely within the sole discretion of the Party affected by such strike or labor dispute;

d) Exercise all reasonable efforts to mitigate or limit damages to the other Party; and

e) Provide prompt notice to the other Party of the cessation of the Force Majeure event giving rise to its excuse from performance. All performance obligations hereunder shall be extended by a period equal to the term of the resultant delay.

If a Party responding to a Force Majeure event has the ability to obtain, for additional expenditures, expedited material deliveries or labor production which would allow a response to the event in a manner that is above and beyond Good Utility Practice, and such a response could shorten the duration of the Force Majeure event, the Party responding to the event may, at its discretion, present the other Party with the option of funding the expenditures for expediting material deliveries or labor production in an effort to reduce the duration of the event and economic hardship. Each such opportunity will be negotiated on a case-by-case basis by the Parties.

For purposes of this Agreement, "Good Utility Practice" shall mean any of the applicable practices, methods, standards, guides or acts: required by any governmental authority, regional or national reliability council, or national trade organization, including NERC, SERC, or the successor of any of them, as they may be amended from time to time whether or not the Party whose conduct is at issue is a member thereof; otherwise engaged in or approved by a significant portion of the electric utility industry during the relevant time period which in the exercise of reasonable judgment in light of the facts known or that should have been known at the time a decision was made, could have been expected to accomplish the desired result in a manner consistent with law, regulation, good business practices, generation, transmission and distribution reliability, safety, environmental protection, economy and expediency. Good Utility Practice is intended to be acceptable practices, methods, or acts generally accepted in the region,

Page 14 of 19

or any other acts or practices as are reasonably necessary to maintain the reliability of the Transmission System (as defined in the Interconnection Agreement), or of the Facility, and is not intended to be limited to the optimum practices, methods, or acts to the exclusion of all others.

EXHIBIT C

Exhibit C is a copy of Schedule 19-FP.

OFFICIAL COPY

Feb 27 2015

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

I. APPLICABILITY AND AVAILABILITY

This schedule is applicable to any qualifying Cogenerator or Small Power Producer (Qualifying Facility) which desires to deliver all of its net electrical output to the Company, has either (1) generating facilities designated as new capacity as defined by 18 C.F.R. § 292.304(b)(1), or (2) hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), and enters into an agreement for the sale of net electrical output to the Company (Agreement).

This schedule is available to any Qualifying Facility (otherwise eligible pursuant to the terms hereof) that by November 1, 2014 (a) has obtained a certificate of public convenience and necessity for its facility from the Commission or filed a report of proposed construction with the Commission pursuant to Commission Rule 8-65, and (b) has indicated to the Company in writing that it is committed to selling the output of the facility to the Company pursuant to the terms of this schedule.

Where the Qualifying Facility (QF) elects to be compensated for firm deliveries in accordance with this schedule, the amount of capacity under contract and the initial term of contract shall be limited as follows:

- A. Where the QF operates hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), or where the QF operates non-hydroelectric QFs fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind, and non-animal forms of biomass, the amount of capacity subject to compensation shall be no greater than 5,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 5,000 kWh. The initial term of contract for such a QF shall be for a period of 5, 10, or 15 years, at the option of the QF.
- B. Where the QF is not defined under Paragraph I.A., the amount of capacity subject to compensation shall be no greater than 3,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 3,000 kWh. The initial term of contract for such a QF shall be for a period of 5 years.

(Continued)

Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Filed 03-13-14 Electric-North Carolina

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

I. APPLICABILITY AND AVAILABILITY (Continued)

Where the QF elects to be compensated for firm or non-firm deliveries in accordance with this schedule, the QF must begin deliveries to the Company within thirty months of February 21, 2014 to retain eligibility for the rates contained in this schedule; provided, however, a QF may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner. Where the QF elects an initial contract term of 10 or more years, such contract may be renewed for subsequent term(s), at the Company's option, based on substantially the same terms and provisions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration the Company's then avoided cost rates and other relevant factors or (2) set by arbitration.

This schedule is not applicable to a QF owned by a developer, or affiliate of a developer, who sells power to the Company from another facility located within one-half mile unless: (1) each facility provides thermal energy to different, unaffiliated hosts; (2) each facility provides thermal energy to the same host, and the host has multiple operations with distinctly different or separate thermal needs; or (3) each facility utilizes a renewable resource which may be subject to geographic siting limitations, such as hydroelectric, solar, or wind power facilities.

II. MONTHLY BILLING TO THE QF

All sales to the QF will be in accordance with any applicable filed rate schedule. In addition, where the QF contracts for sales to the Company, the QF will be billed a monthly charge equal to one of the following to cover the cost of meter reading and processing:

(Continued)

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Filed 03-13-14 Electric-North Carolina

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

II. MONTHLY BILLING TO THE QF (Continued)

<u>Charge</u>
\$17.24
\$35.55
\$41.16

III. DEFINITION OF ON- AND OFF-PEAK HOURS

A. For Option A Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight March 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 10:00 am and 10:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight March 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm., plus 4:00 p.m. through 9:00 p.m., Monday through Friday, excluding holidays considered as off-peak.

(Continued)

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Filed 03-13-14 Electric-North Carolina

Feb 27 2015

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

III. DEFINITION OF ON- AND OFF-PEAK HOURS (Continued)

B. For Option B Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight May 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 1:00 pm and 9:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight May 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm. Monday through Friday, excluding holidays considered as off-peak.

C. Off-Peak Hours:

The off-peak hours in any month are defined as all hours not specified above as on-peak hours. All hours for the following holidays will be considered as off-peak: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

(Continued)

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IV. CONTRACT OPTIONS FOR DESIGNATING MODE OF OPERATION

The QF shall designate under contract its Mode of Operation from the following options, each of which determines the Company's method of payment.

- A. The QF may contract for the delivery of energy to the Company without reimbursement, designated as the Non-reimbursement Mode of Operation; or,
- The QF may contract for the delivery of non-firm energy to the Company B. (no payment for capacity). This option includes QFs that elect to contract to deliver non-firm energy to the Company on an as-available basis. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less the QF may designate the Non-firm, Non-time-differentiated Mode of Operation. Regardless of nameplate rating the QF may designate the Non-firm, Time-differentiated Mode of Operation.
- C. The QF may contract for the delivery of firm energy and capacity to the Company. The level of capacity which the QF contracts to sell to the Company shall not exceed 5,000 kW, where the QF is defined under Paragraph I.A., or 3,000 kW otherwise. This capacity level, in kW, shall be referred to as the Contracted Capacity. When the QF elects to sell firm energy and capacity, the QF shall designate the Firm Mode of Operation.

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY

The QF may contract to receive payment for energy at rates to be determined with each revision of this schedule. These rates will be based upon the QF's Mode of Operation as described below. There are no capacity payments for the QFs that contract for non-firm energy.

(Continued)

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY (Continued)

- A. Non-reimbursement Mode of Operation. Where the QF designates the Non-Reimbursement Mode of Operation, no payment will be made for energy delivered.
- B. Non-time-differentiated Mode of Operation. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less and the QF designates the Non-Firm, Non-time-differentiated Mode of Operation, the following rates in cents per kWh are applicable:

3.843

C. Time-differentiated Mode of Operation. Where the QF designates the Time-differentiated Mode of Operation, the following On- and Off-peak rates in cents per kWh are applicable:

On-peak	4.541
Off-peak	3.455

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except that upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

(Continued)

Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Docket No. E-100, Sub 136

Filed 03-13-14 Electric-North Carolina

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION **QUALIFYING FACILITIES**

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY

QFs designating the Firm Mode of Operation will be eligible to receive purchase payments for the delivery of firm energy by the QF to the Company. The QF may contract to receive payments for firm energy based on A or B, below. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

The QF may contract to receive payment for firm time-differentiated energy at rates to be determined with each revision of this schedule (Variable Rate). These rates in cents per kWh, which reflect the Company's estimated avoided energy cost for delivery of firm energy during 2013 or 2014, are as shown in the price tables below:

A. Option A: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

		Fix	ed Long-Terr	n Rate
	Variable Rate	<u>5-Year</u>	<u>10-Year</u>	<u>15-Year</u>
On-Peak (¢/kWh)	4.541	5.055	5.526	5.813
Off-Peak (¢/kWh)	3.455	3.964	4.388	4.661

Β. Option B: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

(Continued)

Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Electric-North Carolina

Docket No. E-100, Sub 136

Filed 03-13-14

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY (Continued)

		Fixe	ed Long-Tern	n Rate
On-Peak (¢/kWh) Off-Peak (¢/kWh)	<u>Variable Rate</u> 4.663 3.614	<u>5-Year</u> 5.194 4.119	<u>10-Year</u> 5.675 4.549	<u>15-Year</u> 5.962 4.824

Any energy delivered above 100% up to 105% of QF's Contracted Capacity in any hour will be purchased at the then applicable non-firm energy rates under Schedule 19-FP. There will be no reimbursement for any energy delivered above 105% of QF's Contracted Capacity.

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY

Company purchases of capacity are applicable only where the QF elects the Firm Mode of Operation. Capacity payments are applicable during on-peak hours only. Such QFs shall receive capacity purchase payments based on the applicable levelized capacity purchase price below, in cents per kWh, corresponding to the contract length in years. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

Filed 03-13-14 Electric-North Carolina Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Option A:

For hydroelectric facilities with no storage capability and no other type of generation:

		Capacity Price	-
	<u>5-Year</u>	<u>10-Year 15-Year</u>	
On-Peak (¢/kWh) Summer	5.895	6.095 6.263	
Off-Peak (¢/kWh) Non-summer	3.930	4.063 4.175	
For all other facilities:		Capacity Price	
	•	Capacity Thee	-
On-Peak (¢/kWh) Summer Off-Peak (¢/kWh) Non-summer	<u>5-Year</u> 3.537 2.358	10-Year15-Year3.6573.7582.4382.505	

Option B:

For hydroelectric facilities with no storage capability and no other type of generation:

		Ca	
On-Peak (¢/kWh) Summer Off-Peak (¢/kWh) Non-summer	<u>5-Year</u> 13.524 5.214	<u>10-Year</u> 13.982 5.390	<u>15-Year</u> 14.368 5.539
For all other facilities:		Car	pacity Price
On-Peak (¢/kWh) Summer Off-Peak (¢/kWh) Non-summer	<u>5-Year</u> 8.115 3.128	<u>10-Year</u> 8.389 3.234	<u>15-Year</u> 8.621 3.323

Filed 03-13-14 Electric-North Carolina Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Payments will be made to the QF by applying the appropriate levelized capacity purchase price above to all kWh delivered to the Company during each on-peak hour, up to the 100% of the Contracted Capacity in such hour. There will be no compensation for capacity in excess of the QF's Contracted Capacity in an hour. This capacity price will be in accordance with the length of rate term for capacity sales so established in the contract.

VIII. PROVISIONS FOR COMPANY PURCHASE OF THE QF GENERATION

- A. The QF shall own and be fully responsible for the costs and performance of the QF's:
 - 1. Generating facility in accordance with all applicable laws and governmental agencies having jurisdiction;
 - 2. Control and protective devices as required by the Company on the QF's side of the meter.
- B. The sale of power to the Company by a QF at avoided cost rates pursuant to this Schedule 19-FP does not convey ownership to the Company of the renewable energy credits or green tags associated with the QF facility.
- C. Upon request by the Company, the Cogenerator or Small Power Producer must demonstrate that the facility is a Qualifying Facility as defined by PURPA.
- D. Interconnection procedures for the QF's generation interconnection are provided through the Internet at the Company's website; <u>http://www.dom.com/dominion-north-carolina-power/customer-service/rat</u> es-and-tariffs/pdf/term24.pdf.

Filed 03-13-14 Electric-North Carolina Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IX. MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER

The provisions of this schedule, including the rates for purchase of energy and Contracted Capacity by the Company, are subject to modification at any time in the manner prescribed by law, and when so modified, shall supersede the rates and provisions hereof. However, payments to QFs with contracts for a specified term at payments established at the time the obligation is incurred shall remain at the payment levels established in their contract with the exception of the line loss percentage applied which shall be the percentage stated in the then-current Schedule 19.

If the QF terminates its contract to provide Contracted Capacity and energy to the Company prior to the expiration of the contract term, the QF shall, in addition to other liabilities, be liable to the Company for excess capacity and energy payments.

Such excess payments will be calculated by taking the difference between (1) the total capacity and energy payments already made by the Company to the QF and (2) capacity and energy payments calculated based on the levelized capacity and energy purchase price found in Paragraph VI and VII corresponding to the highest term option completed by the QF. These excess payments shall also include interest, from the time such excess payments were made, compounded annually at the rate equal to the Company's most current issue of long-term debt at the time of the contract's effective date.

X. TERM OF CONTRACT

The term of contract shall be such as may be mutually agreed upon but for not less than one year.

Filed 03-13-14 Electric-North Carolina Superseding Filing Effective For Usage On and After 05-14-13 On an Interim Basis Pending Final Commission Order In This Docket. This Filing Effective For Usage On and After 03-28-14.

EXHIBIT D

Exhibit D is a map and written description identifying the specific location of the Facility and is provided by the Operator.



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This property is located on NC Hwy 64, near Petes Lane, Conetoe, NC, in Edgecombe County.

EXHIBIT E

Exhibit E is the "Qualifying Facility" Certification to be provided by the Operator.

OR

If Facility is less than 1MW, Owner may submit the following statement as Exhibit E that the Facility qualifies as a Qualifying Facility (QF) under federal law.

Federal law exempts small power production or cogeneration facilities with net power production capacities of 1 MW or less from certain certification requirements in order to qualify as a qualifying facility ("QF" or "Qualifying Facility"). Therefore, [QF Name Here] submits the Facility is exempt from the certification requirements, but submits that the Facility qualifies as a Qualifying Facility under federal law set forth in the Public Utility Regulatory Policies Act of 1978 ("PURPA") (codified at 16 U.S.C. § 824a-3).

Name

Title

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FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 5/31/2013

1a Full name of applicant Conetoe Solar, LI	(legal entity on whose behalf qualify ,C	ving facility statu:	is sought for this facility)
1b Applicant street addre 192 Raceway Drive	55		
1c City Mooresville		1d State/provi North Car	nce olina
1e Postal code , 28117	1f Country (if not United States)		1g Telephone number 704–662–0375
1h Has the instant facility	ever previously been certified as a C	F? Yes N	lo 🔀
11 If yes, provide the dock	et number of the last known QF filin	g pertaining to tl	nis facility: QF
1j Under which certification	on process is the applicant making the	nis filing?	
Notice of self-certific (see note below)	ation 🖉 🛱	pplication for Co ee; see "Filing Fee	mmission certification (requires filing " section on page 3)
Note: a notice of self-cer QF status. A notice of notice of self-certifica section on page 3 for	rtification is a notice by the applican self-certification does not establish tion to verify compliance. See the "V more Information.	t itself that its fac a proceeding, an Vhat to Expect Fr	ility complies with the requirements for d the Commission does not review a om the Commission After You File"
1k What type(s) of QF sta	tus is the applicant seeking for its fac	:ility? (check all t)	nat apply)
🛛 Qualifying small pov	ver production facility status	Qualifying cogen	eration facility status
11 What is the purpose an	d expected effective date(s) of this f	iling?	
Original certification	; facility expected to be installed by	<u>1/31/15</u> a	nd to begin operation on
Change(s) to a previ	ously certified facility to be effective	on	
(identify type(s) of c	hange(s) below, and describe chang	e(s) in the Miscel	laneous section starting on page 19)
Name change an	d/or other administrative change(s)		
Change in owner	rship		
Change(s) affecti	ng plant equipment, fuel use, powe	r production cap	acity and/or cogeneration thermal output
Supplement or correct	ction to a previous filing submitted of	on	
/ / 1 -1 -1	mont of correction in the Miscelland	ous section starti	ng on page 19)
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(describe the supple 1m If any of the following to the extent possible	three statements is true, check the , explaining any special circumstanc	box(es) that desc es in the Miscella	ribe your situation and complete the forn neous section starting on page 19.
(describe the supple 1m If any of the following to the extent possible The instant facility previously granted orders in the Misco	three statements is true, check the , explaining any special circumstanc complies with the Commission's QF I by the Commission in an order dat ellaneous section starting on page 1	box(es) that desc es in the Miscella requirements by ed 9)	ribe your situation and complete the forn neous section starting on page 19. virtue of a waiver of certain regulations (specify any other relevant waiver
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Feb 27 2015

FE	RC Form 556				Page 6 - All Facilities	
	2a Name of contact person	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	<u>1998 2022-002000000000000000000000000000000</u>	2b Telephone r	number	
	Kenny Habul 704-654-7075				075	
	2c Which of the following describes t	the contact person's rela	itionship to the ap	plicant? (check or	ne)	
	🗌 Applicant (self) 🛛 🔀 Emplo	oyee, owner or partner o	f applicant authori	zed to represent (the applicant	
ior	Employee of a company affiliated with the applicant authorized to represent the applicant on this matter					
lat	Lawyer, consultant, or other rep	presentative authorized	to represent the a	oplicant on this m	atter	
νu	2d Company or organization name (If applicant is an individ	ual, check here and	d skip to line 2e)		
nfc	Conetoe Solar, LLC					
t	2e Street address (If same as Applica	nt, check here and skip	to line 3a) 🔀			635
ita(- Sector
, U U						
0	2f City		2g State/prov	ince		
	2h Postal code	2i Country (if not Unite	d States)			
	3a Facility name	<u> </u>			an a	1
on	Conetoe Solar					
ati	3b Street address (if a street address	does not exist for the fa	cility, check here a	ind skip to line 3c		6
ŏ	US Alt 64 and Petes Lane					- Harder
p						
 3c Geographic coordinates: If you indicated that no street address exists for your facility by checking the box in line then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal places) the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = 				cking the box in line 3b, ree decimal places). Use ccimal degrees =		
Lico	provided a street address for you	ir facility in line 3b, then	specifying the geo	graphic coordina	tes below is optional.	
denti	Longitude 🗌 East (+) 77	.457 degrees	Latitude	∑ North (+) □ South (-)	35.825 degrees	
Y le	3d City (if unincorporated, check he	re and enter nearest city	/) 🗌 3e State/p	rovince		
	Conetoe		North Ca	rolina		
a	3f County (or check here for indepen	ndent city)	3g Country (If no	t United States)		2
	Edgecombe					
	Identify the electric utilities that are c	contemplated to transac	t with the facility.		,]
lities	4a Identify utility interconnecting w Dominion North Carolina	rith the facility Power		<u>, </u>		
g Uti	4b Identify utilities providing wheel	ing service or check her	e if none 🛛			0
tin	Ac Identify utilities nurchasing the u	useful electric nower out	put or check bero	fnone 🗔		- Star
Isac	Dominion North Carolina	Power	pacoronaction			
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	Dominion North Carolina	Power				

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EXHIBIT F

Exhibit F is the Certificate of Public Convenience and Necessity to be provided by the Operator, or evidence that no such certificate is required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-751, SUB 21

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of Application of SunEnergy 1, LLC, for a Certificate of Public Convenience and Necessity to Construct a 5-MW Solar Facility in Edgecombe County, North Carolina

ORDER ISSUING CERTIFICATE

BY THE COMMISSION: On August 19, 2013, SunEnergy 1, LLC (Applicant), filed an application seeking a certificate of public convenience and necessity pursuant to G.S. 62-110.1(a) for construction of a 5-MW_{AC} solar photovoltaic electric generating facility to be located between US Highway 64 and Petes Lane in Conetoe, Edgecombe County, North Carolina. The Applicant plans to sell the electricity to Dominion North Carolina Power (DNCP).

On August 23, 2013, the Commission issued an Order Requiring Publication of Notice, which required the Applicant to (1) publish notice of the application as required by G.S. 62-82(a) and file an affidavit of publication with the Commission, (2) mail a copy of the application and notice, no later than the first date that such notice is published, to the electric utility to which the Applicant plans to sell and distribute the electricity, and (3) file a certificate of service of such mailing to the utility. The Order also specified that if a complaint was received within 10 days after the last date of the publication of the notice, the Commission would schedule a public hearing to determine whether a certificate of public convenience and necessity should be awarded. The Order further specified that if the Commission received no complaints within the time specified above, and if the Commission did not order a hearing upon its own initiative, it would enter an order awarding the certificate of public convenience and necessity.

On October 3, 2013, the State Clearinghouse filed comments. Because of the nature of the comments, the cover letter indicated that no further State Clearinghouse review action by the Commission was required for compliance with the North Carolina Environmental Policy Act.

On November 1, 2013, the Applicant filed a certificate of service stating that the public notice and a copy of the application for a certificate of public convenience and necessity were provided to DNCP. Contemporaneously, the Applicant filed an affidavit of publication stating that the publication of notice was completed on September 27, 2013. No complaints have been received.

The Public Staff presented this matter to the Commission at its Regular Staff Conference on January 13, 2014. The Public Staff recommended that the Commission approve the application and issue a certificate of public convenience and necessity.

After careful consideration, the Commission finds good cause to approve the application and issue the attached certificate of public convenience and necessity for the proposed solar photovoltaic electric generating facility.

IT IS, THEREFORE, ORDERED as follows:

1. That the application filed by SunEnergy 1, LLC, for a certificate of public convenience and necessity shall be, and is hereby, granted.

2. That Appendix A shall constitute the certificate of public convenience and necessity issued to SunEnergy 1, LLC, for the 5-MW_{AC} solar photovoltaic electric generating facility to be located between US Highway 64 and Petes Lane in Conetoe, Edgecombe County, North Carolina.

ISSUED BY ORDER OF THE COMMISSION.

This the 15^{th} day of January, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Hail L. Mount

Gail L. Mount, Chief Clerk

APPENDIX A

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-751, SUB 21

SunEnergy 1, LLC 192 Raceway Drive Mooresville, North Carolina 28117

is hereby issued this

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY PURSUANT TO G.S. 62-110.1

for a 5-MW_{AC} solar photovoltaic electric generating facility

located

between US Highway 64 and Petes Lane in Conetoe, Edgecombe County, North Carolina,

subject to all orders, rules, regulations and conditions as are now or may hereafter be lawfully made by the North Carolina Utilities Commission.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>15th day of January</u>, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Hail L. Mount

Gail L. Mount, Chief Clerk

Feb 27 2015

AGREEMENT FOR THE SALE OF ELECTRICAL OUTPUT TO VIRGINIA ELECTRIC AND POWER COMPANY

THIS AGREEMENT, effective this 23 day of 2014 (the "Effective Date") by and between VIRGINIA ELECTRIC AND POWER COMPANY, a Virginia public service company with its principal office in Richmond, Virginia, doing business in Virginia as Dominion Virginia Power, and in North Carolina as Dominion North Carolina Power, hereinafter called "Dominion North Carolina Power" or "Company", and Downs Farm Solar, LLC, a North Carolina limited liability company, with its principal office in Asheville, North Carolina, hereinafter called "Operator", operator of the Downs Farm Facility, hereinafter called the "Facility":

RECITALS

WHEREAS, the North Carolina Utilities Commission has adopted a rate schedule described in this Agreement below as <u>Schedule 19-FP</u> applicable to Qualifying Facilities (or "QF" as that term is defined in 18 C.F.R. § 292) which can provide Contracted Capacity (a) up to 5000 kW from a hydroelectric generating facility, (b) up to 5000 kW from a generating facility fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind or non-animal forms of biomass, or (c) up to 3000 kW for all other QFs; and

WHEREAS, the parties hereto wish to contract for the sale of electrical output from such a QF to be operated by Operator,

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto contract and agree with each other as follows:

Article 1: Parties' Purchase and Sale Obligations

Dominion North Carolina Power or its agent, assignee, or successor will purchase from Operator all of the electrical output (energy and Contracted Capacity) made available for sale from the Facility on an excess sale arrangement. In addition, Operator has elected to contract under the FP Method for determining the Company's avoided cost as described more fully in Exhibit C. Operator elects to operate the Facility in the Mode of Operation as specified in Section IV.C (Firm Mode of Operation) of Schedule 19-FP. The Facility is located in Dominion North Carolina Power's retail service area in Cofield, Hertford County, North Carolina.

Article 2: Term and Commercial Operations Date

This Agreement shall commence on the Effective Date and shall continue in effect for a period of 15 years from the Commercial Operations Date ("COD"). The COD shall be the first date that all of the following conditions have been satisfied:

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- The Facility has been permanently constructed, synchronized with and has delivered electrical output to the Dominion North Carolina Power system and such action has been witnessed by an authorized Dominion North Carolina Power employee;
- b) After completion of item a) above, Dominion North Carolina Power has received written notice from Operator specifying the Commercial Operations Date and certifying that the Facility is ready to begin commercial operations as a Qualifying Facility;
- c) Operator and Dominion North Carolina Power (or the PJM Interconnection, LLC or other operator of the Dominion North Carolina Power transmission system, as applicable) have executed an Interconnection Agreement to be included herewith as Exhibit A;
- d) Operator has provided to Dominion North Carolina Power Qualifying Facility Certification to be included herewith as Exhibit E; and
- e) Operator either has received from the North Carolina Utilities Commission a Certificate of Public Convenience and Necessity or has filed the notice required by G.S. 62-110.1(g) and Commission Rule 8-65 and is not legally required to obtain such a certificate for the construction and operation of the Facility.

For contract terms of 10 years or more, this Agreement may be renewed at the option of Dominion North Carolina Power on substantially the same terms and conditions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration Dominion North Carolina Power's then avoided cost rates and other relevant factors or (2) set by arbitration.

Article 3: Contracted Capacity

The Facility, consisting of Solar panels will have a combined nameplate rating of approximately 6,500 kW dc. The Facility's Contracted Capacity shall be 5,000 kW net to Company (alternating current or ac).

Article 4: Attachments

The following documents are attached hereto and are made a part hereof:

- Exhibit A: Executed Interconnection Agreement (attached for information but not as a part of this Agreement)
- Exhibit B: General Terms and Conditions
- Exhibit C: Schedule 19-FP, Power Purchases from Cogeneration and Small Power Production Qualifying Facilities and applicable to the QF who chooses the FP Method (effective March 28, 2014, sometimes referred to as "Schedule 19-FP" herein)
- Exhibit D: Map and related written description identifying the specific location of the Facility in the City or County designated in ARTICLE 1
- Exhibit E: "Qualifying Facility" Certification (if Facility is less than 1 MW, Owner submission that the Facility qualifies as a Qualifying Facility (QF) under federal law)
- Exhibit F: Certificate of Public Convenience and Necessity or evidence that no such certificate was required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

Article 5: Price

Payments for all energy and Contracted Capacity purchased hereunder shall be determined by the provisions for payments in Schedule 19-FP included herewith as Exhibit C and pursuant to Operator elections within such Schedule 19-FP, if any, as stated in Article 1 hereof. Payments for all energy and Contracted Capacity purchased hereunder shall be on a cents per kilowatt-hour basis.

If Operator elects the Firm Mode of Operation, then for the term of this Agreement Operator shall be paid for firm energy, in accordance with Schedule 19 – FP, effective for usage on March 28, 2014 (as revised on October 30, 2014), the 15-year Fixed Long-Term Rate as provided for at Section VI.B of Schedule 19-FP. Payments for firm energy will begin on the Commercial Operations Date. All energy delivered per hour above the Contracted Capacity up to 105% of the Contracted Capacity shall be considered non-firm and be paid for at the applicable non-firm rate pursuant to Section V of Schedule 19-FP. No payment shall be made for energy delivered above 105% of the Contracted Capacity. All energy delivered prior to the Commercial Operations Date shall be considered non-firm and paid at the non-firm energy rate. In all cases, such non-firm energy rates will be those in the Schedule 19-FP in effect at the time such energy is delivered.

If Operator elects the Firm Mode of Operation, specified in Section IV.C of Schedule 19-FP, Operator shall be paid for Contracted Capacity on a cents per kilowatt-hour basis as specified in Schedule 19-FP, Section VII. Operator shall not be paid for capacity above the Contracted Capacity level in any hour during which the generation exceeds the Contracted Capacity level specified in Article 3.

Article 6: Reserved

Article 7: Operator's Pre-COD Obligations

After execution of this Agreement and until the Commercial Operations Date, Operator shall prepare a quarterly status report for Dominion North Carolina Power showing the current progress on completing the project. This status report shall be delivered to Dominion North Carolina Power on or before the following dates each year, January 15, April 15, July 15, and October 15. Such status report shall discuss the progress of the project in a format which is acceptable to Dominion North Carolina Power.

The Facility will be considered to have commenced construction on the first day upon which all of the following have occurred: (1) the issuance by Operator to its construction contractor for the Facility of a written unconditional Notice-to-Proceed; (2) the mobilization of major construction equipment and construction facilities on the Facility site; and (3) the commencement of major structural excavation and structural concrete work relating to a major component of the Facility such as the power island consistent with having commenced a continuous process of construction relating to the Facility. Dominion North Carolina Power shall have no obligation to accept a declaration of Commercial Operations prior to October 1, 2015. The anticipated Commercial Operations Date is November 2, 2015.

Article 8: Default and Early Termination

Operator and Dominion North Carolina Power agree that any of the following will be a material breach by the Operator of this Agreement and shall result in Dominion North Carolina Power having the right to immediate cancellation, without a cure period, of this Agreement: (i) failure to commence construction of the Facility, as defined in Article 7 above, by April 1, 2015 and provide Dominion North Carolina Power with written notice thereof, (ii) failure to achieve Commercial Operations Date within thirty months of February 21, 2014; provided, however, an Operator may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner, (iii) failure to provide two (2) consecutive status reports pursuant to Article 7 above, (iv) delivery or supply of electrical output to any entity other than Dominion North Carolina Power or its agent, assignee or successor, (v) failure to meet those requirements necessary to maintain Qualifying Facility status, (vi) failure at any time following COD to have in effect a valid Interconnection Agreement with Dominion North Carolina Power (or its successor as operator of the Dominion North Carolina transmission system), (vii) failure to generate and deliver power from the Facility to Dominion North Carolina Power for more than 180 consecutive days, at any time after the Commercial Operations Date, or (viii) failure to maintain QF certification. In the

Page 5 of 19

event Operator fails to perform in any way, materially or non-materially, any other obligations not specifically listed above, Operator shall be given notice and thirty (30) days to cure such non-performance. Notwithstanding any cure period, Dominion North Carolina Power shall not be obligated to purchase any energy or Contract Capacity under this Agreement while any such breach remains uncured. If Operator fails to cure its non-performance within thirty (30) days of Dominion North Carolina Power's notice, Dominion North Carolina Power shall have the right to cancel this Agreement. Operator agrees that if this Agreement is canceled by Dominion North Carolina Power for Operator's non-performance prior to the end of the initial term of this Agreement, then, Dominion North Carolina Power shall have all rights and remedies available at law or in equity.

Article 9: Representations and Warranties

Operator represents and warrants that it has the right to operate the Facility in accordance with the terms of this Agreement. Operator further represents and warrants that all permits, approvals, and/or licenses necessary for the operation of the Facility will be obtained prior to the Commercial Operations Date and shall be maintained throughout the Term of this Agreement. Operator shall, provide such documentation and evidence of such right, permits, approvals and/or licenses as Dominion North Carolina Power may reasonably request, including without limitation air permits, leases and/or purchase agreements.

Article 10: Notices and Payments

All correspondence and payments concerning this Agreement shall be to the addresses below. Either Party may change the address by providing written notice to the other Party.

OPERATOR:DOMINION NORTH CAROLINA POWER:Downs Farm Solar, LLCVirginia Electric and Power Companyc/o FLS Energy, Inc.Power Contracts (3SE)130 Roberts Street5000 Dominion BoulevardAsheville, NC 28801Glen Allen, Virginia 23060-6711

Article 11: Integration of Entirety of Agreement

This Agreement is intended by the Parties as the final expression of their Agreement and is intended also as a complete and exclusive statement of the terms of their Agreement with respect to the purchase and sale of electrical output generated by the Facility. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are hereby abrogated and withdrawn.

OFFICIAL COPY Feb 27 2015

Page 6 of 19

IN WITNESS WHEREOF, the Parties hereto have caused their names to appear below, signed by authorized representatives as of the date first shown above.

Downs Farm Solar, LLC

By: FLS 2014 B Manage, LLC

By: FLS Energy, Inc., its Member and Manager

By:

Title: CEO

Date: December 12, 2014

VIRGINIA ELECTRIC AND POWER COMPANY By: Mal Stand Title: Dir - Pwr Gen Reg Dps Date: 12/23/2214



EXHIBIT A

GENERATOR INTERCONNECTION GUIDANCE AND AGREEMENT

Dominion North Carolina Power's procedures for generator interconnection are available through the Internet at the Company's website with draft interconnection agreements for non-FERC jurisdictional generators (as approved by the NCUC included as Attachments 1, 2 and 3 thereto). For FERC jurisdictional generators interconnection shall be in accordance with FERC and PJM requirements.

The specific Internet address for these procedures is <u>https://www.dom.com/dominion-north-</u> <u>carolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf</u>. The Internet site contains links to the Generator Interconnection Procedures along with the Generator Interconnection Request Form. Once an Interconnection Agreement is executed it will be included herewith as part of this Exhibit A. OFFICIAL COPY

OFFICIAL COPY Feb 27 2015

NORTH CAROLINA

INTERCONNECTION AGREEMENT

Downs Farm Solar, LLC

NC13048

5 MW

NC Interconnection Agreement

Page No.

TABLE OF CONTENTS

Article 1.	Scope and Limitations of Agreement	. 1
1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9	Applicability Purpose No Agreement to Purchase or Deliver Power or RECs Limitations. Responsibilities of the Parties Parallel Operation Obligations Metering. Reactive Power Capitalized Terms.	.1 .2 .2 .3 .3 .3
Article 2.	Inspection, Testing, Authorization, and Right of Access	. 4
2.1 2.2 2.3	Equipment Testing and Inspection Authorization Required Prior to Parallel Operation Right of Access	.4 .5 .5
Article 3.	Effective Date, Term, Termination, and Disconnection	. 6
3.1 3.2 3.3 3.4	Effective Date Term of Agreement Termination Temporary Disconnection	.6 .6 .6
Article 4.	Cost Responsibility for Interconnection Facilities and Distribution Upgrades	. 8
4.1 4.2	Interconnection Facilities Distribution Upgrades	. 8 . 9
Article 5.	Cost Responsibility for Network Upgrades	. 9
5.1 5.2	Applicability Network Upgrades	.9 .9
Article 6.	Billing, Payment, Milestones, and Financial Security	. 9
6.1 6.2 6.3	Billing and Payment Procedures and Final Accounting Milestones Financial Security Arrangements	.9 10 11
Article 7.	Assignment, Liability, Indemnity, Force Majeure, Consequential Damages, and Default	11
7.1 7.2 7.3 7.4 7.5 7.6	Assignment Limitation of Liability Indemnity Consequential Damages Force Majeure Default	11 12 12 13 13

Ρ	ag	е	Ν	0
•		-	•••	-

Article 8.	Insurance
Article 9.	Confidentiality
Article 10.	Disputes16
Article 11.	Taxes
Article 12.	Miscellaneous
12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12	Governing Law, Regulatory Authority, and Rules16Amendment17No Third-Party Beneficiaries17Waiver17Entire Agreement17Multiple Counterparts18No Partnership18Severability18Security Arrangements18Environmental Releases18Subcontractors19Reservation of Rights19
Article 13.	Notices
13.1 13.2 13.3 13.4 13.5	General19Billing and Payment20Alternative Forms of Notice21Designated Operating Representative22Changes to the Notice Information22
Appendix 1 -	- Glossary of Terms
Appendix 2 -	 Description and Costs of the Generating Facility, Interconnection Facilities, and Metering Equipment
Annendix 3 -	- One-line Diagram Depicting the Generating Facility Interconnection

Appendix 3 – One-line Diagram Depicting the Generating Facility, Interconnection Facilities, Metering Equipment, and Upgrades

Appendix 4 - Milestones

- Appendix 5 Additional Operating Requirements for the Utility's System and Affected Systems Needed to Support the Interconnection Customer's Needs
- Appendix 6 Utility's Description of its Upgrades and Best Estimate of Upgrade Costs

This Interconnection Agreement ("Agreement") is made and entered into this 3rd day of November, 2014, by Virginia Electric and Power Company, doing business as Dominion North Carolina Power ("Utility"), and Downs Farm Solar, LLC ("Interconnection Customer") each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties."

Utility Information

Utility: Virginia Electric and Power Company

Attention: Mike Nester

Address: 200 Vepco Street

City, State, Zip: Roanoke Rapids 27870

Phone: 252-308-1077 Fax: (252)-308-1078

Interconnection Customer Information

Interconnection Customer: Downs Farm Solar, LLC

Attention: Richard Harkrader

Address: 400 W. Main St. Suite 503

City, State, Zip: Durham, NC 27701

Phone: (919)-682-6822

Interconnection Request ID No: NC13048

In consideration of the mutual covenants set forth herein, the Parties agree as follows:

Article 1. Scope and Limitations of Agreement

1.1 Applicability

This Agreement shall be used for all Interconnection Requests submitted under the North Carolina Interconnection Procedures except for those submitted under the 10 kW Inverter Process in Section 2 of the Interconnection Procedures.

1.2 <u>Purpose</u>

This Agreement governs the terms and conditions under which the Interconnection Customer's Generating Facility will interconnect with, and operate in parallel with, the Utility's System.

1.3 <u>No Agreement to Purchase or Deliver Power or RECs</u>

This Agreement does not constitute an agreement to purchase or deliver the Interconnection Customer's power or Renewable Energy Certificates (RECs). The purchase or delivery of power, RECs that might result from the operation of the Generating Facility, and other services that the Interconnection Customer may require will be covered under separate agreements, if any. The Interconnection Customer will be responsible for separately making all necessary arrangements (including scheduling) for delivery of electricity with the applicable Utility.

1.4 <u>Limitations</u>

Nothing in this Agreement is intended to affect any other agreement between the Utility and the Interconnection Customer.

- 1.5 <u>Responsibilities of the Parties</u>
 - 1.5.1 The Parties shall perform all obligations of this Agreement in accordance with all Applicable Laws and Regulations, Operating Requirements, and Good Utility Practice.
 - 1.5.2 The Interconnection Customer shall construct, interconnect, operate and maintain its Generating Facility and construct, operate, and maintain its Interconnection Facilities in accordance with the applicable manufacturer's recommended maintenance schedule, and in accordance with this Agreement, and with Good Utility Practice.
 - 1.5.3 The Utility shall construct, operate, and maintain its System and Interconnection Facilities in accordance with this Agreement, and with Good Utility Practice.
 - 1.5.4 The Interconnection Customer agrees to construct its facilities or systems in accordance with applicable specifications that meet or exceed those provided by the National Electrical Safety Code, the American National Standards Institute, IEEE, Underwriters' Laboratories, and Operating Requirements in effect at the time of construction and other applicable national and state codes and standards. The Interconnection Customer agrees to design, install, maintain, and operate its Generating Facility so as to reasonably minimize the

likelihood of a disturbance adversely affecting or impairing the System or equipment of the Utility and any Affected Systems.

- 1.5.5 Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the Appendices to this Agreement. Each Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the point of change of ownership. The Utility and the Interconnection Customer, as appropriate, shall provide Interconnection Facilities that adequately protect the Utility's System, personnel, and other persons from damage and injury. The allocation of responsibility for the design, installation, operation, maintenance and ownership of Interconnection Facilities shall be delineated in the Appendices to this Agreement.
- 1.5.6 The Utility shall coordinate with all Affected Systems to support the interconnection.

1.6 <u>Parallel Operation Obligations</u>

Once the Generating Facility has been authorized to commence parallel operation, the Interconnection Customer shall abide by all rules and procedures pertaining to the parallel operation of the Generating Facility in the applicable control area, including, but not limited to: 1) any rules and procedures concerning the operation of generation set forth in Commission-approved tariffs or by the applicable system operator(s) for the Utility's System and; 2) the Operating Requirements set forth in Appendix 5 of this Agreement.

1.7 <u>Metering</u>

The Interconnection Customer shall be responsible for the Utility's reasonable and necessary cost for the purchase, installation, operation, maintenance, testing, repair, and replacement of metering and data acquisition equipment specified in Appendices 2 and 3 of this Agreement. The Interconnection Customer's metering (and data acquisition, as required) equipment shall conform to applicable industry rules and Operating Requirements.

1.8 <u>Reactive Power</u>

1.8.1 The Interconnection Customer shall design its Generating Facility to maintain a composite power delivery at continuous rated power output at the Point of Interconnection at a power factor within the range of 0.95 leading to 0.95 lagging, unless the Utility has established different requirements that apply to all similarly situated generators in the

control area on a comparable basis. The requirements of this paragraph shall not apply to wind generators.

- 1.8.2 The Utility is required to pay the Interconnection Customer for reactive power that the Interconnection Customer provides or absorbs from the Generating Facility when the Utility requests the Interconnection Customer to operate its Generating Facility outside the range specified in Article 1.8.1. In addition, if the Utility pays its own or affiliated generators for reactive power service within the specified range, it must also pay the Interconnection Customer.
- 1.8.3 Payments shall be in accordance with the Utility's applicable rate schedule then in effect unless the provision of such service(s) is subject to a regional transmission organization or independent system operator FERC-approved rate schedule. To the extent that no rate schedule is in effect at the time the Interconnection Customer is required to provide or absorb reactive power under this Agreement, the Parties agree to expeditiously file such rate schedule and agree to support any request for waiver of any prior notice requirement in order to compensate the Interconnection Customer from the time service commenced.

1.9 Capitalized Terms

Capitalized terms used herein shall have the meanings specified in the Glossary of Terms in Attachment 1 of the North Carolina Interconnection Procedures or the body of this Agreement.

Article 2. Inspection, Testing, Authorization, and Right of Access

- 2.1 Equipment Testing and Inspection
 - 2.1.1 The Interconnection Customer shall test and inspect its Generating Facility and Interconnection Facilities prior to interconnection. The Interconnection Customer shall notify the Utility of such activities no fewer than five Business Days (or as may be agreed to by the Parties) prior to such testing and inspection. Testing and inspection shall occur on a Business Day, unless otherwise agreed to by the Parties. The Utility may, at its own expense, send qualified personnel to the Generating Facility site to inspect the interconnection and observe the testing. The Interconnection Customer shall provide the Utility a written test report when such testing and inspection is completed.
 - 2.1.2 The Utility shall provide the Interconnection Customer written acknowledgment that it has received the Interconnection Customer's written test report. Such written acknowledgment shall not be deemed to be or construed as any representation, assurance, guarantee, or

warranty by the Utility of the safety, durability, suitability, or reliability of the Generating Facility or any associated control, protective, and safety devices owned or controlled by the Interconnection Customer or the quality of power produced by the Generating Facility.

2.2 <u>Authorization Required Prior to Parallel Operation</u>

- 2.2.1 The Utility shall use Reasonable Efforts to list applicable parallel operation requirements in Appendix 5 of this Agreement. Additionally, the Utility shall notify the Interconnection Customer of any changes to these requirements as soon as they are known. The Utility shall make Reasonable Efforts to cooperate with the Interconnection Customer in meeting requirements necessary for the Interconnection Customer to commence parallel operations by the in-service date.
- 2.2.2 The Interconnection Customer shall not operate its Generating Facility in parallel with the Utility's System without prior written authorization of the Utility. The Utility will provide such authorization once the Utility receives notification that the Interconnection Customer has complied with all applicable parallel operation requirements. Such authorization shall not be unreasonably withheld, conditioned, or delayed.

2.3 <u>Right of Access</u>

- 2.3.1 Upon reasonable notice, the Utility may send a qualified person to the premises of the Interconnection Customer at or immediately before the time the Generating Facility first produces energy to inspect the interconnection, and observe the commissioning of the Generating Facility (including any required testing), startup, and operation for a period of up to three Business Days after initial start-up of the unit. In addition, the Interconnection Customer shall notify the Utility at least five Business Days prior to conducting any on-site verification testing of the Generating Facility.
- 2.3.2 Following the initial inspection process described above, at reasonable hours, and upon reasonable notice, or at any time without notice in the event of an emergency or hazardous condition, the Utility shall have access to the Interconnection Customer's premises for any reasonable purpose in connection with the performance of the obligations imposed on it by this Agreement or if necessary to meet its legal obligation to provide service to its customers.
- 2.3.3 Each Party shall be responsible for its own costs associated with following this Article.

Article 3. Effective Date, Term, Termination, and Disconnection

3.1 <u>Effective Date</u>

This Agreement shall become effective upon execution by the Parties.

3.2 <u>Term of Agreement</u>

This Agreement shall become effective on the Effective Date and shall remain in effect for a period of ten years from the Effective Date or such other longer period as the Interconnection Customer may request and shall be automatically renewed for each successive one-year period thereafter, unless terminated earlier in accordance with Article 3.3 of this Agreement.

3.3 <u>Termination</u>

No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

- 3.3.1 The Interconnection Customer may terminate this Agreement at any time by giving the Utility 20 Business Days written notice and physically and permanently disconnecting the Generating Facility from the Utility's System.
- 3.3.2 Either Party may terminate this Agreement after Default pursuant to Article 7.6.
- 3.3.3 Upon termination of this Agreement, the Generating Facility will be disconnected from the Utility's System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this Agreement or such non-terminating Party otherwise is responsible for these costs under this Agreement.
- 3.3.4 The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of the termination.
- 3.3.5 The provisions of this article shall survive termination or expiration of this Agreement.

3.4 <u>Temporary Disconnection</u>

Temporary disconnection shall continue only for so long as reasonably necessary under Good Utility Practice.

3.4.1 <u>Emergency Conditions</u>

"Emergency Condition" shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of the Utility, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to the Utility's System, the Utility's Interconnection Facilities or the systems of others to which the Utility's System is directly connected; or (3) that, in the case of the Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or the Interconnection Customer's Interconnection Facilities. Under Emergency Conditions, the Utility may immediately suspend interconnection service and temporarily disconnect the Generating Facility. The Utility shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the Generating Facility. The Interconnection Customer shall notify the Utility promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Utility's System or any Affected Systems. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of both Parties' facilities and operations, its anticipated duration, and the necessary corrective action.

3.4.2 Routine Maintenance, Construction, and Repair

The Utility may interrupt interconnection service or curtail the output of the Generating Facility and temporarily disconnect the Generating Facility from the Utility's System when necessary for routine maintenance, construction, and repairs on the Utility's System. The Utility shall provide the Interconnection Customer with five Business Days notice prior to such interruption. The Utility shall use Reasonable Efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.

3.4.3 Forced Outages

During any forced outage, the Utility may suspend interconnection service to effect immediate repairs on the Utility's System. The Utility shall use Reasonable Efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, the Utility shall, upon request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.
3.4.4 Adverse Operating Effects

The Utility shall notify the Interconnection Customer as soon as practicable if, based on Good Utility Practice, operation of the Generating Facility may cause disruption or deterioration of service to other customers served from the same electric system, or if operating the Generating Facility could cause damage to the Utility's System or Affected Systems. Supporting documentation used to reach the decision to disconnect shall be provided to the Interconnection Customer upon request. If, after notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time, the Utility may disconnect the Generating Facility. The Utility shall provide the Interconnection Customer with five Business Day notice of such disconnection, unless the provisions of Article 3.4.1 apply.

3.4.5 Modification of the Generating Facility

The Interconnection Customer must receive written authorization from the Utility before making any change to the Generating Facility that may have a material impact on the safety or reliability of the Utility's System. Such authorization shall not be unreasonably withheld. Modifications shall be done in accordance with Good Utility Practice. If the Interconnection Customer makes such modification without the Utility's prior written authorization, the latter shall have the right to temporarily disconnect the Generating Facility.

3.4.6 <u>Reconnection</u>

The Parties shall cooperate with each other to restore the Generating Facility, Interconnection Facilities, and the Utility's System to their normal operating state as soon as reasonably practicable following a temporary or emergency disconnection.

Article 4. Cost Responsibility for Interconnection Facilities and Distribution Upgrades

4.1 Interconnection Facilities

4.1.1 The Interconnection Customer shall pay for the cost of the Interconnection Facilities itemized in Appendix 2 of this Agreement. The Utility shall provide a best estimate cost, including overheads, for the purchase and construction of its Interconnection Facilities and provide a detailed itemization of such costs. Costs associated with Interconnection Facilities may be shared with other entities that may benefit from such facilities by agreement of the Interconnection Customer, such other entities, and the Utility.

- Feb 27 2015
- 4.1.2 The Interconnection Customer shall be responsible for its share of all reasonable expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its own Interconnection Facilities, and (2) operating, maintaining, repairing, and replacing the Utility's Interconnection Facilities.

4.2 Distribution Upgrades

The Utility shall design, procure, construct, install, and own the Distribution Upgrades described in Appendix 6 of this Agreement. If the Utility and the Interconnection Customer agree, the Interconnection Customer may construct Distribution Upgrades that are located on land owned by the Interconnection Customer. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.

Article 5. Cost Responsibility for Network Upgrades

5.1 <u>Applicability</u>

No portion of this Article 5 shall apply unless the interconnection of the Generating Facility requires Network Upgrades.

5.2 <u>Network Upgrades</u>

The Utility shall design, procure, construct, install, and own the Network Upgrades described in Appendix 6 of this Agreement. If the Utility and the Interconnection Customer agree, the Interconnection Customer may construct Network Upgrades that are located on land owned by the Interconnection Customer. Unless the Utility elects to pay for Network Upgrades, the actual cost of the Network Upgrades, including overheads, shall be borne by the Interconnection Customer.

Article 6. Billing, Payment, Milestones, and Financial Security

6.1 Billing and Payment Procedures and Final Accounting

- 6.1.1 The Utility shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs of Interconnection Facilities and Upgrades contemplated by this Agreement on a monthly basis, or as otherwise agreed by the Parties. The Interconnection Customer shall pay each bill within 30 calendar days of receipt, or as otherwise agreed to by the Parties.
- 6.1.2 Within three months of completing the construction and installation of the Utility's Interconnection Facilities and/or Upgrades described in the Appendices to this Agreement, the Utility shall provide the

Interconnection Customer with a final accounting report of any difference between (1) the Interconnection Customer's cost responsibility for the actual cost of such facilities or Upgrades, and (2) the Interconnection Customer's previous aggregate payments to the Utility for such facilities or Upgrades. If the Interconnection Customer's cost responsibility exceeds its previous aggregate payments, the Utility shall invoice the Interconnection Customer for the amount due and the Interconnection Customer shall make payment to the Utility within 30 calendar days. If the Interconnection Customer's previous aggregate payments exceed its cost responsibility under this Agreement, the Utility shall refund to the Interconnection Customer an amount equal to the difference within 30 calendar days of the final accounting report.

- 6.1.3 If the Interconnection Customer elects the payment procedures in Articles 6.1.1 and 6.1.2, the Utility may also bill the Interconnection Customer periodically for the costs associated with operating, maintaining, repairing and replacing the Utility's Interconnection Facilities, as set forth in Appendix 2 of this Agreement.
- 6.1.4 The Interconnection Customer may elect to be billed the costs in Articles 6.1.1 and 6.1.2 and for on-going operations, maintenance, repair and replacement of the Utility's Interconnection Facilities under a Utility rate schedule, tariff, rider or service regulation providing for extra facilities charges, as set forth in Appendix 2 of this Agreement, such monthly charges to continue throughout the entire life of the interconnection.

6.2 <u>Milestones</u>

The Parties shall agree on milestones for which each Party is responsible and list them in Appendix 4 of this Agreement. A Party's obligations under this provision may be extended by agreement. If a Party anticipates that it will be unable to meet a milestone for any reason other than a Force Majeure Event, it shall immediately notify the other Party of the reason(s) for not meeting the milestone and (1) propose the earliest reasonable alternate date by which it can attain this and future milestones, and (2) request appropriate amendments to Appendix 4. The Party affected by the failure to meet a milestone shall not unreasonably withhold agreement to such an amendment unless (1) it will suffer significant uncompensated economic or operational harm from the delay, (2) attainment of the same milestone has previously been delayed, or (3) it has reason to believe that the delay in meeting the milestone is intentional or unwarranted notwithstanding the circumstances explained by the Party proposing the amendment.

6.3 <u>Financial Security Arrangements</u>

At least 20 Business Days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of the Utility's Interconnection Facilities and Upgrades, the Interconnection Customer shall provide the Utility, at the Interconnection Customer's option, a guarantee, a surety bond, letter of credit or other form of security that is reasonably acceptable to the Utility and is consistent with the Uniform Commercial Code of North Carolina. Such security for payment shall be in an amount sufficient to cover the costs for constructing, designing, procuring, and installing the applicable portion of the Utility's Interconnection Facilities and Upgrades and shall be reduced on a dollar-for-dollar basis for payments made to the Utility under this Agreement during its term. In addition:

- 6.3.1 The guarantee must be made by an entity that meets the creditworthiness requirements of the Utility, and contain terms and conditions that guarantee payment of any amount that may be due from the Interconnection Customer, up to an agreed-to maximum amount.
- 6.3.2 The letter of credit or surety bond must be issued by a financial institution or insurer reasonably acceptable to the Utility and must specify a reasonable expiration date.
- 6.3.3 The Utility may waive the security requirements if its credit policies show that the financial risks involved are de minimus, or if the Utility's policies allow the acceptance of an alternative showing of credit-worthiness from the Interconnection Customer.

Article 7. Assignment, Liability, Indemnity, Force Majeure, Consequential Damages, and Default

- 7.1 <u>Assignment</u>
 - 7.1.1 This Agreement shall not survive the transfer of ownership of the Generating Facility to a new owner. The new owner must complete a new Interconnection Request and submit it to the Utility within 20 Business Days of the transfer of ownership or the Utility's Interconnection Facilities shall be removed or disabled and the Generating Facility disconnected from the Utility's System. The Utility shall not study or inspect the Generating Facility unless the new owner's Interconnection Request indicates that a Material Modification has occurred or is proposed.
 - 7.1.2 The Interconnection Customer shall have the right to assign this Agreement, without the consent of the Utility, for collateral security purposes to aid in providing financing for the Generating Facility,

provided that the Interconnection Customer will promptly notify the Utility of any such assignment. Assignment shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof.

- 7.1.3 Any attempted assignment that violates this article is void and ineffective.
- 7.2 Limitation of Liability

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, incidental, consequential, or punitive damages of any kind, except as authorized by this Agreement.

7.3 Indemnity

- 7.3.1 This provision protects each Party from liability incurred to third parties as a result of carrying out the provisions of this Agreement. Liability under this provision is exempt from the general limitations on liability found in Article 7.2.
- 7.3.2 The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inaction of its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.
- 7.3.3 If an indemnified Party is entitled to indemnification under this Article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such claim, such indemnified Party may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.
- 7.3.4 If an indemnifying Party is obligated to indemnify and hold any indemnified Party harmless under this Article, the amount owing to the indemnified Party shall be the amount of such indemnified Party's actual loss, net of any insurance or other recovery.

7.3.5 Promptly after receipt by an indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may apply, the indemnified Party shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

7.4 <u>Consequential Damages</u>

Other than as expressly provided for in this Agreement, neither Party shall be liable under any provision of this Agreement for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

7.5 Force Majeure

- 7.5.1 As used in this article, a Force Majeure Event shall mean any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any other cause beyond a Party's control. A Force Majeure Event does not include an act of negligence or intentional wrongdoing.
- 7.5.2 If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the Force Majeure Event (Affected Party) shall promptly notify the other Party, either in writing or via the telephone, of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the Affected Party is taking to mitigate the effects of the event on its performance. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends. The Affected Party will be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of Reasonable Efforts. The Affected Party will use Reasonable Efforts to resume its performance as soon as possible.

7.6 Default

- 7.6.1 No Default shall exist where such failure to discharge an obligation (other than the payment of money) is the result of a Force Majeure Event as defined in this Agreement or the result of an act or omission of the other Party. Upon a Default, the non-defaulting Party shall give written notice of such Default to the defaulting Party. Except as provided in Article 7.6.2, the defaulting Party shall have 60 calendar days from receipt of the Default notice within which to cure such Default; provided however, if such Default is not capable of cure within 60 calendar days, the defaulting Party shall commence such cure within 20 calendar days after notice and continuously and diligently complete such cure within six months from receipt of the Default notice; and, if cured within such time, the Default specified in such notice shall cease to exist.
- 7.6.2 If a Default is not cured as provided in this Article, or if a Default is not capable of being cured within the period provided for herein, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this article will survive termination of this Agreement.

Article 8. Insurance

- 8.1 The Interconnection Customer shall obtain and retain, for as long as the Generating Facility is interconnected with the Utility's System, liability insurance which protects the Interconnection Customer from claims for bodily injury and/or property damage. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generating equipment being interconnected, the interconnection itself, and the characteristics of the system to which the interconnection Customer shall provide certificates evidencing this coverage as required by the Utility. Such insurance shall be obtained from an insurance provider authorized to do business in North Carolina. The Utility reserves the right to refuse to establish or continue the interconnection of the Generating Facility with the Utility's System, if such insurance is not in effect.
 - 8.1.1 For an Interconnection Customer that is a residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be a standard homeowner's

insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.

- 8.1.2 For an Interconnection Customer that is a non-residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$300,000 per occurrence.
- 8.1.3 An Interconnection Customer of sufficient credit-worthiness may propose to provide this insurance via a self-insurance program if it has a self-insurance program established in accordance with commercially acceptable risk management practices, and such a proposal shall not be unreasonably rejected.
- 8.2 The Utility agrees to maintain general liability insurance or self-insurance consistent with the Utility's commercial practice. Such insurance or self-insurance shall not exclude coverage for the Utility's liabilities undertaken pursuant to this Agreement.
- 8.3 The Parties further agree to notify each other whenever an accident or incident occurs resulting in any injuries or damages that are included within the scope of coverage of such insurance, whether or not such coverage is sought.

Article 9. Confidentiality

- 9.1 Confidential Information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential." For purposes of this Agreement all design, operating specifications, and metering data provided by the Interconnection Customer shall be deemed Confidential Information regardless of whether it is clearly marked or otherwise designated as such.
- 9.2 Confidential Information does not include information previously in the public domain, required to be publicly submitted or divulged by Governmental Authorities (after notice to the other Party and after exhausting any opportunity to oppose such publication or release), or necessary to be divulged in an action to enforce this Agreement. Each Party receiving Confidential Information shall hold such information in confidence and shall not disclose it to any third party nor to the public without the prior written authorization from the Party providing that information, except to fulfill obligations under this Agreement, or to fulfill legal or regulatory requirements.
 - 9.1.1 Each Party shall employ at least the same standard of care to protect Confidential Information obtained from the other Party as it employs to protect its own Confidential Information.

- Feb 27 2015
- 9.1.2 Each Party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of Confidential Information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.
- 9.3 If information is requested by the Commission from one of the Parties that is otherwise required to be maintained in confidence pursuant to this Agreement, the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party may request that the information be treated as confidential and non-public in accordance with North Carolina law and that the information be withheld from public disclosure.

Article 10. Disputes

- 10.1 The Parties agree to attempt to resolve all disputes arising out of the interconnection process according to the provisions of this Article.
- 10.2 In the event of a dispute, either Party shall provide the other Party with a written notice of dispute. Such notice shall describe in detail the nature of the dispute.
- 10.3 If the dispute has not been resolved within two Business Days after receipt of the notice, either Party may contact the Public Staff for assistance in informally resolving the dispute. If the Parties are unable to informally resolve the dispute, either Party may then file a formal complaint with the Commission.
- 10.4 Each Party agrees to conduct all negotiations in good faith.

Article 11. Taxes

- 11.1 The Parties agree to follow all applicable tax laws and regulations, consistent with North Carolina and federal policy and revenue requirements.
- 11.2 Each Party shall cooperate with the other to maintain the other Party's tax status. Nothing in this Agreement is intended to adversely affect the Utility's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

Article 12. Miscellaneous

12.1 Governing Law, Regulatory Authority, and Rules

The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of North Carolina, without regard to its conflicts of law principles. This Agreement is subject to all Applicable

Laws and Regulations. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, or regulations of a Governmental Authority.

12.2 <u>Amendment</u>

The Parties may amend this Agreement by a written instrument duly executed by both Parties, or under Article 12.12 of this Agreement.

12.3 <u>No Third-Party Beneficiaries</u>

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

12.4 <u>Waiver</u>

- 12.4.1 The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.
- 12.4.2 Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal rights to obtain an interconnection from the Utility. Any waiver of this Agreement shall, if requested, be provided in writing.

12.5 Entire Agreement

This Agreement, including all Appendices, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this Agreement.

12.6 <u>Multiple Counterparts</u>

This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

12.7 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

12.8 <u>Severability</u>

If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other Governmental Authority, (1) such portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling, and (3) the remainder of this Agreement shall remain in full force and effect.

12.9 <u>Security Arrangements</u>

Infrastructure security of electric system equipment and operations and control hardware and software is essential to ensure day-to-day reliability and operational security. All Utilities are expected to meet basic standards for electric system infrastructure and operational security, including physical, operational, and cyber-security practices.

12.10 Environmental Releases

Each Party shall notify the other Party, first orally and then in writing, of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than 24 hours after such Party becomes aware of the occurrence, and (2) promptly furnish to the other Party copies of any publicly available reports filed with any Governmental Authorities addressing such events.

12.11 Subcontractors

Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

- 12.11.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall the Utility be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under this Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.
- 12.11.2 The obligations under this article will not be limited in any way by any limitation of subcontractor's insurance.

12.12 Reservation of Rights

The Utility shall have the right to make a unilateral filing with the Commission to modify this Agreement with respect to any rates, terms and conditions, charges, or classifications of service, and the Interconnection Customer shall have the right to make a unilateral filing with the Commission to modify this Agreement; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before the Commission in which such modifications may be considered. Nothing in this Agreement shall limit the rights of the Parties except to the extent that the Parties otherwise agree as provided herein.

Article 13. Notices

13.1 <u>General</u>

Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement (Notice) shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

If to the Interconnection Customer:

Interconnection Customer: Downs Farm Solar, LLC

Attention: Richard Harkrader

Address: 400 W. Main St. Suite 503

City, State, Zip: Durham, NC 27701

Phone: (919)-682-6822

If to the Utility:

Utility: Virginia Electric and Power Company

Attention: Mike Nester

Address: 200 Vepco Street

City, State, Zip: Roanoke Rapids, NC 27870

Phone: (252)-308-1077 Fax: (252)-308-1078

13.2 Billing and Payment

Billings and payments shall be sent to the addresses set out below:

If to the Interconnection Customer:

Interconnection Customer: Downs Farm Solar, LLC

Attention: Richard Harkrader

Address: 400 W. Main St. Suite 503

City, State, Zip: Durham, NC 27701

If to the Utility:

Utility: Virginia Electric and Power Company

Attention: <u>Remittance Processing Services</u>

Address: P.O. Box 26543

City, State, Zip: <u>Richmond, VA 23290</u>

13.3 Alternative Forms of Notice

Any notice or request required or permitted to be given by either Party to the other and not required by this Agreement to be given in writing may be so given by telephone, facsimile or e-mail to the telephone numbers and e-mail addresses set out below:

If to the Interconnection Customer:

Interconnection Customer: Downs Farm Solar, LLC

Attention: <u>Richard Harkrader</u>

Address: 400 W. Main St. Suite 503

City, State, Zip: Durham, NC 27701

Phone: (919)-682-6822

E-Mail Address: <u>Richard.Harkrader@carolinasolarenergy.com</u>

If to the Utility:

Utility: Virginia Electric and Power Company

Attention: Mike Nester

Address: 200 Vepco Street

City, State, Zip: Roanoke Rapids, NC 27870

Phone: (252)-308-1077 Fax: (252)-308-1078

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives.

For the Utility
Name: Thit D. Bran Kenneth D. Barker
Title: VP- Technical Sohns.
Date: _////////////////////////////////////
For the Interconnection Customer
Name: Mustbach RICHARD HARKRADER
Title: MANAGOR DOWNS FARM SOLAR LLC
Date: $1/4 \int 2014$

Glossary of Terms

See Glossary of Terms, Attachment 1 to the North Carolina Interconnection Procedures.

Feb 27 2015

Description and Costs of the Generating Facility, Interconnection Facilities, and Metering Equipment

Generating Facility

Generating facility will be 6.50 MWdc/5.0 MWac Solar Farm of parallel generation units located on NC Hwy 45 in Cofield, North Carolina 27922. The Distributed Generation (DG) owner desires to export power into the Dominion North Carolina Power (DNCP) utility source and provide site power (during daylight hours) via site solar generation. This is an inverter (UL1741/IEEE 1547 certified) based interconnection which consists of a total of six (6) SMA SC750CP-US inverter unit rated 825 kVA and operating at 342 VAC. The inverter system is installed in blocks of one (1) 825 kVA inverter connected to a three (3) phase 825 kVA, for a total of six (6) PV Inverter-Transformer systems. The DG owner has specified that all step-up transformers will be rated 34.5/19.9 kV – 342 V with a wye resistance grounded (primary) / delta (secondary) winding configuration.

Customer Interconnection Facilities

Interconnect Customer will be responsible for all associated solar panels, inverters, transformers and all items listed below

- Installation of all conductors between the generating facility and POI.
- Installation of pad mounted transformers
- Installation of a three phase interruption device
- Installation of all generator breakers and associated equipment
- Communication lines for all metering

Interconnection Facilities and Metering

The Interconnection Facilities required to be provided by the Utility will include:

New Attachment Facilities for 5 MW of Generation

- Install 4 new poles and guying needed
- Installation of Recloser with a 651R-2 Recloser Control Box
- Approximately 150 feet of 3 phase overhead 477 al conductor
- One Disconnect Switch
- All metering needed for interconnection of generation and auxiliary load

The estimated cost of the installation of the new attachment facilities to provide the interconnection is \$133,538.81

The customer will be also be responsible for an ongoing monthly operation and maintenance cost of 0.45 percent of the estimated cost of the new facilities of \$133,538.81. The calculation will be; $$133,538.81 \times 0.0045 = 600.93

Utility will bill the Interconnect Customer the actual amount for all construction work after the work has been completed and subtract any upfront payments from the total. OFFICIAL COPY





and payment received for all associated costs.

In-Service Date: Twelve (12) months from execution of Interconnection Agreement

Milestones

Critical milestones and responsibility as agreed to by the Parties:

Milestone	e/Date	Responsible Party	
(1)			
(2)			
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			
(9)			_
(10)			
Agreed to by:			
For the Utility		Date	
For the Interconnection Custome	er	Date	

Additional Operating Requirements for the Utility's System and Affected Systems Needed to Support the Interconnection Customer's Needs

Downs Farm Solar, LLC Interconnection Protection Requirements for Exporting Energy (NC13048)

Dominion has reviewed the Downs Farm Solar, LLC NC13048 request for interconnection of 6.50/5.0 MVA dc/ac of Solar-Photovoltaic (PV) Generation units located on NC Hwy 45 in Cofield, North Carolina 27922. The Distributed Generation (DG) owner desires to export power into the Dominion North Carolina Power (DNCP) Electric Power System (EPS) and provide site power (during daylight hours) via site solar generation. This is an inverter (UL1741/IEEE 1547 certified) based interconnection which consists of a total of six (6) SMA SC750CP-US inverter unit rated 825 kVA and operating at 342 VAC. The inverter system is installed in blocks of one (1) 825 kVA inverter connected to a three (3) phase 825 kVA, delta-wye resistance-grounded, (inverter side - utility side) step-up transformer, for a total of six (6) PV Inverter-Transformer systems. All transformers will be 34.5/19.9 kV- 342 V with a wye-resistance-grounded (primary) - delta (secondary) winding configuration. The DG owner should plan for the installation of a Grounding Resistor (size to be determined by the DG owner's Engineering/Technical representatives and then reviewed and approved by DNCP from an EPS acceptability standpoint) on the primary neutral of all the generator step-up transformers. Note the DG owner's Engineering/Technical representatives should verify the selected inverters, when connected to the delta-wve transformer configuration, are designed to properly disconnect for various islanding conditions such as loss of single phase and loss of three phases as might be tested during the site commissioning tests. The resulting protection requirements are based on the following information:

- No more than 6.50/5.0 MVA dc/ac of total generation will be in parallel with the DNCP system at any one time.
- Other DG interconnections either exist or are in queue ahead of this study request within the several automatic protective device zones associated with this request (6.25 and 0.625 MVA).
- The DG owner's generation facility will be paralleled with the DNCP EPS by the following connections:
 - The DG owner's generation facility will be connected to the Tunis Distribution Circuit 326 via a newly installed site Automatic Line Recloser (ALR) 326RXXX and up-line ALR 326RYYY. Circuit 326 is sourced by Tunis Bus #2, Transformer #1 and 115kV Line 136.
- Tunis Circuit 326 feeder breaker has reclosing times at 10 seconds and 45 seconds after the first trip.

- Transmission Line 136 has both instantaneous and time delayed reclosing applied on its Terminal Breakers.
- The load data for the pertinent sectionalizing devices are as follows:
 - > Tunis Circuit 326 (32642) has a typical "light" loading of 1.91 MVA
 - > Tunis Bus #2 has a typical "light" loading of 8.9 MVA
 - > Tunis Transformer #1 has a typical "light" loading of 8.9 MVA
 - > 115kV Line 136 has a typical "light" loading of 10.81 MVA
- DG owner parallel operation will not be limited to any particular time or utility circuitloading condition (daylight is required for generation to be available); however, <u>DG</u> <u>owner parallel operation will not be permitted during periods when the source</u> <u>circuitry is switched into an abnormal configuration</u>.
- The DG owner will be contracting with DNCP to export power into the DNCP distribution system.

Based on the projected minimum loads given for applicable utility sectionalizing devices, the following minimum "Local Load to DG owner Generation Capacity" ratios will apply for this installation:

Utility Device	Minimum Ratio
CB 32642	0.153
Bus #2	0.678
Transformer #1	0.678
Line 136	0.824

Based on the size and type of this generation, the applicable DNCP Standards and the minimum ratios applicable for this installation, all of the following requirements will need to be met before parallel operation authorization can be granted:

- 1. Installation of a <u>Dominion owned Automatic Line Recloser</u> (ALR) at the point of common coupling (PCC) with all required relaying (described in table 3 below) at the DG owner expense.
- 2. Installation of a Dominion owned ALR at a point on circuit 326 in the area where the voltage conversion takes place in order to minimize impacts to the substation relay load allowance/reach sensitivity balance.
- 3. Installation of wye-grounded (primary) / delta (secondary) generator step-up transformers increases total fault current contribution as well as increases operating time during faults, due to generator in-feed current flow. In order to reduce such fault contribution and maintain DNCP's protective relay's sensitivity, <u>a neutral resistance will be required on each of the DG owner's step-up transformers</u> (i.e. transformer neutral path). Such an addition is meant to limit 3l₀ while keeping the DNCP system effectively grounded in an islanded situation where the EPS

protection device has operated and the PV-inverter system protection has not.

- 4. Installation of an <u>additional Dominion owned Protective Relay and Power Quality package</u> at the PCC (Dominion Metering Instrument Transformer Cabinet) with all required metering/relay functionality at the DG owner expense. The power source (single phase, 120 V ac) to this Power Monitor shall be supplied from a 2 kVA or larger Station Service (19,920 120 V ac) source (low exposure) independent of any other generation, load or exposure. Such Protective Relaying and Power Quality package should aid in the determination of on-going harmonic levels along with other information regarding the interconnection site as well as providing a trip initiation to the ALR when either harmonic standard limits are exceeded or other undesirable conditions are detected.
- 5. Upgrade of existing Circuit relay functionality and Bus #1 relay functionality to add directionality and isolation of DG from the substation transformer for a 136 Line lock-out.

The voltage and frequency "Default Max" clearing times, listed in Table 1, are derived from IEEE-1547a-2014 (Amendment to IEEE Standard 1547-2003). The overall antiislanding "Default Max" clearing time, listed in Table 1, is derived from IEEE Standard 1547-2003 (R2008). The DG owner will be required to apply all the enabled protection settings and not exceed the Default Max clearing times (Table 1) on "all inverters". If the DG owner chooses to adhere to IEEE 1547 default maximum clearing times and not the DNCP standards, the DG owner shall provide detailed, manufacturer-supplied computer simulation models (Aspen OneLiner, Matlab, PSSE, and PSCAD) of the PV plant, to include full control and hardware details, needed to investigate DG impacts. In addition, if the DG owner adheres to the DNCP clearing times, test results from a Nationally Recognized Test Laboratory (N.R.T.L.) need to be provided to DNCP for review.

Function		Cat Daint	Clearing Time (sec)	
		Set Point	Default Max	DNCP
27	Under-voltage	V < 45% nominal voltage	0.16	0.083
		45% ≤ V < 60%	1.00	0.083
		60% ≤ V <88%	2.00	0.083
50	59 Over-voltage	110% < V < 120%	1.00	0.083
59		V ≥ 120% nominal voltage	0.16	0.083
81U	Under-frequency	F < 57.0 Hz	0.16	0.083
		F < 59.5 Hz	2.00	0.083
810	Over-frequency	F > 60.5 Hz	2.00	0.083
		F > 62.0 Hz	0.16	0.083

Currently, this site is not intended to operate for grid support functionality. Therefore, the following inverter functions, in Table 1, are to be disabled: LVRT, HVRT, LFRT, ZVRT, VAR Support, and Voltage Regulation.

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Interconnection Agreement Appendix 5

	Overall Anti- Islanding	Disconnect inverter from system PCC	2.00	0.083
	Steady State Power Factor (± 0.95 Control Range)	DISABLE		
LVRT	Low Voltage Ride Through	DISABLE		
HVRT	High Voltage Ride Through	DISABLE		
LFRT	Low Frequency Ride Through	DISABLE		
ZVRT	Impedance Voltage Ride Through	DISABLE		
	VAR Support	DISABLE		
	Voltage Regulation	DISABLE		

 Table 1: DG Inverter Settings

All the data, requested in Table 2, is necessary to perform detailed short-circuit studies. If the inverter manufacturer provides Aspen OneLiner parameters, a detailed test report must be provided to DNCP for review. The test report should include test environment and method, sequence impedance calculations, and any assumptions used.

Inverter Data (Valid for Widest Range of Faults up to 6 Cycles)	P.U. Value
Inverter Equivalent MVA Base	
Short-Circuit Equivalent Positive Sequence Resistance (R1)	
Short-Circuit Equivalent Positive Sequence Reactance (XL ₁)	
Short-Circuit Equivalent Negative Sequence Resistance (R2)	
Short-Circuit Equivalent Negative Sequence Reactance (XL ₂)	
Short-Circuit Equivalent Zero Sequence Resistance (R ₀)	
Short-Circuit Equivalent Zero Sequence Reactance (XL ₀)	

Table 2: DG Inverter Data provided in per-unit of inverter MVA base.

The required relay functions and the corresponding set points, with each sectionalizing all of the DG owner's generation and <u>always enabled on the ALR regardless of the operating condition</u>, are listed in the following table:

Function		Set Point	Duration to Disconnection (sec)	
27	Undervoltage	75 % of nominal operating voltage	2.0	
59	Overvoltage	110% of nominal operating voltage	2.0	

81U	Underfrequency	59.5 Hz	2.0
810	Overfrequency	60.5 Hz	2.0
51	Phase Time-delay Overcurrent	Set for minimum, with adequate load allowance	Maintain proper coordination with DG owner high side fuse

Table 3: ALR Set Points

Moreover, harmonics (voltage and current) if not controlled can be a source of problems on the DNCP network. Though it is definitive that small scale PV systems (i.e. about 10 kW dc or less) have little to no significant harmonic effects on the system provided their associated converter meets the IEEE standard 519 (Guideline for Harmonic Control and Reactive Compensation of Static Power Converter), the impacts of larger scale PV systems are far less certain. It is a general consensus that a concentration of small sources of harmonic distortion - as little as they could be - can have a significant effect on the overall utility network's power quality as the effect of harmonics are cumulative.

It is imperative that harmonics are not ignored in this particular 6.50/5.0 MVA dc/ac interconnection request.

In Summary, **Power Quality baseline readings** will be required at the PCC before and after the interconnection is completed in order to monitor the harmonic effects of the Generation unit and will be obtained at the DG owner's expense. Also, if there is evidence that the Total Harmonic Distortion (THD) or Total Demand Distortion (TDD) is greater than or equal to 5%, or harmonic distortion for any single harmonic is greater than or equal to 3%, the DG owner would be required to add a filtering system to its installation to meet the requirements of IEEE 519.

Furthermore, as we gain more knowledge about the inverter technology and the effect of inverter based DG on the DNCP EPS, we may call for additional review of existing and/or pending interconnection requests. We have learned through recent IEEE/PES/PSRC work, WG C-17 Report as well as through our participation in the IEEE 1547 Standard working groups, that Photovoltaic (PV) or Solar (inverter-based) generation marketed to North America utilize back-to-back converters/inverters similar to a Type 4 Wind Turbine Generator (WTG). One characteristic, that is of particular concern, is the inverter's design choice to not produce any zero sequence current I₀. Since $I_0 = V_0 / Z_0$, the Z_0 (further represented by $R_0 + jX_0$) in effect becomes very (or infinitely) large. Even though a wye-ground - wye-ground transformer connection passes zero sequence current, there will be no zero sequence current to pass to the fault location with inverter based generation. Essentially, effective grounding cannot be maintained with such a transformer winding configuration and DNCP's effectively grounded EPS must remain effectively grounded. With that established, for a condition where the utility opens all three phases to a system segment of its EPS to clear a phase-to-ground fault and the DG remains connected to the islanded segment of the EPS for a period of time, phase-neutral voltages on the un-faulted phases will rise to near phase-to-phase values.

To come back to the result of our current review, our initial analysis has shown that during a system disturbance with a loss of the grounded utility source, the voltage on un-faulted phases of the circuit will rise to full phase-to-phase voltage which could damage DNCP's equipment (rated for a phase-to-neutral voltage), other DNCP customer's equipment, and also DNCP DG owner's equipment.

Our current requirement for a solution to that concern is for the DG owner to install twowinding transformers with a grounded-wye (towards utility) and a delta on the inverter side (isolation or step-up transformer). An alternative option will be to apply a ground bank transformer [zigzag or wye (utility side) – delta (floated)] at (near) the point where the generation is connected. The objective is to obtain a balance of the ground fault current such that effective grounding is maintained on the utility without adversely impacting ground fault protection and coordination. This design will pass enough zero sequence current to keep the circuitry effectively grounded in all cases; but not introduce so much zero sequence current that coordination (pick-up, time, and reach) cannot be successfully achieved. It should be noted by the DG owner's Engineering/Technical representative that if a ground bank installation is utilized, the Protection and Control scheme design must remove/prevent the connection of any/all inverters with the DNCP EPS at ALL times when the ground bank is off-line (not in service), for any reason.

this DG With reference perspective established. it will be the owner's engineering/Technical representative's responsibility to select and apply the proper size ground bank or isolation transformer with H0 bushing-to-ground impedance (resistance). While DNCP may recommend a range with respect to the neutral ground resistance (NGR) size or base impedance of the grounding bank, DNCP will not size the equipment for the DG owner. DNCP will only review and grant approval of the design from our perspective. Additionally, it is important that the final details on the Grounded-Wye/Delta isolation transformers be provided as soon as possible for DNCP to review due to the importance of the effective grounding and coordination issue that may be introduced.

Since the installation of the Dominion-owned ALRs at the PCC and up-line, associated relaying, as well as the <u>Protective Relaying and Power Quality package</u>, and the related additional substation work are all provided at the DG owner expense, we will need to work out the details to coordinate the planned interconnection with the associated engineering, equipment acquisition and installation times. Please note that the DG owner <u>will not be allowed to interconnect until all the permanent facilities and associated relaying are installed, tested and fully functional.</u>

Finally, please confirm details concerning the DG owner's final <u>inverter model</u>, interface <u>transformer specifications</u> (i.e. transformer impedance, load losses, etc.), the <u>applied</u> <u>inverter trip points</u> as well as the <u>high side fuse make, model and rating</u> information of the isolation transformer as soon as possible. If the DG owner chooses to utilize a grounding transformer to comply with DNCP effective grounding requirements, please provide us with the grounding bank information (type, load losses, zero sequence

Interconnection Agreement Appendix 4

impedance, maximum neutral fault current, etc.) for review and approval. Please contact the Utility at (804) 257-4015 if you have any questions or need additional information.

Utility's Description of its Upgrades

Distribution Upgrades for 5 MW of Generation

• Engineering and relay resets at Tunis Substation and Developer's Site

Total cost for all distribution upgrades equals \$85,306.00.

The cost for all work necessary to facilitate the interconnection will be \$218,844.81 and must be paid prior to starting work.

EXHIBIT B General Terms and Conditions

I - Assignments

Operator agrees not to assign this Agreement without the prior written consent of Dominion North Carolina Power. Dominion North Carolina Power may withhold such consent if it determines, in its sole discretion, that such assignment would not be in the best interests of Dominion North Carolina Power or its customers. Any attempted assignment that Dominion North Carolina Power has not approved in writing shall be null and void and ineffective for all purposes. In the event of assignment by Operator, Operator shall pay Company within thirty (30) days of the effective date of the assignment up to a maximum amount of \$10,000 per assignment; provided, however, assignment of this Agreement by Operator in connection with an initial financing arrangement which is finalized and for which consent of Company is requested within nine months of the Effective Date of this Agreement shall not be subject to the payment requirement provided herein.

II - Indemnity

Operator shall indemnify and save harmless and, if requested by Dominion North Carolina Power, defend Dominion North Carolina Power, its officers, directors and employees from and against any and all losses and claims or demands for damages to real property or tangible personal property (including the property of Dominion North Carolina Power) and injury or death to persons arising out of, resulting from, or in any manner caused by the presence, operation or maintenance of any part of Operator's Facility; provided, however, that nothing herein shall be construed as requiring Operator to indemnify Dominion North Carolina Power for any injuries, deaths or damages caused by the sole negligence of Dominion North Carolina Power. Operator agrees to provide Dominion North Carolina Power written evidence of liability insurance coverage, which is specifically and solely for the Facility, prior to the operation of the Facility. Operator agrees to have Dominion North Carolina Power named as an additional insured, and shall keep such coverage current throughout the term of this Agreement.

III - QF Certification

Operator represents and warrants that its Facility meets the Qualifying Facility requirements established as of the Effective Date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations Part 292), and that it will continue to meet those requirements necessary to remain a Qualifying Facility throughout the term of this Agreement. [Dominion North Carolina Power may require "FERC" QF Certification by adding the following: "Operator agrees to obtain, at Operator's expense, a certification as a "QF" from the Federal Energy Regulatory Commission, in accordance with 18 C.F.R. § 292.207 (b)."] Operator agrees to provide copies, at the time of submittal, of all correspondence and filings with the Federal Energy Regulatory Commission relating to obtaining certification of the

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Facility as a "QF". Operator will submit prior to delivery of electrical output from the Facility to Dominion North Carolina Power evidence of Qualifying Facility certification. After the Commercial Operations Date, if requested by Dominion North Carolina Power prior to March 1 of any year, Operator agrees to provide July 1 of the same year to Dominion North Carolina Power for the preceding year sufficient for Dominion North Carolina Power to determine the Operator's continuing compliance with its QF requirements, including but not limited to:

(a) All information required by FERC Form 556.

(b) Copy of the Facility's QF Certification and any subsequent revisions or amendments,

(c) Provide a copy of any contract executed with a thermal host.

(d) Identification of the amount of each type of fuel used per month and average heating value for each type of fuel, which will be used to determine the Total Energy Input. These values should be verifiable by auditing supporting documentation.

(e) Identification of each of the QF's useful thermal output(s) for each month, including temperature, pressure, amount of thermal output delivered, temperature and amount of condensate returned (if applicable) and the conversion to Btus. These values should be verifiable by auditing supporting documentation.

(f) Identification of the QF's useful power output for each month. These values should be verifiable by auditing supporting documentation.

(g) Provide drawings, heat balance diagrams and a sufficiently detailed narrative describing the delivery of useful thermal output including the location, description, and calibration data for all metering equipment used for QF calculations.

(h) Provide any other information which the QF believes will facilitate Dominion North Carolina Power's monitoring of the QF requirements.

(i) Dominion North Carolina Power may request additional information, as needed, to monitor the QF requirements.

IV - Consequential Damages

In no event shall either Party be liable to the other for any special, indirect, incidental or consequential damages whatsoever, except that the foregoing shall not apply to any promises of indemnity or obligations to reimburse the Parties expressly set forth in this Agreement.

V - Amendments, Waivers, Severability and Headings

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This Agreement, including the appendices thereto, can be amended only by agreement between the Parties in writing. The failure of either Party to insist in any one or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provisions or the relinquishment of any such right or any other right hereunder. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the Parties shall be deemed to be reduced only as much as may be required to remove the impediment. The headings contained in this Agreement are used solely for convenience and do not constitute a part of the Agreement between the Parties hereto, nor should they be used to aid in any manner in the construction of this Agreement.

VI - Compliance with Laws

Operator covenants that it shall comply with all applicable provisions of Executive Order 11246, as amended; § 503 of the Rehabilitation Act of 1973, as amended; § 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; and implementing regulations set forth in 41 C.F.R. §§ 60.1, 60-250, and 60-741 and the applicable provisions relating to the utilization of small minority business concerns as set forth in 15 U.S.C. § 637, as amended. Operator agrees that the equal opportunity clause set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 250.5 and 41 C.F.R. 60-§741.5 and the clauses relating to the utilization of small and minority business concerns set forth in 15 U.S.C. § 637(d)(3) and 48 C.F.R. § 52-219.9 are hereby incorporated by reference and made a part of this Agreement. If this Agreement has a value of more than \$500,000, Operator shall adopt and comply with a small business and small disadvantaged business subcontracting plan which shall conform to the requirements set forth in 15 U.S.C. § 637(d)(6). The provisions of this section shall apply to Operator only to the extent that:

(a) such provisions are required of Operator under existing law,

(b) Operator is not otherwise exempt from said provisions and

(c) Compliance with said provisions is consistent with and not violative of 42 U.S.C. § 2000 et seq., 42 U.S.C. § 1981 et seq., or other acts of Congress.

VII - Interconnection and Operation

Operator shall be responsible for the design, installation, and operation of its Facility. Operator shall be responsible for obtaining an Interconnection Agreement. Interconnection guidelines and agreement requirements are set forth in Exhibit A of this Agreement.

Operator shall: (a) maintain the Facility and the Interconnection Facilities on Operator's side of the Interconnection Point, except Dominion North Carolina Power-owned Interconnection Facilities, in conformance with all applicable laws and regulations and in accordance with operating procedures; (b) obtain any governmental authorizations and permits

required for the construction and operation thereof and keep all such permits and authorizations current and in effect; and (c) manage the Facility in a safe and prudent manner. If at any time Operator does not hold such authorizations and permits, Dominion North Carolina Power may refuse to accept deliveries of power hereunder.

Dominion North Carolina Power may enter Operator's premises (a) to inspect Operator's protective devices at any reasonable time; (b) to read or test meters and metering equipment; and (c) to disconnect, without notice, the Facility if, in Dominion North Carolina Power's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or Dominion North Carolina Power facilities or other customers' facilities from damage or interference caused by Operator's Facility or lack of properly operating protective devices. Dominion North Carolina Power will endeavor to notify Operator as quickly as practicable if disconnection occurs as provided in (c) above. Any inspection of Operator's protective devices shall not impose on Dominion North Carolina Power any liabilities with respect to the operation, safety or maintenance of such devices.

Operator shall not operate the Facility in parallel with Dominion North Carolina Power's system prior to (a) an inspection of the installed Interconnection Facilities by an authorized Dominion North Carolina Power representative and (b) receiving written authorization from an authorized Dominion North Carolina Power representative to begin parallel operation.

VIII - Metering

Dominion North Carolina Power will meter all electrical output delivered from the Facility on the high voltage side of the step up transformer.

Operator agrees to pay an administrative charge to Dominion North Carolina Power to reflect all reasonable costs incurred by Dominion North Carolina Power for meter reading and billing, also referred to as metering charges. The monthly meter reading and billing charge shall change from time to time when the NCUC approves a different charge in Schedule 19-FP.

In addition, Operator agrees to pay any fees required to provide and maintain leased telephone lines required for meter reading by Dominion North Carolina Power.

IX - Billing and Payment

Dominion North Carolina Power shall read the meter in accordance with its normal meter reading schedule. Within twenty-eight (28) days thereafter, Dominion North Carolina Power shall send Operator payment for energy and Contracted Capacity delivered. At Dominion North Carolina Power's option, (i) Dominion North Carolina Power may make such payments net of the monthly metering charges, Interconnection Facilities charges, and charges for sales of electricity to the Operator, or (ii) Dominion North Carolina Power may invoice Operator for such charges separately. Payment by Dominion North Carolina Power shall include verification showing the billing month's ending meter reading, on-peak and off-peak kWh, and the amount paid. If in any month the monthly metering and Interconnection Facilities charges are in excess of any payments due Operator, Dominion North Carolina Power shall bill Operator for the

Page 12 of 19

difference and Operator shall make such payment within 28 days of the invoice date. Failure by Operator to make such payments may result in disconnection of the Facility. In no event shall such disconnection relieve Operator of its obligation to pay monthly metering charges and Interconnection Facilities charges under this Agreement.

In the event that any data required for billing purposes hereunder are unavailable when required for such billing, the unavailable data shall be estimated by Dominion North Carolina Power, based upon historical data. Such billing shall be subject to any required adjustment in a subsequent billing month.

Operator agrees that Dominion North Carolina Power shall be entitled to withhold sufficient amounts due pursuant to this Agreement to offset (a) any damages to Dominion North Carolina Power resulting from any breach of this Agreement by Operator, and (b) any other amounts Operator owes Dominion North Carolina Power, including amounts arising from sales of electricity by Dominion North Carolina Power to Operator, metering charges and Interconnection Facilities charges.

In no event shall Dominion North Carolina Power be liable to Operator for any Contracted Capacity payments in excess of the amounts contracted for herein, regardless of the ultimate length of this Agreement or revisions to Schedule 19-FP or successor schedules. Operator hereby agrees to accept the Contracted Capacity payments as set forth herein as its sole and complete compensation for delivery of Contracted Capacity to Dominion North Carolina Power.

X - Force Majeure

Neither Party shall be considered in default under this Agreement or responsible to the other Party in tort, strict liability, contract or other legal theory for damages of any description for any interruption or failure of service or deficiency in the quality or quantity of service or any other failure to perform any of its obligations hereunder to the extent such failure occurs without fault or negligence on the part of that Party and is caused by factors beyond that Party's reasonable control, which by the exercise of reasonable diligence that Party is unable to prevent, avoid, mitigate or overcome, including without limitation storm, flood, lightning, earthquake, explosion, equipment failure, civil disturbance, labor dispute, act of God or public enemy, action or inaction of a court or public authority, fire, sabotage, war, explosion, curtailments, unscheduled withdrawal of facilities from operation for maintenance or repair or any other cause of similar nature beyond the reasonable control of that Party (any such event, "Force Majeure"). Solely economic hardship of either Party shall not constitute Force Majeure under this Agreement. Nor shall anything contained in this paragraph or elsewhere in this Agreement excuse Operator or Dominion North Carolina Power from strict compliance with the obligation of the Parties to comply with the terms of Article IX of this Exhibit B relating to timely payments.

Page 13 of 19

Each Party shall have the obligation to operate in accordance with Good Utility Practice (as defined below) at all times and to use due diligence to overcome and remove any cause of failure to perform.

If a Party relies on the occurrence of an event of Force Majeure described above as a basis for being excused from performance of its obligations under this Agreement, then the Party relying on the Force Majeure event shall:

a) Provide within forty-eight (48) hours written notice of such Force Majeure event or potential Force Majeure to the other Party, giving an estimate of its expected duration and the probable impact on the performance of its obligations hereunder;

b) Exercise all reasonable efforts to continue to perform its obligations under this Agreement;

c) Expeditiously take action to correct or cure the Force Majeure event excusing performance; provided, however, that settlement of strikes or other labor disputes will be completely within the sole discretion of the Party affected by such strike or labor dispute;

d) Exercise all reasonable efforts to mitigate or limit damages to the other Party; and

e) Provide prompt notice to the other Party of the cessation of the Force Majeure event giving rise to its excuse from performance. All performance obligations hereunder shall be extended by a period equal to the term of the resultant delay.

If a Party responding to a Force Majeure event has the ability to obtain, for additional expenditures, expedited material deliveries or labor production which would allow a response to the event in a manner that is above and beyond Good Utility Practice, and such a response could shorten the duration of the Force Majeure event, the Party responding to the event may, at its discretion, present the other Party with the option of funding the expenditures for expediting material deliveries or labor production in an effort to reduce the duration of the event and economic hardship. Each such opportunity will be negotiated on a case-by-case basis by the Parties.

For purposes of this Agreement, "Good Utility Practice" shall mean any of the applicable practices, methods, standards, guides or acts: required by any governmental authority, regional or national reliability council, or national trade organization, including NERC, SERC, or the successor of any of them, as they may be amended from time to time whether or not the Party whose conduct is at issue is a member thereof; otherwise engaged in or approved by a significant portion of the electric utility industry during the relevant time period which in the exercise of reasonable judgment in light of the facts known or that should have been known at the time a decision was made, could have been expected to accomplish the desired result in a manner consistent with law, regulation, good business practices, generation, transmission and distribution reliability, safety, environmental protection, economy and expediency. Good Utility Practice is intended to be acceptable practices, methods, or acts generally accepted in the region,

Page 14 of 19

or any other acts or practices as are reasonably necessary to maintain the reliability of the Transmission System (as defined in the Interconnection Agreement), or of the Facility, and is not intended to be limited to the optimum practices, methods, or acts to the exclusion of all others.

EXHIBIT C

Exhibit C is a copy of Schedule 19-FP.

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

I. APPLICABILITY AND AVAILABILITY

This schedule is applicable to any qualifying Cogenerator or Small Power Producer (Qualifying Facility) which desires to deliver all of its net electrical output to the Company, has either (1) generating facilities designated as new capacity as defined by 18 C.F.R. § 292.304(b)(1), or (2) hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), and enters into an agreement for the sale of net electrical output to the Company (Agreement).

Unless otherwise provided by a Commission order setting forth different availability dates, this schedule is available to any Qualifying Facility (otherwise eligible pursuant to the terms hereof) that by November 1, 2014 or the date upon which proposed rates are filed in Docket No. E-100 Sub 140, if later than November 1, 2014, (a) has obtained a certificate of public convenience and necessity for its facility from the Commission or filed a report of proposed construction with the Commission pursuant to Commission Rule 8-65, and (b) has indicated to the Company in writing that it is committed to selling the output of the facility to the Company pursuant to the terms of this schedule.

Where the Qualifying Facility (QF) elects to be compensated for firm deliveries in accordance with this schedule, the amount of capacity under contract and the initial term of contract shall be limited as follows:

- A. Where the QF operates hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), or where the QF operates non-hydroelectric QFs fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind, and non-animal forms of biomass, the amount of capacity subject to compensation shall be no greater than 5,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 5,000 kWh. The initial term of contract for such a QF shall be for a period of 5, 10, or 15 years, at the option of the QF.
- B. Where the QF is not defined under Paragraph I.A., the amount of capacity subject to compensation shall be no greater than 3,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 3,000 kWh. The initial term of contract for such a QF shall be for a period of 5 years.

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

I. APPLICABILITY AND AVAILABILITY (Continued)

Where the QF elects to be compensated for firm or non-firm deliveries in accordance with this schedule, the QF must begin deliveries to the Company within thirty months of February 21, 2014 to retain eligibility for the rates contained in this schedule; provided, however, a QF may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner. Where the QF elects an initial contract term of 10 or more years, such contract may be renewed for subsequent term(s), at the Company's option, based on substantially the same terms and provisions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration the Company's then avoided cost rates and other relevant factors or (2) set by arbitration.

This schedule is not applicable to a QF owned by a developer, or affiliate of a developer, who sells power to the Company from another facility located within one-half mile unless: (1) each facility provides thermal energy to different, unaffiliated hosts; (2) each facility provides thermal energy to the same host, and the host has multiple operations with distinctly different or separate thermal needs; or (3) each facility utilizes a renewable resource which may be subject to geographic siting limitations, such as hydroelectric, solar, or wind power facilities.

II. MONTHLY BILLING TO THE QF

All sales to the QF will be in accordance with any applicable filed rate schedule. In addition, where the QF contracts for sales to the Company, the QF will be billed a monthly charge equal to one of the following to cover the cost of meter reading and processing:

(Continued)

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Docket No. E-100, Sub 136

Feb 27 2015

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

II. MONTHLY BILLING TO THE QF (Continued)

Metering required	<u>Charge</u>
One non-time-differentiated meter	\$17.24
One time-differentiated meter	\$35.55
Two time-differentiated meters	\$41.16

III. DEFINITION OF ON- AND OFF-PEAK HOURS

A. For Option A Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight March 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 10:00 am and 10:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight March 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm., plus 4:00 p.m. through 9:00 p.m., Monday through Friday, excluding holidays considered as off-peak.

(Continued)

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

III, DEFINITION OF ON- AND OFF-PEAK HOURS (Continued)

B. For Option B Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight May 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 1:00 pm and 9:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight May 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm. Monday through Friday, excluding holidays considered as off-peak.

C. Off-Peak Hours:

The off-peak hours in any month are defined as all hours not specified above as on-peak hours. All hours for the following holidays will be considered as off-peak: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

(Continued)

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IV. CONTRACT OPTIONS FOR DESIGNATING MODE OF OPERATION

The QF shall designate under contract its Mode of Operation from the following options, each of which determines the Company's method of payment.

- A. The QF may contract for the delivery of energy to the Company without reimbursement, designated as the Non-reimbursement Mode of Operation; or,
- Β. The QF may contract for the delivery of non-firm energy to the Company (no payment for capacity). This option includes QFs that elect to contract to deliver non-firm energy to the Company on an as-available basis. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less the OF may designate the Non-firm. Non-time-differentiated Mode of Operation. Regardless of nameplate rating the QF may designate the Non-firm, Time-differentiated Mode of Operation.
- C. The QF may contract for the delivery of firm energy and capacity to the Company. The level of capacity which the QF contracts to sell to the Company shall not exceed 5,000 kW, where the QF is defined under Paragraph I.A., or 3,000 kW otherwise. This capacity level, in kW, shall be referred to as the Contracted Capacity. When the QF elects to sell firm energy and capacity, the QF shall designate the Firm Mode of Operation.

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY

The QF may contract to receive payment for energy at rates to be determined with each revision of this schedule. These rates will be based upon the QF's Mode of Operation as described below. There are no capacity payments for the QFs that contract for non-firm energy.

(Continued)

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

- V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY (Continued)
 - A. Non-reimbursement Mode of Operation. Where the QF designates the Non-Reimbursement Mode of Operation, no payment will be made for energy delivered.
 - B. Non-time-differentiated Mode of Operation. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less and the QF designates the Non-Firm, Non-time-differentiated Mode of Operation, the following rates in cents per kWh are applicable:

3.843

C. Time-differentiated Mode of Operation. Where the QF designates the Time-differentiated Mode of Operation, the following On- and Off-peak rates in cents per kWh are applicable:

On-peak	4,541
Off-peak	3.455

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except that upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

(Continued)

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY

QFs designating the Firm Mode of Operation will be eligible to receive purchase payments for the delivery of firm energy by the QF to the Company. The QF may contract to receive payments for firm energy based on A or B, below. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

The QF may contract to receive payment for firm time-differentiated energy at rates to be determined with each revision of this schedule (Variable Rate). These rates in cents per kWh, which reflect the Company's estimated avoided energy cost for delivery of firm energy during 2013 or 2014, are as shown in the price tables below:

A. Option A: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

Fixed Long-Term Rate

	Variable Rate	5-Year	<u>10-Year</u>	<u>15-Year</u>
On-Peak (¢/kWh)	4.541	5.055	5.526	5.813
Off-Peak (¢/kWh)	3.455	3.964	4.388	4.661

B. Option B: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

(Continued)

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY (Continued)

	Fixed Long-Term Rate			
	Variable Rate	5-Year	<u>10-Year</u>	15-Year
On-Peak (¢/kWh)	4.663	5.194	5.675	5.962
Off-Peak (¢/kWh)	3.614	4.119	4.549	4.824

Any energy delivered above 100% up to 105% of QF's Contracted Capacity in any hour will be purchased at the then applicable non-firm energy rates under Schedule 19-FP. There will be no reimbursement for any energy delivered above 105% of QF's Contracted Capacity.

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY

Company purchases of capacity are applicable only where the QF elects the Firm Mode of Operation. Capacity payments are applicable during on-peak hours only. Such QFs shall receive capacity purchase payments based on the applicable levelized capacity purchase price below, in cents per kWh, corresponding to the contract length in years. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Option A:

For hydroelectric facilities with no storage capability and no other type of generation:

		Capacity Price	
	<u>5-Year</u>	10-Year 15-Year	
On-Peak (¢/kWh) Summer	5,895	6.095 6,263	
On-Peak (¢/kWh) Non-summer	3.930	4.063 4.175	
For all other facilities:			
		Capacity Price	
	5-Year	<u>10-Year</u> <u>15-Year</u>	
On-Peak (¢/kWh) Summer	3.537	3.657 3.758	
On-Peak (¢/kWh) Non-summer	2.358	2.438 2.505	

Option B:

For hydroelectric facilities with no storage capability and no other type of generation:

	Capacity Price				
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 13.524 5.214	<u>10-Year</u> <u>15-Year</u> 13.982 14.368 5.390 5.539			
For all other facilities:		Capacity Price			
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 8.115 3.128	10-Year15-Year8,3898,6213.2343.323			

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Payments will be made to the QF by applying the appropriate levelized capacity purchase price above to all kWh delivered to the Company during each on-peak hour, up to the 100% of the Contracted Capacity in such hour. There will be no compensation for capacity in excess of the QF's Contracted Capacity in an hour. This capacity price will be in accordance with the length of rate term for capacity sales so established in the contract.

VIII. PROVISIONS FOR COMPANY PURCHASE OF THE QF GENERATION

- A. The QF shall own and be fully responsible for the costs and performance of the QF's:
 - 1. Generating facility in accordance with all applicable laws and governmental agencies having jurisdiction;
 - 2. Control and protective devices as required by the Company on the QF's side of the meter.
- B. The sale of power to the Company by a QF at avoided cost rates pursuant to this Schedule 19-FP does not convey ownership to the Company of the renewable energy credits or green tags associated with the QF facility.
- C. Upon request by the Company, the Cogenerator or Small Power Producer must demonstrate that the facility is a Qualifying Facility as defined by PURPA.
- D. Interconnection procedures for the QF's generation interconnection are provided through the Internet at the Company's website; <u>http://www.dom.com/dominion-north-carolina-power/customer-service/rat</u> es-and-tariffs/pdf/term24.pdf.

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IX. MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER

The provisions of this schedule, including the rates for purchase of energy and Contracted Capacity by the Company, are subject to modification at any time in the manner prescribed by law, and when so modified, shall supersede the rates and provisions hereof. However, payments to QFs with contracts for a specified term at payments established at the time the obligation is incurred shall remain at the payment levels established in their contract with the exception of the line loss percentage applied which shall be the percentage stated in the then-current Schedule 19.

If the QF terminates its contract to provide Contracted Capacity and energy to the Company prior to the expiration of the contract term, the QF shall, in addition to other liabilities, be liable to the Company for excess capacity and energy payments.

Such excess payments will be calculated by taking the difference between (1) the total capacity and energy payments already made by the Company to the QF and (2) capacity and energy payments calculated based on the levelized capacity and energy purchase price found in Paragraph VI and VII corresponding to the highest term option completed by the QF. These excess payments shall also include interest, from the time such excess payments were made, compounded annually at the rate equal to the Company's most current issue of long-term debt at the time of the contract's effective date.

X. TERM OF CONTRACT

The term of contract shall be such as may be mutually agreed upon but for not less than one year.

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

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Peter Thain (Generation - 3M)

From: Sent: To: Subject: Greg Ness [gness@flsenergy.com] Tuesday, December 02, 2014 11:17 AM Peter Thain (Generation - 3M) RE: Downs Farm Solar, LLC - LEO

Please use this address description instead:

The official address of the site is 407 NC 45 S, Cofield, NC 27922. Starting at the local town of Cofield, North Carolina, head northwest on NC-45 N towards Bazemore Road for approximately 7.8 miles. The site will be located on the right hand side.

Greg S.K. Ness Assistant General Counsel 130 Roberts Street | Asheville, NC | 28801 O 828.350.3993 | C 404.772.8274 www.flsenergy.com | Making Solar Mainstream

From: Greg Ness Sent: Tuesday, December 02, 2014 11:16 AM To: 'Peter Thain (Generation - 3M)' Subject: Downs Farm Solar, LLC - LEO

Hello Peter:

We have another project located in Cofield, Hertford County, NC for which we've recently received a fully executed IA, and paid the requisite fee.

This e-mail serves to notify and establish a LEO for this project:

Downs Farm Solar, LLC

NC 13058

Entity ID: 59206

Facility ID: 59429

Operator:

Downs Farm Solar, LLC 130 Roberts Street Asheville, NC 28801

The Address:

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EXHIBIT D

Exhibit D is a map and written description identifying the specific location of the Facility and is provided by the Operator.

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EXHIBIT E

Exhibit E is the "Qualifying Facility" Certification to be provided by the Operator.

OR

If Facility is less than 1MW, Owner may submit the following statement as Exhibit E that the Facility qualifies as a Qualifying Facility (QF) under federal law.

Federal law exempts small power production or cogeneration facilities with net power production capacities of 1 MW or less from certain certification requirements in order to qualify as a qualifying facility ("QF" or "Qualifying Facility"). Therefore, <u>[QF Name Here]</u> submits the Facility is exempt from the certification requirements, but submits that the Facility qualifies as a Qualifying Facility under federal law set forth in the Public Utility Regulatory Policies Act of 1978 ("PURPA") (codified at 16 U.S.C. § 824a-3).

Name

Title



November 24, 2014

VIA USPS TWO-DAY DELIVERY

Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, NC 27699-4325

Docket No. SP-4044 Sub Re: Downs Farm Solar, LLC's Application for Certificate of Public Convenience and Necessity and Application to Register a New Renewable Energy Facility

Dear Chief Clerk:

Enclosed for filing please find an Amended Application to Register a New Renewable Energy Facility and an Amended Application for a Certificate of Public Convenience and Necessity to construct a Solar Facility.

These documents are updated to indicate:

- the change in ownership of Downs Farm Solar, LLC. It is now an affiliate of FLS Energy, Inc., so contact name and address information is updated.
- the exact address, which is now available from E-911 addressing
- the expected date by which the facility be operational
- the updated FERC has been filed (and is included in this submission)
- the projected cost of the facility

Please note that all of the attachments are marked Confidential.

Thank you for your assistance. Please contact me regarding any questions.

Van Sincerely,

Veronika Gunter vgunter@flsenergy.com

Enclosures

828.350.3993 www.fisenergy.com

130 Roberts Street Asheville, NC 28801

STATE OF NORTH CAROLINA

UTILITIES COMMISSION

RALEIGH

DOCKET NO. SP

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of the Application of Downs Farm Solar, LLC For a Certificate of Public Convenience And Necessity to Construct a 4.99 MW AC Solar Facility and Registration as a New Renewable Energy Facility

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

Downs Farm Solar, LLC, an Affiliate of FLS Energy, Inc. ("<u>Applicant</u>") hereby applies to the North Carolina Utilities Commission (the "<u>Commission</u>") pursuant to G.S. § 62-110.1 and Commission Rule R864 for a Certificate of Public Convenience and Necessity authorizing construction of a 4.99 megawatt (MW) AC solar facility (the "<u>Facility</u>") to be located in Hertford County.

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

In support of its application, the Applicant shows the Commission as follows:

(Underlined items have been updated or amended since previous filing.)

THE APPLICANT

(i) The Applicant's full and correct name, business address, and business telephone number are:

Downs Farm Solar, LLC <u>130 Roberts Street</u> <u>Asheville, NC 28801</u> <u>(828) 350-3993</u>

The electronic mailing address for purposes of this filing is interconnect@flsenergy.com

(ii) Downs Solar, LLC is a North Carolina limited liability company with its principal place of business in <u>Asheville, North Carolina. Downs Farm</u> <u>Solar, LLC was formed in July 2014</u>. The duly authorized agent for this application is:

<u>FLS Energy, Inc.</u> <u>c/o Greg Ness</u> <u>130 Roberts Street</u> <u>Asheville, NC 28801</u>

THE FACILITY

- (iii) The Facility will be a 4.99 MW (AC) photovoltaic (PV) array.
- (iv) The Facility will be located at <u>407 NC Highway 45 South, Cofield, North</u> <u>Carolina.</u> A map reflecting the location of the facility is included as Application Attachment 1, filed confidentially.
- (v) The Applicant will ground lease the property from Ellen Downs Barnes and W. Hugh Jones, Jr.
- (vi) The Facility will consist of 72-cell polycrystalline PV modules (specification and quantity to be determined) affixed to ground mounted racks supported on driven piles. The system will utilize utility grade inverters, at least 500kW each, and will be interconnected to the grid operated by Dominion North Carolina Power ("<u>DNCP</u>"). The Facility will connect with DNCP via 115kV

transmission or 23 kV distribution (both are on site and has not yet been determined). A representative site layout is included as Attachment 2, filed confidentially.

- (vii) Solar is an intermittent energy source. The generating capacity of the Facility will be approximately 4.99 MW (AC). The Facility is not projected to have a dependable capacity of 5 MW or more
- (viii) A confidential response to this item is included in Attachment 3.
- (ix) The Facility is projected to come online in May 2015.
- (x) Electricity generated by the Facility will be sold to DNCP under a power purchase agreement. The terms of the power purchase agreement are still under negotiation. The service life of the equipment is expected to be thirty (30) years. The projected year one annual production will be approximately 9,750,000 kWhrs with projected annual sales for this facility of \$6,591,000.00. The Facility will produce renewable energy certificates that are eligible for compliance with North Carolina's renewable energy and energy efficiency portfolio standard.
- (xi) The Applicant has filed for self-certification as a Qualifying Facility (OF) under the Federal Energy Regulatory Commission. The Applicant anticipates needing a soil and erosion permit from the Department of Environment and Natural Resources (NCDENR). The Applicant has not received any federal or state permits for the Facility to date. The Applicant will file permits with the Commission once they are received.

Attachments

Three numbered attachments follow this Application form. All attachments are designated as **CONFIDENTIAL INFORMATION** pursuant to the North Carolina Public Records Act, NC Gen. Stat. Section 132-1.2.

VERIFICATION

DOWNS FARM SOLAR, LLC

a North Carolina limited liability company

By: FLS Energy, Inc., its sole Member and Manager

STATE OF NORTH CAROLINA COUNTY OF BUNCOMBE

Dale Freudenberger, CEO of FLS Energy, Inc., on behalf of the corporation, which is the sole member and manager of Downs Farm Solar, LLC, personally appeared before me this day and, being first duly sworn, says that the facts stated in the Application any exhibits, documents, and statements thereto attached are true as he believes.

WITNESS my hand and notarial seal, this 2 day of Noumber, 2014.

Signature of Notary Public

Veronika Gun

Name of Notary Public (Typed or Printed)

1.22.18

Commission expiration date





https://ww



CONFIDENTIAL

ATTACHMENT 3

The projected cost of the facility is \$16,483,200.00

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Note: Please complete the form, print It, have it signed, notarized, make 15 copies and send them to the Chief Clerk of the Commission. Be sure to print a copy for your records as you cannot save data onto the form, nor can you file it online. Be sure to attach additional information, such as maps, as required.

Application to Register a Renewable Energy Facility or New Renewable Energy Facility Pursuant to Rule R8-66

(Applicants should consult Rule R8-66 while completing this form in order to ensure they provide sufficient information.)

Facility name:	Downs Farm Solar
Full and correct name of the owner of the facility:	Downs Solar, LLC (an affiliate of FLS Energy, Inc.)
Business address:	130 Roberts Street, Asheville NC 28801 (updated)
Electronic mailing address:	interconnect@flsenergy.com (ydated)
Telephone number:	828.350.3993 (up dated)
Owner's agent for purposes of this application, if applicable:	n/a
Agent's business address:	n/a
Agent's electronic mailing address:	n/a
Agent's telephone number:	n/a
The owner is: Downs Solar, LLC	Individual Partnership Corporation (including LLC)
If a corporation, state and date of incorporation.	State NC Date July 2014 (up dated)

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If a corporation that is incorporated outside of North Carolina, is it domesticated in North Carolina?	Yes	No
-	n/a	
If a partnership, the name and business address of each general partner. (Add additional sheets if necessary.)		
A Nature of the renewable energy facility:		
1. Describe the facility, including its technology, and the source of its power and_fuel(s). Thermal facilities should describe how its host uses the facility's thermal energy output. (Add additional sheets if necessary.)	4.99 MW AC Fixed Tilt Photovoltai	c System
2. Whether it produces electricity, useful thermal energy, or both.	Electricity	
3. Nameplate capacity in kW/MW (AC) and/or maximum Btu per hour for thermal facilities.	4.99 MW AC	

The location of the facility set forth in terms of local highways, streets, rivers, streams, or other generally known local landmarks. Attach a map, such as a county road map, with the location indicated on the map.	407 NC Highway 45 South, Cofield, NC in Hertford County (Updated)
Site ownership:	
1. Is the site owner other than the facility owner? If yes, who is the site owner?	Yes. Ellen Downs Barnes and W. Hugh Jones, Jr.
2. What is the facility owner's legal interest in the site?	Downs Farm Solar, LLC ground lease the property from the land owner.
List the approvals that are required those that have been obtained. Wir licensed separately, may provide co attestation that approvals for all of	to build and/or operate this facility, and attach copies of nd facilities with multiple turbines, where each turbine is opies of approvals for one such turbine but shall add an the turbines are available for inspection.
1. Federal permits and licenses:	FERC Form 556. (updated)
2. State permits and licenses:	NCDENR
3. Exemptions required for construction and operation of the facility:	n/a
4. Statement of whether each has been obtained or applied for (attach copy of those that have been obtained with this application):	FERC Form has been filed and is attached. (updated)

If the facility has been placed into service, on what date did the facility begin operating?	n/a
If the facility is not yet operating, on what date is the facility projected to be placed into service?	May 2015
If the facility is already operating, what is the amount of energy produced by the facility, net of station use, for the most recent 12-month or calendar-year period? Energy production data for a shorter time period is acceptable for facilities that have not yet operated for a full year.	n/a
What entity does (or will) read the facility's energy production meter(s) for the purpose of issuing renewable energy certificates?	Dominion North Carolina Power
For thermal energy facilities, describe the method to be used to determine the facility's thermal energy production, in BTUs, that is eligible for REC issuance.	n/a
Does the facility participate in a REC tracking system and if so, which one? If not, which tracking system will the facility participate in for the purpose of REC issuance?	NC-RETS

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Feb 27 2015

If this facility has already been the subject of a proceeding or submittal before the Commission, such as a Report of Proposed Construction or a Certificate of Public Convenience and Necessity, please provide the Commission Docket Number, if available. OFFICIAL COPY

Feb 27 2015

The owner of the renewable energy facility shall provide the following attestations, signed and notarized:



VERIFICATION

Downs Farm Solar, LLC

a North Carolina limited liability company

By: FLS Energy, Inc., its sole Member and Manager

By

Dale Freudenberger, CEO

STATE OF NORTH CAROLINA

COUNTY OF BUNCOMBE

Dale Freudenberger, CEO of FLS Energy, Inc., on behalf of the corporation, being the sole Member and Manager of Downs Farm Solar, LLC, personally appeared before me this day and, being first duly sworn, says that the facts stated in the foregoing application and any exhibits, documents, and statements thereto attached are true as he believes.

day of November, 2014. WITNESS my hand and notarial seal, this 21

VMenika Aunter Signature of Notary Public Veronika Gunter

Name of Notary Public

1-22.18

Commission Expiration Date



FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON DC

OMB Control # 1902-0075 Expiration 5/31/2013

1a Full name of appl Downs Farm So	icant (legal entity on whose behalf qualif lar, LLC	ying facility status	s is sought for this facility)
1b Applicant street a 130 Roberts S	iddress treet		
1c City Asheville		1d State/provi	nce
1e Postal code 28801	1f Country (if not United States)		1g Telephone number 828-350-3993
1h Has the instant fa	cility ever previously been certified as a C	QF? Yes 🛛 N	lo 🗌
1i If yes, provide the	docket number of the last known QF filin	ig pertaining to th	nis facility: QF14 - 23 - 002
1j Under which certi	fication process is the applicant making t	his filing?	
Notice of self-ce (see note below	rtification	Application for Co ee; see "Filing Fee	mmission certification (requires filing " section on page 3)
Note: a notice of se QF status. A noti notice of self-cer section on page 3	If-certification is a notice by the applican ce of self-certification does not establish tification to verify compliance. See the "V 3 for more information.	t itself that its faci a proceeding, and What to Expect Fro	ility complies with the requirements for d the Commission does not review a om the Commission After You File"
1k What type(s) of Q	F status is the applicant seeking for its fac	ility? (check all th	at apply)
Qualifying smal	I power production facility status	Qualifying cogene	eration facility status
1 What is the purpo	se and expected effective date(s) of this f	iling?	
Original certifica	ation; facility expected to be installed by	ar	nd to begin operation on
Change(s) to a p (identify type)	previously certified facility to be effective) of change(s) below, and describe chang	on <u>11/4/14</u> Je(s) in the Miscell	laneous section starting on page 19)
🔲 Name chang	ge and/or other administrative change(s)		
🛛 Change in o	wnership		
Change(s) at	ifecting plant equipment, fuel use, power	r production capa	city and/or cogeneration thermal output
Supplement or c (describe the su	orrection to a previous filing submitted c pplement or correction in the Miscellane	on ous section startir	ng on page 19)
	wing three statements is true, check the sible, explaining any special circumstance	box(es) that desci es in the Miscellar	ribe your situation and complete the form neous section starting on page 19.
1m If any of the follo to the extent pos			virtue of a waiver of certain regulations
1m If any of the follo to the extent post The instant fac previously gra orders in the f	cility complies with the Commission's QF inted by the Commission in an order date Viscellaneous section starting on page 19	requirements by ed 9)	(specify any other relevant waiver
 If any of the follo to the extent post The instant far previously grading orders in the far Concurrently to 	cility complies with the Commission's QF anted by the Commission in an order date Viscellaneous section starting on page 19 cility would comply with the Commission with this application is granted	requirements by ed 9) 9's QF requiremen	(specify any other relevant waiver

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FE	RC Form 556			Pa	age - All Facilities	, 🧕
	2a Name of contact person Veronika Gunter	ang ng pang na sa ng pang ng pa		2b Telephone number 828-350-3993	f	ALO
formation	2c Which of the following describes the contact person's relationship to the applicant? (check one) Applicant (self) Employee, owner or partner of applicant authorized to represent the applicant Merconsultant, or other representative authorized to represent the applicant on this matter Lawyer, consultant, or other representative authorized to represent the applicant on this matter 2d Company or organization name (if applicant is an individual, check here and skip to line 2e) Image: State					5 OFFICI
2e Street address (if same as Applicant, check here and skip to line 3a)						eb 27 201
U	2f City	<u></u>	2g State/prov	ince		
	2h Postal code	2i Country (if not United	States)	L		
on	3a Facility name Downs Farm	I		<u>, , , , , , , , , , , , , , , , , , , </u>	na se de la composition de la composit	
d Locati	3b Street address (if a street address 407 NC Highway 45 South	does not exist for the faci	lity, check here a	nd skip to line 3c)		0
fication an	3c Geographic coordinates: If you in then you must specify the latitud the following formula to convert degrees + (minutes/60) + (second provided a street address for you	ndicated that no street add le and longitude coordina to decimal degrees from o ds/3600). See the "Geogr r facility in line 3b, then sp	dress exists for yo tes of the facility degrees, minutes raphic Coordinat pecifying the geo	our facility by checking th in degrees (to three deci and seconds: decimal d es" section on page 4 for graphic coordinates belo	e box in line 3b, mal places). Use egrees = help. If you ow is optional.	
denti	Longitude	degrees	Latitude	☐ North (+) ☐ South (-)	degrees	
ility le	3d City (if unincorporated, check her Cofield	re and enter nearest city) [3e State/p.	rovince		
Fac	3f County (or check here for indeper Hertford	ndent city) 🗌 🛛 3g	Country (if not	United States)		0
,	Identify the electric utilities that are c	ontemplated to transact v	vith the facility.	an a	Sibili Antony Steven and Antony Statements	
lities	4a Identify utility interconnecting w Dominion North Carolina	ith the facility Power	• • • • • • • • • • • • • • • • • • •		,	
ng Uti	4b Identify utilities providing wheeling service or check here if none					0
nsactir	4c Identify utilities purchasing the useful electric power output or check here if none Dominion North Carolina Power			0		
Trar	4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none X					0

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FERC Form 556 Page - All Facilities 5a Direct ownership as of effective date or operation date: Identify all direct owners of the facility holding at least 10 percent equity interest. For each identified owner, also (1) indicate whether that owner is an electric utility, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) for owners which are electric utilities or holding companies, provide the percentage of equity interest in the facility held by that owner. If no direct owners hold at least 10 percent equity interest in the facility, then provide the required information for the two direct owners with the largest equity interest in the facility. Electric utility or If Yes. holding % equity Full legal names of direct owners company interest 1) Downs Farm Solar, LLC Yes No 🕅 2) ક Yes 🗍 No 🗂 . 8 3) Yes 🗍 No 🗌 4) 웡 · Yes 🗌 No 🗖 응 5) Yes 🗍 No 🗖 용 6} Yes 🗍 No 🕅 웅 7) Yes 🗍 No 🗍 8) 웅 Yes 🗍 No 🗖 Ownership and Operation 9) 옿 Yes 🗌 No 🗖 10) 8 Yes 🗍 No 🕅 Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed 5b Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all upstream (i.e., indirect) owners of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) are electric utilities, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding companies, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also provide the percentage of equity interest in the facility held by such owners. (Note that, because upstream owners may be subsidiaries of one another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist. % equity Full legal names of electric utility or holding company upstream owners interest 1) 2) 3) 4) ક 5) 6) 2 · 7) 웡 8) g 9) ક્ર 10) Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed **5c** Identify the facility operator Downs Farm Solar, LLC

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Feb 27 2015

FE	FERC Form 556 Page - All Facilities								
	6a Describe the primary energy input: (check one main category and, if applicable, one subcategory)								
		🔲 Bioma	🗌 Biomass (specify)			ources (specify)	🔄 Geothermal	🔲 Geothermal	
		🗆 I	_andfill gas		🔲 Hydro po	wer - river	Fossil fuel (spe	cify)	
			Manure digester gas		🔲 Hydro po	wer - tidal	🔲 Coal (not	waste)	
			Municipal solid waste		🔲 Hydro po	wer-wave	🔲 Fuel oil/c	liesel	
			Sewage digester gas		🛛 Solar-ph	otovo l taic	🔲 Natural g	as (not waste)	
		□ \	Nood		🗌 Solar-th	ermal	Other fos	Other fossil fuel	
] Other biomass (describe on pag		🔲 Wind) Wind 🖵 (describ		e on page 19)	
		🔲 Waste	(specify type below in line 6	ib)	Other rer (describe	ewable resource on page 19)	e 🔲 Other (describe	e on page 19)	
	6b	6b If you specified "waste" as the primary energy input in line 6a, indicate the type of waste fuel used: (check one)							
Energy Input	Waste fuel listed in 18 C.F.R. § 292.202(b) (specify one of the following)								
		Anthracite culm produced prior to July 23, 1985							
		Anthracite refuse that has an average heat content of 6,000 Btu or less per pound and has an average ash content of 45 percent or more							
	Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and h average ash content of 25 percent or more						l has an		
	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Manager (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided the applicant shows that the latter coal is an extension of that determined by BLM to be waste							been Management ovided that Iste	
		Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by the BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste						vaste by the ovided that	
	Lignite produced in association with the production of montan wax and lignite that becomes e as a result of such a mining operation						es exposed		
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)							
	Waste natural gas from gas or oil wells (describe on page 19 how the gas meets the requirements of 1 C.F.R. § 2.400 for waste natural gas; include with your filing any materials necessary to demonstrate compliance with 18 C.F.R. § 2.400)							ments of 18 onstrate	
	Materials that a government agency has certified for disposal by combustion (describe on page 19							page 19)	
			Heat from exothermic read	tions (desc	ribe on page 1	9)	Residual heat (describ	e on page 19)	
	Used rubber tires Plastic materials Refinery off-gas Petroleum co							oleum coke	
	Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)								
	6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).								
		Fuel			nual average (out for specifie	energy ed fuel	Percentage of total annual energy input		
			Natural gas			0 Btu/h	0 %]	
			Oil-based fuels			0 Btu/h	0 %		
			Coal			0 Btu/h	0 %		

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Page - All Facilities

Indicate the maximum gross and maximum net electric power production capacity of the facility at the point(s) of
delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/or losses identified in
lines 7b through 7e are negligible, enter zero for those lines.**7a** The maximum gross power production capacity at the terminals of the individual generator(s)
under the most favorable anticipated design conditions6, 509 kW**7b** Parasitic station power used at the facility to run equipment which is necessary and integral to

76 Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.

7c Electrical losses in interconnection transformers

7d Electrical losses in AC/DC conversion equipment, if any

7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility

7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e
 7g Maximum net power production capacity = 7a - 7f

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

The 4.99MWac (6.50MWdc) Photovoltaic Generator will be located on approximately 40 acres of land at 407 NC Highway 45 South, Cofield, North Carolina, in Hertford County. The generator will have a security fence and will operate without personnel on site.

The Downs Farm 4.99MWac Solar Photovoltaic Generator system is a ground mounted solar facility consisting of approximately 21,660 x 300 Watt Polycrystalline solar collectors, mounted upon racking, utilizing 6 x 750 kw inverters, and balance of system including high voltage transformers, wiring, combiner boxes and disconnects, and PV System remote monitoring.

FERC Form 556

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0 kW

80 kW

0 kW

80 kW

160.0 kW
Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) *as amended by* Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable).

8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest.

e S	Check here if no such facilities exist	. 🛛				
olian	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity		
mp	1)	QF		kW		
f Cc	2)	QF		kW		
e Li o	3)	QF		kW		
atio Siz	Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed					
Certific with	8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? [] Yes (continue at line 8c below) 8c Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes [] No [] 8d Did construction of the facility commence on or before December 31, 1999? Yes [] No []					
	8e If you answered No in line 8d, i the facility, taking into account all f a brief narrative explanation in the particular, describe why construction toward completion of the facility.	ndicate whether reason actors relevant to cons Miscellaneous section on started so long after	nable diligence was exercised tow truction? Yes No If yo starting on page 19 of the constru- the facility was certified) and the	vard the completion of u answered Yes, provide uction timeline (in diligence exercised		
ompliance quirements	Pursuant to 18 C.F.R. § 292.204(b), or amounts, for only the following pu prevention of unanticipated equips the public health, safety, or welfare used for these purposes may not ex period beginning with the date the	qualifying small power rposes: ignition; start-u ment outages; and alle , which would result fro cceed 25 percent of the facility first produces o	production facilities may use foss up; testing; flame stabilization; convision or prevention of emergen om electric power outages. The a total energy input of the facility electric energy or any calendar ye	il fuels, in minimal ntrol use; alleviation or cies, directly affecting mount of fossil fuels during the 12-month ar thereafter.		
of C Re	9a Certification of compliance with	18 C.F.R. § 292.204(b)	with respect to uses of fossil fuel			
ion (Use	Applicant certifies that the	facility will use fossil fu	els <i>exclusively</i> for the purposes lis	ted above.		
cati uel	9b Certification of compliance with	n 18 C.F.R. § 292.204(b)	with respect to amount of fossil i	fuel used annually:		
Certifi with F	Applicant certifies that the percent of the total energy facility first produces electr	amount of fossil fuel us input of the facility du ic energy or any calenc	sed at the facility will not, in aggre ring the 12-month period beginn lar year thereafter.	egate, exceed 25 ing with the date the		

Feb 27 2015

General Cogeneration

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Page - Cogeneration Facilities

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Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking gualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

Pursuant to 18 C.F.R. § 292.202(c), a cogeneration facility produces electric energy and forms of useful thermal energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes, through the sequential use of energy. Pursuant to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a toppingcycle cogeneration facility, the use of reject heat from a power production process in sufficient amounts in a thermal application or process to conform to the requirements of the operating standard contained in 18 C.F.R. § 292.205(a); or (2) for a bottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal application or process for power production. 10a What type(s) of cogeneration technology does the facility represent? (check all that apply) Topping-cycle cogeneration Bottoming-cycle cogeneration **10b** To help demonstrate the sequential operation of the cogeneration process, and to support compliance with other requirements such as the operating and efficiency standards, include with your filing a mass and heat balance diagram depicting average annual operating conditions. This diagram must include certain items and meet certain requirements, as described below. You must check next to the description of each requirement below to certify that you have complied with these requirements. Check to certify compliance with indicated requirement Requirement Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process. Information Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation. Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values. Diagram must specify average gross electric output in kW or MW for each generator. Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power Π generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output. At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s),

temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is *liquid only* (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K).

Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.

Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.

Diagram must specify working fluid flow conditions at make-up water inputs.

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27 2015

EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies 11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No

Yes

No

11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006?

If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.

11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?

Yes (continue at line 11d below)

with such requirements.

No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.

11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?

Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11i.

No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were 1 initiated on or after February 2, 2006. Continue below at line 11e.

11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?

Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § \Box 292.205(d)(2) by continuing at line 11f below.

No. Applicant certifies that energy will not be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) before selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.

11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?

Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11i.

No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.

Page - Cogeneration Facilities

Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2).

11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal	
generation plant losses and parasitic loads) expected to be used annually for industrial,	
commercial, residential or institutional purposes and not sold to an electric utility	MWh
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be	
sold to an electric utility	MWh
11i Percentage of total annual energy output expected to be used for industrial,	
commercial, residential or institutional purposes and not sold to a utility	
= 100 * 11g /(11g + 11h)	0 %

11j Is the response in line 11i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to

comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. *See* Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the relevant annual standard, taking into account expected variations in production conditions.

Feb 27 2015

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.

12a Identify and describe each thermal host, and specify the annual average rate of thermal output made available to each host for each use. For hosts with multiple uses of thermal output, provide the data for each use *in separate rows*.

Average annual rate of

Name c taki	of entity (thermal host) ng thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	attributable to use (net of heat contained in process return or make-up water)
1)	Sel	ect thermal host's relationship to facility	
1) 	Sel	ect thermal host's use of thermal output	Btu/h
2)	Sel	ect thermal host's relationship to facility	
<i>~)</i>	Sel	ect thermal host's use of thermal output	Btu/h
21	Sel	ect thermal host's relationship to facility	
	Sel	ect thermal host's use of thermal output	. Btu/h
A)	Sel	ect thermal host's relationship to facility	
	Sel	ect thermal host's use of thermal output	Btu/h
51	Sel	ect thermal host's relationship to facility	
	Sel	ect thermal host's use of thermal output	Btu/h
6)	Sel	ect thermal host's relationship to facility	
0)	Sal	ect thermal host's use of thermal output	Ptu/h

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Feb 27 2015

Topping-Cycle Operating and

Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy output of the facility, be no less than 45 percent of the total energy output of the facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below.

If you indicated in line 10a that your facility represents *both* topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13I below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system.

13a Indicate the annual average rate of useful thermal energy output made available		
to the host(s), net of any heat contained in condensate return or make-up water	Bt	tu/h
13b Indicate the annual average rate of net electrical energy output		
	kV	N
13c Multiply line 13b by 3,412 to convert from kW to Btu/h		
	0 Bt	:u/ł
13d Indicate the annual average rate of mechanical energy output taken directly off		
of the shaft of a prime mover for purposes not directly related to power production		
(this value is usually zero)	h	b
13e Multiply line 13d by 2,544 to convert from hp to Btu/h	· · · ·	
	n Bt	:u/ł
13f Indicate the annual average rate of energy input from natural gas and oil		
,	Bt	۰ ۱/۲
130 Topping-cycle operating value = $100 * 13a / (13a + 13c + 13e)$		
	0.%	
13b Topping-cycle efficiency value = $100 * (0.5*13a + 13c + 13e) / 13f$		
Ton Topping cycle chickency value = 100 (0.5 150 1 15c 1 15c) 151	0.06	
Yes (complies with operating standard)	ith operating standard)	
13i Did installation of the facility in its current form commence on or after March 13.	1980?	
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.20 compliance with the efficiency requirement by responding to line 13k or 13l,	5(a)(2). Demonstrate as applicable, below.	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13	Ι.	
13k Compliance with efficiency standard (for low operating value): If the operating v than 15%, then indicate below whether the efficiency value shown in line 13h greater	alue shown in line 13g is le than or equal to 45%:	955
Yes (complies with efficiency standard) No (does not comply w	ith efficiency standard)	
131 Compliance with efficiency standard (for high operating value): If the operating v greater than or equal to 15%, then indicate below whether the efficiency value showr equal to 42.5%;	alue shown in line 13g is in line 13h is greater than	or

FERC Form 556

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.

The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualifying bottomingcycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below.

14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in separate rows.

Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)	
n - E Miller manna air na air ann an Ann Ann ann an Ann Ann Ann Ann A	Select thermal host's relationship to facility	Yes No No	
	Select thermal host's process type		

	which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	of increasing power production capacity? (if Yes, describe on p. 1
1)		Select thermal host's relationship to facility	Yes 🗍 No 🦳
		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No
		Select thermal host's process type	
3)		Select thermal host's relationship to facility	Yes No 🗔
		Select thermal host's process type	
	Check here and continue in t	he Miscellaneous section starting on page 19 if addi	tional space is needed

14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

FERC Form 556

Bottoming-Cycle Operating and

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Feb 27 2015

Applicants for facilities representing bottoming-cycle technology and for which installation commenced on or after March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standards. Section 292.205(b) of the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard for bottoming-cycle cogeneration facilities: the useful power output of the facility must be no less than 45 percent of the energy input of natural gas and oil for supplementary firing. To demonstrate compliance with the bottoming-cycle efficiency standard (if applicable), or to demonstrate that your facility is exempt from this standard based on the date that installation of the facility began, respond to lines 15a through 15h below.

If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).

15a Did installation of the facility in its current form commence on or after March 13, 1980?		
Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). D with the efficiency requirement by responding to lines 15b through 15h below.	emonstrate com	pliar
No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.		
15b Indicate the annual average rate of net electrical energy output		kW
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	0	Btu
15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)		hp
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	0	Btu
15f Indicate the annual average rate of supplementary energy input from natural gas or oil		Btu
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0	%
15h Compliance with efficiency standard: Indicate below whether the efficiency value show than or equal to 45%:	vn in line 15g is g	reat
Yes (complies with efficiency standard)	ciency standard)	

Feb 27 2015

Page - All Facilities

Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

Signer identified below certifies the following: (check all items and applicable subitems)

He or she has read the filing, including any information contained in any attached documents, such as cogeneration 🔀 mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.

He or she possess full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

The person on whose behalf the filing is made

An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

- An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made
- A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign

He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the \boxtimes Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the \boxtimes facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

Provide your signature, address and signature date below. Rule 2005(c) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(c)) provides that persons filing their documents electronically may use typed characters representing his or her name to sign the filed documents. A person filing this document electronically should sign (by typing his or her name) in the space provided below.

Your Signature	Your address	Date
	130 Roberts Street, Asheville NC	
Dale Freudeberger	28801	11/21/2014

Audit Notes

Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to.* You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

This filing is for re-certification due to a change in owner. Changes to address and phone number were made in items 1b, 1c, 1d, 1e, and 1g. Change of contact person was made in items 2a, 2b, and 2c. Change in effective date was made in item 11. Change in facility address, to reflect the E911 address, was made in item 3b. Minor changes in capacity were made in items 7a, 7f, 7g, and 7h. Also, the docket number is new, as noted in 1i.

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EXHIBIT F

Exhibit F is the Certificate of Public Convenience and Necessity to be provided by the Operator, or evidence that no such certificate is required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

OFFICIAL COPY

OFFICIAL COPY Feb 27 2015

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-2363, SUB 4 DOCKET NO. SP-4044, SUB 0

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. SP-2363, SUB 4)	
In the Matter of)	
Application of Carolina Solar Energy II 11 C)	
for a Certificate of Public Convenience and)	
Necessity to Construct a 4.99-MW Solar	ý	0
Array in Hertford County, North Carolina)	С
DOCKET NO. SP-4044, SUB 0)))	C N R
In the Matter of	ý	
Application of Downs Farm Solar, LLC, to)	
Transfer Certificate of Public Convenience)	
and Necessity for a 4.99-MW Solar Array in)	
Hertford County, North Carolina)	

RDER TRANSFERRING ERTIFICATE OF PUBLIC ONVENIENCE AND ECESSITY AND EGISTRATION STATEMENT

BY THE CHAIRMAN: On April 15, 2014, in Docket No. SP-2363, Sub 4, the Commission issued a certificate of public convenience and necessity (CPCN), pursuant to G.S. 62-110.1(a) to Carolina Solar Energy II, LLC (Applicant), for construction of a 4.99-MW solar photovoltaic electric generating facility to be located on Downs Farm on NC Highway 45, southeast of Pops Lane, near the town of Cofield, Hertford County, North Carolina. In addition, the Commission accepted registration of the facility as a new renewable energy facility.

On August 6, 2014, the Applicant and Downs Farm Solar, LLC (Downs Farm), filed an application with the Commission in Docket Nos. SP-2363, Sub 4 and SP-4044, Sub 0 requesting that the Commission transfer the CPCN and registration for the facility to Downs Farm.

Based upon the foregoing and the record in these dockets, the Chairman finds good cause to transfer the CPCN and registration for the facility to Downs Farm, issue a new CPCN to Downs Farm, cancel the CPCN issued to the Applicant, and close Docket No. SP-2363, Sub 4.

IT IS, THEREFORE, ORDERED as follows:

1. That the application filed by Carolina Solar Energy II, LLC and Downs Farm Solar, LLC to transfer the certificate of public convenience and necessity for construction and the registration of a 4.99-MW photovoltaic electric generating facility to be located on Downs Farm on NC Highway 45, southeast of Pops Lane, near the town of Cofield, Hertford County, North Carolina to Downs Farm Solar, LLC, shall be, and is hereby, approved.

2. That Appendix A shall constitute the amended certificate of public convenience and necessity reflecting the transfer of the facility to Downs Farm Solar, LLC.

3. That Downs Farm Solar, LLC shall annually file the information required by Commission Rule R8-66 on or before April 1 of each year.

4. That the CPCN issued to Carolina Solar Energy II, LLC in Docket No. SP-2363, Sub 4 for this solar photovoltaic facility shall be, and is hereby, cancelled.

5. That the Chief Clerk shall close Docket No. SP-2363, Sub 4.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>19th</u>, day of August, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Hail L. Mount

Gail L. Mount, Chief Clerk

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-4044, SUB 0

Downs Farm Solar, LLC 400 W. Main Street, Suite 503 Durham, North Carolina 27701

is hereby issued this

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

PURSUANT TO G.S. 62-110.1

for a 4.99-MW $_{AC}$ solar photovoltaic electric generating facility

located on

Downs Farm on NC Highway 45, southeast of Pops Lane, near the town of Cofield, Hertford County, North Carolina,

> subject to all orders, rules, regulations and conditions as are now or may hereafter be lawfully made by the North Carolina Utilities Commission.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>19th day of August</u>, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Hail L. Mount

Gail L. Mount, Chief Clerk

Feb 27 2015 OFFICIAL COPY

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-2363, SUB 4

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BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of Application of Carolina Solar Energy II, LLC, for a Certificate of Public Convenience and Necessity to Construct a 4.99-MW Solar Facility in Hertford County, North Carolina

ORDER ISSUING CERTIFICATE AND ACCEPTING REGISTRATION OF NEW RENEWABLE ENERGY FACILITY

BY THE COMMISSION: On October 18, 2013, Carolina Solar Energy II, LLC (Applicant), filed an application seeking a certificate of public convenience and necessity pursuant to G.S. 62-110.1(a) for construction of a 4.99-MW_{AC} solar photovoltaic electric generating facility to be located on Downs Farm, southeast of Pops Lane on NC 45 near the town of Cofield in Hertford County, North Carolina. The Applicant plans to sell the electricity to Dominion North Carolina Power (DNCP).

Contemporaneously with the application, the Applicant filed a registration statement for a new renewable energy facility. The registration statement included certified attestations that: (1) the facility is in substantial compliance with all federal and state laws, regulations, and rules for the protection of the environment and conservation of natural resources; (2) the facility will be operated as a new renewable energy facility; (3) the Applicant will not remarket or otherwise resell any renewable energy certificates sold to an electric power supplier to comply with G.S. 62-133.8; and (4) the Applicant will consent to the auditing of its books and records by the Public Staff insofar as those records relate to transactions with North Carolina electric power suppliers.

On October 28, 2013, the Commission issued an Order Requiring Publication of Notice, which required the Applicant to (1) publish notice of the application as required by G.S. 62-82(a) and file an affidavit of publication with the Commission, (2) mail a copy of the application and notice, no later than the first date that such notice is published, to the electric utility to which the Applicant plans to sell and distribute the electricity, and (3) file a certificate of service of such mailing to the utility. The Order also specified that if a complaint was received within 10 days after the last date of the publication of the notice, the Commission would schedule a public hearing to determine whether a certificate of public convenience and necessity should be awarded. The Order further specified that if the Commission received no complaints within the time specified above and if the Commission did not order a hearing upon its own initiative, it would enter an order awarding the certificate of public convenience and necessity.

Feb 27 2015

On December 5, 2013, the State Clearinghouse filed comments. Because of the nature of the comments, the cover letter indicated that no further State Clearinghouse review action by the Commission was required for compliance with the North Carolina Environmental Policy Act.

On January 3, 2014, the Applicant filed a certificate of service stating that the public notice and a copy of the application for a certificate of public convenience and necessity were provided to DNCP on January 2, 2014, which was after the first date that the notice was published, as Rule R8-64(c)(1) requires. The Public Staff contacted DNCP regarding this issue, and DNCP stated that the notice provide by the Applicant to the utility was sufficient so that it was not prejudiced, and it agreed to waive its right to be served with the application and public notice no later than the first date of publication of the newspaper notice.

On February 20, 2014, the Applicant filed an affidavit of publication stating that the publication of notice was completed on January 7, 2014. No complaints have been received.

The Public Staff presented this matter to the Commission at its Regular Staff Conference on April 14, 2014. The Public Staff recommended that the Commission approve the application, issue the requested certificate of public convenience and necessity, and accept the registration statement.

After careful consideration, the Commission finds good cause to approve the application and issue the attached certificate of public convenience and necessity for the proposed solar photovoltaic electric generating facility. The Commission further finds good cause, based upon the foregoing and the entire record in this proceeding, to accept registration of the facility as a new renewable energy facility. The Applicant shall annually file the information required by Commission Rule R8-66 on or before April 1 of each year and will be required to participate in the NC-RETS REC tracking system (http://www.ncrets.org) in order to facilitate the issuance of RECs.

IT IS, THEREFORE, ORDERED as follows:

1. That the application filed by Carolina Solar Energy II, LLC, for a certificate of public convenience and necessity shall be, and is hereby, approved.

2. That Appendix A shall constitute the certificate of public convenience and necessity issued to Carolina Solar Energy II, LLC, for the 4.99-MW_{AC} solar photovoltaic electric generating facility to be located on Downs Farm, southeast of Pops Lane on NC 45 near the town of Cofield in Hertford County, North Carolina.

3. That the registration statement filed by Carolina Solar Energy II, LLC, for its solar photovoltaic facility located in Hertford County, North Carolina, as a new renewable energy facility shall be, and is hereby, accepted.

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4. That Carolina Solar Energy II, LLC, shall annually file the information required by Commission Rule R8-66 on or before April 1 of each year.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>15th</u>day of April, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Hail L. Mount

Gail L. Mount, Chief Clerk

Chairman Edward S. Finley, Jr., and Commissioner Jerry C. Dockham did not participate in this decision.

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-2363, SUB 4

Carolina Solar Energy II, LLC 400 West Main Street, Suite 503 Durham, NC 27701

is hereby issued this

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY PURSUANT TO G.S. 62-110.1

for a 4.99-MW_{AC} solar photovoltaic electric generating facility

located

on Downs Farm, southeast of Pops Lane on NC 45 near the town of Cofield in Hertford County, North Carolina,

> subject to all orders, rules, regulations and conditions as are now or may hereafter be lawfully made by the North Carolina Utilities Commission.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>15th</u> day of April, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Aail L. Mount

Gail L. Mount, Chief Clerk

Feb 27 2015

Page 1 of 19

AGREEMENT FOR THE SALE OF ELECTRICAL OUTPUT TO VIRGINIA ELECTRIC AND POWER COMPANY

THIS AGREEMENT, effective this 11^{th} day of 50^{th} , 2014, (the "Effective Date") by and between VIRGINIA ELECTRIC AND POWER COMPANY, a Virginia public service company with its principal office in Richmond, Virginia, doing business in Virginia as Dominion Virginia Power, and in North Carolina as Dominion North Carolina Power, hereinafter called "Dominion North Carolina Power" or "Company", and Everetts Solar, LLC, a North Carolina limited liability company, with its principal office in Mooresville, North Carolina, hereinafter called "Operator", operator of the Everetts Solar Facility, hereinafter called the "Facility":

RECITALS

WHEREAS, the North Carolina Utilities Commission has adopted a rate schedule described in this Agreement below as <u>Schedule 19-FP</u> applicable to Qualifying Facilities (or "QF" as that term is defined in 18 C.F.R. § 292) which can provide Contracted Capacity (a) up to 5000 kW from a hydroelectric generating facility, (b) up to 5000 kW from a generating facility fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind or non-animal forms of biomass, or (c) up to 3000 kW for all other QFs; and

WHEREAS, the parties hereto wish to contract for the sale of electrical output from such a QF to be operated by Operator,

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto contract and agree with each other as follows:

Article 1: Parties' Purchase and Sale Obligations

Dominion North Carolina Power or its agent, assignee, or successor will purchase from Operator all of the electrical output (energy and Contracted Capacity) made available for sale from the Facility on an excess sale arrangement. In addition, Operator has elected to contract under the FP Method for determining the Company's avoided cost as described more fully in Exhibit C. Operator elects to operate the Facility in the Mode of Operation as specified in Section IV.C (Firm Mode of Operation) of Schedule 19-FP. The Facility is located in Dominion North Carolina Power's retail service area in Williamston, Martin County, North Carolina.

Article 2: Term and Commercial Operations Date

This Agreement shall commence on the Effective Date and shall continue in effect for a period of fifteen (15) years from the Commercial Operations Date ("COD"). The COD shall be the first date that all of the following conditions have been satisfied:

a) The Facility has been permanently constructed, synchronized with and has delivered electrical output to the

Feb 27 2015

Dominion North Carolina Power system and such action has been witnessed by an authorized Dominion North Carolina Power employee;

- After completion of item a) above, Dominion North Carolina Power has received written notice from Operator specifying the Commercial Operations Date and certifying that the Facility is ready to begin commercial operations as a Qualifying Facility;
- c) Operator and Dominion North Carolina Power (or the PJM Interconnection, LLC or other operator of the Dominion North Carolina Power transmission system, as applicable) have executed an Interconnection Agreement to be included herewith as Exhibit A;
- d) Operator has provided to Dominion North Carolina Power Qualifying Facility Certification to be included herewith as Exhibit E; and
- e) Operator either has received from the North Carolina Utilities Commission a Certificate of Public Convenience and Necessity or has filed the notice required by G.S. 62-110.1(g) and Commission Rule 8-65 and is not legally required to obtain such a certificate for the construction and operation of the Facility.

For contract terms of 10 years or more, this Agreement may be renewed at the option of Dominion North Carolina Power on substantially the same terms and conditions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration Dominion North Carolina Power's then avoided cost rates and other relevant factors or (2) set by arbitration.

Article 3: Contracted Capacity

The Facility, consisting of solar panels and five (5) inverters, will have a combined nameplate rating of approximately 5,000 kW. The Facility's Contracted Capacity shall be 5,000 kW net (alternating current or ac).

Article 4: Attachments

The following documents are attached hereto and are made a part hereof;

Exhibit A: Executed Interconnection Agreement (attached for information but not as a part of this Agreement)

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- Exhibit B: General Terms and Conditions
- Exhibit C: Schedule 19-FP, Power Purchases from Cogeneration and Small Power Production Qualifying Facilities and applicable to the QF who chooses the FP Method (effective March 28, 2014, sometimes referred to as "Schedule 19-FP" herein)
- Exhibit D: Map and related written description identifying the specific location of the Facility in the City or County designated in ARTICLE 1
- Exhibit E: "Qualifying Facility" Certification (if Facility is less than 1 MW, Owner submission that the Facility qualifies as a Qualifying Facility (QF) under federal law)
- Exhibit F: Certificate of Public Convenience and Necessity or evidence that no such certificate was required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

Article 5: Price

Payments for all energy and Contracted Capacity purchased hereunder shall be determined by the provisions for payments in Schedule 19-FP included herewith as Exhibit C and pursuant to Operator elections within such Schedule 19-FP, if any, as stated in Article 1 hereof. Payments for all energy and Contracted Capacity purchased hereunder shall be on a cents per kilowatt-hour basis.

If Operator elects the Firm Mode of Operation, then for the term of this Agreement Operator shall be paid for firm energy, in accordance with Schedule 19 – FP, effective for usage on March 28, 2014, the 15-year Fixed Long-Term Rate as provided for at Section VI.B of Schedule 19-FP. Payments for firm energy will begin on the Commercial Operations Date. All energy delivered per hour above the Contracted Capacity up to 105% of the Contracted Capacity shall be considered non-firm and be paid for at the applicable non-firm rate pursuant to Section V of Schedule 19-FP. No payment shall be made for energy delivered above 105% of the Contracted Capacity. All energy delivered prior to the Commercial Operations Date shall be considered non-firm and paid at the non-firm energy rate. In all cases, such non-firm energy rates will be those in the Schedule 19-FP in effect at the time such energy is delivered.

If Operator elects the Firm Mode of Operation, specified in Section IV.C of Schedule 19-FP, Operator shall be paid for Contracted Capacity on a cents per kilowatt-hour basis as specified in Schedule 19-FP, Section VII. Operator shall not be paid for capacity above the Contracted Capacity level in any hour during which the generation exceeds the Contracted Capacity level specified in Article 3.

Feb 27 2015

Article 6: Reserved

Article 7: Operator's Pre-COD Obligations

After execution of this Agreement and until the Commercial Operations Date, Operator shall prepare a quarterly status report for Dominion North Carolina Power showing the current progress on completing the project. This status report shall be delivered to Dominion North Carolina Power on or before the following dates each year, January 15, April 15, July 15, and October 15. Such status report shall discuss the progress of the project in a format which is acceptable to Dominion North Carolina Power.

The Facility will be considered to have commenced construction on the first day upon which all of the following have occurred: (1) the issuance by Operator to its construction contractor for the Facility of a written unconditional Notice-to-Proceed; (2) the mobilization of major construction equipment and construction facilities on the Facility site; and (3) the commencement of major structural excavation and structural concrete work relating to a major component of the Facility such as the power island consistent with having commenced a continuous process of construction relating to the Facility. Dominion North Carolina Power shall have no obligation to accept a declaration of Commercial Operations prior to May 15, 2014. The anticipated Commercial Operations Date is December 15, 2014.

Article 8: Default and Early Termination

Operator and Dominion North Carolina Power agree that any of the following will be a material breach by the Operator of this Agreement and shall result in Dominion North Carolina Power having the right to immediate cancellation, without a cure period, of this Agreement: (i) failure to commence construction of the Facility, as defined in Article 7 above, and provide Dominion North Carolina Power with written notice thereof by October 31, 2014, (ii) failure to achieve Commercial Operations Date within thirty months of February 21, 2014; provided, however, an Operator may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner, (iii) failure to provide two (2) consecutive status reports pursuant to Article 7 above, (iv) delivery or supply of electrical output to any entity other than Dominion North Carolina Power or its agent, assignee or successor, (v) failure to meet those requirements necessary to maintain Qualifying Facility status, (vi) failure at any time to have in effect a valid Interconnection Agreement with Dominion North Carolina Power (or its successor as operator of the Dominion North Carolina transmission system), (vii) failure to generate and deliver power from the Facility to Dominion North Carolina Power for more than 180 consecutive days, at any time after the Commercial Operations Date, or (viii) failure to maintain QF certification. In the event Operator fails to perform in any way, materially or non-materially, any other obligations not specifically listed above, Operator shall be given notice and thirty (30) days to cure such non-performance. Notwithstanding any cure period, Dominion North Carolina Power shall not be obligated to purchase any energy or Contract Capacity under this Agreement while any such breach remains uncured. If Operator fails to cure its non-performance within thirty (30) days of Dominion North Carolina Power's notice, Dominion North Carolina Power shall have the right to cancel this Agreement. Operator agrees that if this Agreement is canceled by Dominion North Carolina Power for Operator's non-performance prior to the end of the initial term of this Agreement, then, Dominion North Carolina Power shall have all rights and remedies available at law or in equity.

Article 9: Representations and Warranties

Operator represents and warrants that it has the right to operate the Facility in accordance with the terms of this Agreement. Operator further represents and warrants that all permits, approvals, and/or licenses necessary for the operation of the Facility will be obtained prior to the Commercial Operations Date and shall be maintained throughout the Term of this Agreement. Operator shall, provide such documentation and evidence of such right, permits, approvals and/or licenses as Dominion North Carolina Power may reasonably request, including without limitation air permits, leases and/or purchase agreements.

Article 10: Notices and Payments

All correspondence and payments concerning this Agreement shall be to the addresses below. Either Party may change the address by providing written notice to the other Party.

OPERATOR:DOMINION NORTH CAROLINA POWER:Everetts Solar, LLCVirginia Electric and Power Company
Power Contracts (3SE)192 Raceway Drive5000 Dominion Boulevard
Glen Allen, Virginia 23060-6711

Article 11: Integration of Entirety of Agreement

This Agreement is intended by the Parties as the final expression of their Agreement and is intended also as a complete and exclusive statement of the terms of their Agreement with respect to the purchase and sale of electrical output generated by the Facility. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are hereby abrogated and withdrawn. EVERETTS SOLAR, LLC

Affath

By: Kenny Habul

Title: Managing Member

Date: <u>6/11/14</u>

VIRGINIA ELECTRIC AND POWER COMPANY

By:

Title: AUTHORIZED REPASEMENTIVE

Date:

EXHIBIT A GENERATOR INTERCONNECTION GUIDANCE AND AGREEMENT

Dominion North Carolina Power's procedures for generator interconnection are available through the Internet at the Company's website with draft interconnection agreements for non-FERC jurisdictional generators (as approved by the NCUC included as Attachments 1, 2 and 3 thereto). For FERC jurisdictional generators interconnection shall be in accordance with FERC and PJM requirements.

The specific Internet address for these procedures is <u>https://www.dom.com/dominion-north-carolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf</u>. The Internet site contains links to the Generator Interconnection Procedures along with the Generator Interconnection Request Form. Once an Interconnection Agreement is executed it will be included herewith as part of this Exhibit A.

EXHIBIT B General Terms and Conditions

I - Assignments

Operator agrees not to assign this Agreement without the prior written consent of Dominion North Carolina Power. Dominion North Carolina Power may withhold such consent if it determines, in its sole discretion, that such assignment would not be in the best interests of Dominion North Carolina Power or its customers. Any attempted assignment that Dominion North Carolina Power has not approved in writing shall be null and void and ineffective for all purposes. In the event of assignment by Operator, Operator shall pay Company within thirty (30) days of the effective date of the assignment an amount equal to the actual costs incurred by Company in connection with such assignment up to a maximum amount of \$10,000 per assignment; provided, however, assignment of this Agreement by Operator in connection with an initial financing arrangement which is finalized and for which consent of Company is requested within nine months of the Effective Date of this Agreement shall not be subject to the payment requirement provided herein.

II - Indemnity

Operator shall indemnify and save harmless and, if requested by Dominion North Carolina Power, defend Dominion North Carolina Power, its officers, directors and employees from and against any and all losses and claims or demands for damages to real property or tangible personal property (including the property of Dominion North Carolina Power) and injury or death to persons arising out of, resulting from, or in any manner caused by the presence, operation or maintenance of any part of Operator's Facility; provided, however, that nothing herein shall be construed as requiring Operator to indemnify Dominion North Carolina Power for any injuries, deaths or damages caused by the sole negligence of Dominion North Carolina Power. Operator agrees to provide Dominion North Carolina Power written evidence of liability insurance coverage, which is specifically and solely for the Facility, prior to the operation of the Facility. Operator agrees to have Dominion North Carolina Power named as an additional insured, and shall keep such coverage current throughout the term of this Agreement.

III - QF Certification

Operator represents and warrants that its Facility meets the Qualifying Facility requirements established as of the Effective Date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations Part 292), and that it will continue to meet those requirements necessary to remain a Qualifying Facility throughout the term of this Agreement. [Dominion North Carolina Power may require "FERC" QF Certification by adding the following: "Operator agrees to obtain, at Operator's expense, a certification as a "QF" from the Federal Energy Regulatory Commission, in accordance with 18 C.F.R. § 292.207 (b)."] Operator agrees to provide copies, at the time of submittal, of all correspondence and filings with the Federal Energy Regulatory Commission relating to obtaining certification of the

Facility as a "QF". Operator will submit prior to delivery of electrical output from the Facility to Dominion North Carolina Power evidence of Qualifying Facility certification. After the Commercial Operations Date, if requested by Dominion North Carolina Power prior to March 1 of any year, Operator agrees to provide July 1 of the same year to Dominion North Carolina Power for the preceding year sufficient for Dominion North Carolina Power to determine the Operator's continuing compliance with its QF requirements, including but not limited to:

(a) All information required by FERC Form 556.

(b) Copy of the Facility's QF Certification and any subsequent revisions or amendments,

(c) Provide a copy of any contract executed with a thermal host.

(d) Identification of the amount of each type of fuel used per month and average heating value for each type of fuel, which will be used to determine the Total Energy Input. These values should be verifiable by auditing supporting documentation.

(e) Identification of each of the QF's useful thermal output(s) for each month, including temperature, pressure, amount of thermal output delivered, temperature and amount of condensate returned (if applicable) and the conversion to Btus. These values should be verifiable by auditing supporting documentation.

(f) Identification of the QF's useful power output for each month. These values should be verifiable by auditing supporting documentation.

(g) Provide drawings, heat balance diagrams and a sufficiently detailed narrative describing the delivery of useful thermal output including the location, description, and calibration data for all metering equipment used for QF calculations.

(h) Provide any other information which the QF believes will facilitate Dominion North Carolina Power's monitoring of the QF requirements.

(i) Dominion North Carolina Power may request additional information, as needed, to monitor the QF requirements.

IV - Consequential Damages

In no event shall either Party be liable to the other for any special, indirect, incidental or consequential damages whatsoever, except that the foregoing shall not apply to any promises of indemnity or obligations to reimburse the Parties expressly set forth in this Agreement.

V - Amendments, Waivers, Severability and Headings

This Agreement, including the appendices thereto, can be amended only by agreement between the Parties in writing. The failure of either Party to insist in any one or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provisions or the relinquishment of any such right or any other right hereunder. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the Parties shall be deemed to be reduced only as much as may be required to remove the impediment. The headings contained in this Agreement are used solely for convenience and do not constitute a part of the Agreement between the Parties hereto, nor should they be used to aid in any manner in the construction of this Agreement.

VI - Compliance with Laws

Operator covenants that it shall comply with all applicable provisions of Executive Order 11246, as amended; § 503 of the Rehabilitation Act of 1973, as amended; § 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; and implementing regulations set forth in 41 C.F.R. §§ 60.1, 60-250, and 60-741 and the applicable provisions relating to the utilization of small minority business concerns as set forth in 15 U.S.C. § 637, as amended. Operator agrees that the equal opportunity clause set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 250.5 and 41 C.F.R. 60-§741.5 and the clauses relating to the utilization of small and minority business concerns set forth in 15 U.S.C. § 637(d)(3) and 48 C.F.R. § 52-219.9 are hereby incorporated by reference and made a part of this Agreement. If this Agreement has a value of more than \$500,000, Operator shall adopt and comply with a small business and small disadvantaged business subcontracting plan which shall conform to the requirements set forth in 15 U.S.C. § 637(d)(6). The provisions of this section shall apply to Operator only to the extent that:

(a) such provisions are required of Operator under existing law,

(b) Operator is not otherwise exempt from said provisions and

(c) Compliance with said provisions is consistent with and not violative of 42 U.S.C. § 2000 et seq., 42 U.S.C. § 1981 et seq., or other acts of Congress.

VII - Interconnection and Operation

Operator shall be responsible for the design, installation, and operation of its Facility. Operator shall be responsible for obtaining an Interconnection Agreement. Interconnection guidelines and agreement requirements are set forth in Exhibit A of this Agreement.

Operator shall: (a) maintain the Facility and the Interconnection Facilities on Operator's side of the Interconnection Point, except Dominion North Carolina Power-owned Interconnection Facilities, in conformance with all applicable laws and regulations and in accordance with operating procedures; (b) obtain any governmental authorizations and permits

required for the construction and operation thereof and keep all such permits and authorizations current and in effect; and (c) manage the Facility in a safe and prudent manner. If at any time Operator does not hold such authorizations and permits, Dominion North Carolina Power may refuse to accept deliveries of power hereunder.

Dominion North Carolina Power may enter Operator's premises (a) to inspect Operator's protective devices at any reasonable time; (b) to read or test meters and metering equipment; and (c) to disconnect, without notice, the Facility if, in Dominion North Carolina Power's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or Dominion North Carolina Power facilities or other customers' facilities from damage or interference caused by Operator's Facility or lack of properly operating protective devices. Dominion North Carolina Power will endeavor to notify Operator as quickly as practicable if disconnection occurs as provided in (c) above. Any inspection of Operator's protective devices shall not impose on Dominion North Carolina Power any liabilities with respect to the operation, safety or maintenance of such devices.

Operator shall not operate the Facility in parallel with Dominion North Carolina Power's system prior to (a) an inspection of the installed Interconnection Facilities by an authorized Dominion North Carolina Power representative and (b) receiving written authorization from an authorized Dominion North Carolina Power representative to begin parallel operation.

VIII - Metering

Dominion North Carolina Power will meter all electrical output delivered from the Facility on the high voltage side of the step up transformer.

Operator agrees to pay an administrative charge to Dominion North Carolina Power to reflect all reasonable costs incurred by Dominion North Carolina Power for meter reading and billing, also referred to as metering charges. The monthly meter reading and billing charge shall change from time to time when the NCUC approves a different charge in Schedule 19-FP.

In addition, Operator agrees to pay any fees required to provide and maintain leased telephone lines required for meter reading by Dominion North Carolina Power.

IX - Billing and Payment

Dominion North Carolina Power shall read the meter in accordance with its normal meter reading schedule. Within twenty-eight (28) days thereafter, Dominion North Carolina Power shall send Operator payment for energy and Contracted Capacity delivered. At Dominion North Carolina Power's option, (i) Dominion North Carolina Power may make such payments net of the monthly metering charges, Interconnection Facilities charges, and charges for sales of electricity to the Operator, or (ii) Dominion North Carolina Power may invoice Operator for such charges separately. Payment by Dominion North Carolina Power shall include verification showing the billing month's ending meter reading, on-peak and off-peak kWh, and the amount paid. If in any month the monthly metering and Interconnection Facilities charges are in excess of any payments due Operator, Dominion North Carolina Power shall bill Operator for the

Page 12 of 19

difference and Operator shall make such payment within 28 days of the invoice date. Failure by Operator to make such payments may result in disconnection of the Facility. In no event shall such disconnection relieve Operator of its obligation to pay monthly metering charges and Interconnection Facilities charges under this Agreement.

In the event that any data required for billing purposes hereunder are unavailable when required for such billing, the unavailable data shall be estimated by Dominion North Carolina Power, based upon historical data. Such billing shall be subject to any required adjustment in a subsequent billing month.

Operator agrees that Dominion North Carolina Power shall be entitled to withhold sufficient amounts due pursuant to this Agreement to offset (a) any damages to Dominion North Carolina Power resulting from any breach of this Agreement by Operator, and (b) any other amounts Operator owes Dominion North Carolina Power, including amounts arising from sales of electricity by Dominion North Carolina Power to Operator, metering charges and Interconnection Facilities charges.

In no event shall Dominion North Carolina Power be liable to Operator for any Contracted Capacity payments in excess of the amounts contracted for herein, regardless of the ultimate length of this Agreement or revisions to Schedule 19-FP or successor schedules. Operator hereby agrees to accept the Contracted Capacity payments as set forth herein as its sole and complete compensation for delivery of Contracted Capacity to Dominion North Carolina Power.

X - Force Majeure

Neither Party shall be considered in default under this Agreement or responsible to the other Party in tort, strict liability, contract or other legal theory for damages of any description for any interruption or failure of service or deficiency in the quality or quantity of service or any other failure to perform any of its obligations hereunder to the extent such failure occurs without fault or negligence on the part of that Party and is caused by factors beyond that Party's reasonable control, which by the exercise of reasonable diligence that Party is unable to prevent, avoid, mitigate or overcome, including without limitation storm, flood, lightning, earthquake, explosion, equipment failure, civil disturbance, labor dispute, act of God or public enemy, action or inaction of a court or public authority, fire, sabotage, war, explosion, curtailments, unscheduled withdrawal of facilities from operation for maintenance or repair or any other cause of similar nature beyond the reasonable control of that Party (any such event, "Force Majeure"). Solely economic hardship of either Party shall not constitute Force Majeure under this Agreement. Nor shall anything contained in this paragraph or elsewhere in this Agreement excuse Operator or Dominion North Carolina Power from strict compliance with the obligation of the Parties to comply with the terms of Article IX of this Exhibit B relating to timely payments.

Page 13 of 19

Each Party shall have the obligation to operate in accordance with Good Utility Practice (as defined below) at all times and to use due diligence to overcome and remove any cause of failure to perform.

If a Party relies on the occurrence of an event of Force Majeure described above as a basis for being excused from performance of its obligations under this Agreement, then the Party relying on the Force Majeure event shall:

a) Provide within forty-eight (48) hours written notice of such Force Majeure event or potential Force Majeure to the other Party, giving an estimate of its expected duration and the probable impact on the performance of its obligations hereunder;

b) Exercise all reasonable efforts to continue to perform its obligations under this Agreement;

c) Expeditiously take action to correct or cure the Force Majeure event excusing performance; provided, however, that settlement of strikes or other labor disputes will be completely within the sole discretion of the Party affected by such strike or labor dispute;

d) Exercise all reasonable efforts to mitigate or limit damages to the other Party; and

e) Provide prompt notice to the other Party of the cessation of the Force Majeure event giving rise to its excuse from performance. All performance obligations hereunder shall be extended by a period equal to the term of the resultant delay.

If a Party responding to a Force Majeure event has the ability to obtain, for additional expenditures, expedited material deliveries or labor production which would allow a response to the event in a manner that is above and beyond Good Utility Practice, and such a response could shorten the duration of the Force Majeure event, the Party responding to the event may, at its discretion, present the other Party with the option of funding the expenditures for expediting material deliveries or labor production in an effort to reduce the duration of the event and economic hardship. Each such opportunity will be negotiated on a case-by-case basis by the Parties.

For purposes of this Agreement, "Good Utility Practice" shall mean any of the applicable practices, methods, standards, guides or acts: required by any governmental authority, regional or national reliability council, or national trade organization, including NERC, SERC, or the successor of any of them, as they may be amended from time to time whether or not the Party whose conduct is at issue is a member thereof; otherwise engaged in or approved by a significant portion of the electric utility industry during the relevant time period which in the exercise of reasonable judgment in light of the facts known or that should have been known at the time a decision was made, could have been expected to accomplish the desired result in a manner consistent with law, regulation, good business practices, generation, transmission and distribution reliability, safety, environmental protection, economy and expediency. Good Utility Practice is intended to be acceptable practices, methods, or acts generally accepted in the region,

Feb 27 2015

Page 14 of 19

or any other acts or practices as are reasonably necessary to maintain the reliability of the Transmission System (as defined in the Interconnection Agreement), or of the Facility, and is not intended to be limited to the optimum practices, methods, or acts to the exclusion of all others.

Page 15 of 19

EXHIBIT C

Exhibit C is a copy of Schedule 19-FP.

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Exhibit DNCP-4

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

I. APPLICABILITY AND AVAILABILITY

This schedule is applicable to any qualifying Cogenerator or Small Power Producer (Qualifying Facility) which desires to deliver all of its net electrical output to the Company, and which has either (1) generating facilities designated as new capacity as defined by 18 C.F.R. 292.304(b)(1), or (2) hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a) and enters into an agreement for the sale of net electrical output to the Company (Agreement).

Where the Qualifying Facility (QF) elects to be compensated for firm deliveries in accordance with this schedule, the amount of capacity under contract and the initial term of contract shall be limited as follows:

A. Where the QF operates hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), or where the QF operates non-hydroelectric QFs fueled. by trash or methane derived from landfills, hog waste, poultry waste, solar, wind, and non-animal forms of biomass, the amount of capacity subject to compensation shall be no greater than 5,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 5,000 kWh. The initial term of contract for such a QF shall be for a period of 5, 10, or 15 years, at the option of the QF.

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Where the QF is not defined under Paragraph I.A., the amount of capacity subject to compensation shall be no greater than 3,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 3,000 kWh. The initial term of contract for such a QF shall be for a period of 5 years.

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Docket No. E-100, Sub 136
Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

I.

APPLICABILITY AND AVAILABILITY (Continued)

Where the QF elects to be compensated for firm or non-firm deliveries in accordance with this schedule, the QF must enter into a contract and begin deliveries to the Company no earlier than January 1, 2013 and no later than December 31, 2014. Where the QF elects an initial contract term of 10 or more years, such contract may be renewed for subsequent term(s), at the Company's option, based on substantially the same terms and provisions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration the Company's then avoided cost rates and other relevant factors or (2) set by arbitration.

This schedule is not applicable to a QF owned by a developer, or affiliate of a developer, who sells power to the Company from another facility located within one-half mile unless: 1) each facility provides thermal energy to different, unaffiliated hosts, or 2) each facility provides thermal energy to the same host, and the host has multiple operations with distinctly different or separate thermal needs, or 3) each facility utilizes a renewable resource which may be subject to geographic siting limitations, such as hydroelectric, solar, or wind power facilities.

II. MONTHLY BILLING TO THE QF

All sales to the QF will be in accordance with any applicable filed rate schedule. In addition, where the QF contracts for sales to the Company, the QF will be billed a monthly charge equal to one of the following to cover the cost of meter reading and processing:

Metering required		Charge
One non-time-differentiated meter		\$17.24.
One time-differentiated meter		\$35,55
Two time-differentiated meters	·	\$41.16

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Docket No. E-100, Sub 136

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

III. DEFINITION OF ON- AND OFF-PEAK HOURS

A. On-Peak Hours

Summer

- For the periods beginning at 12:00 midnight March 31 and ending at 12:00 midnight September 30:
 - The on-peak hours are defined as the hours between 10:00 am and 10:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

- For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight March 31:
 - The on-peak hours are defined as those hours between 6:00 am and 1:00 pm., plus 4:00 p.m. through 9:00 p.m., Monday through Friday, excluding holidays considered as off-peak.

Off-Peak Hours:

• •• • •

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The off-peak hours in any month are defined as all hours not specified above as on-peak hours. All hours for the following holidays will be considered as offpeak: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

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For Usage On and After 01-01-13.

Docket No. E-100, Sub 136

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IV. CONTRACT OPTIONS FOR DESIGNATING MODE OF OPERATION

The QF shall designate under contract its Mode of Operation from the following options, each of which determines the Company's method of payment.

- A. The QF may contract for the delivery of energy to the Company without reimbursement, designated as the Non-reimbursement Mode of Operation; or,
- B. The QF may contract for the delivery of non-firm energy to the Company (no payment for capacity). This option includes QFs that elect to contract to deliver non-firm energy to the Company on an as-available basis. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less the QF may designate the Non-firm, Non-time-differentiated Mode of Operation. Regardless of nameplate rating the QF may designate the Non-firm, Time-differentiated Mode of Operation.
 - The QF may contract for the delivery of firm energy and capacity to the Company. The level of capacity which the QF contracts to sell to the Company shall not exceed 5,000 kW, where the QF is defined under Paragraph I.A., or 3,000 kW otherwise. This capacity level, in kW, shall be referred to as the Contracted Capacity. When the QF elects to sell firm energy and capacity, the QF shall designate the Firm Mode of Operation.

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY.

The QF may contract to receive payment for energy at rates to be determined with each revision of this schedule. These rates will be based upon the QF's Mode of Operation as described below. There are no capacity payments for the QFs that contract for non-firm energy.

A. Non-reimbursement Mode of Operation. Where the QF designates the Non-Reimbursement Mode of Operation, no payment will be made for energy delivered.

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C.

For Usage On and After 01-01-13.

Docket No. E-100, Sub 136

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY (continued)

B. Non-time-differentiated Mode of Operation. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less and the QF designates the Non-Firm, Non-time-differentiated Mode of Operation, the following rates in cents per kWh are applicable:

3.843

C. Time-differentiated Mode of Operation. Where the QF designates the Timedifferentiated Mode of Operation, the following On- and Off-peak rates in cents per kWh are applicable:

On-peak	4.541
Off-peak	3.455

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except that upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

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Docket No. E-100, Sub 136

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY

QFs designating the Firm Mode of Operation will be eligible to receive purchase payments for the delivery of firm energy by the QF to the Company. The QF may contract to receive payments for firm energy based on A. or B., below. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

A. The QF may contract to receive payment for firm time-differentiated energy at rates to be determined with each revision of this schedule. These rates in cents per kWh, which reflect the Company's estimated avoided energy cost for delivery of firm energy during 2013 or 2014, are as follows:

On-peak	4.541
Off-peak	3.455

В.

The QF may contract to receive energy purchase payments for the delivery of firm energy based upon long-term fixed prices, as shown below in cents per kWh:

	Energy Prices		
	5-Year	·10-Year	15-Year
On-Peak (¢/kWh)	5,055**	5.526	5.813
Off-Peak (¢/kWh)	3.964	4.388	4.661

Any energy delivered above 100% up to 105% of QF's Contracted Capacity in any hour will be purchased at the then applicable non-firm energy rates under Schedule 19-FP. There will be no reimbursement for any energy delivered above 105% of QF's Contracted Capacity.

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

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Docket No. E-100, Sub 136

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY

Company purchases of capacity are applicable only where the QF elects the Firm Mode of Operation. Capacity payments are applicable during on-peak hours only. Such QFs shall receive capacity purchase payments based on the applicable levelized capacity purchase price below, in cents per kWh, corresponding to the contract length in years. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

For hydroelectric facilities with no storage capability and no other type of generation:

Capacity Price		rice	
	'		
	<u>5-Year</u> <u>10-Year</u>	<u>15-Year</u>	
On-Peak kWh (¢/kWh) Summer	5,895 6.095	6,263	•
On-Peak kWh (¢/kWh) Non-summer	3.930 4.063	4.175	

For all other facilities:

· · ·	- Capacity Price		•	
	<u>5-Year</u>	<u>10-Year</u>	<u>15-Year</u>	,
On-Peak KWh (¢/kWh) Summer	3.537	3.657	3.758 <u>;</u>	
On-Peak kWh (¢/kWh) Non-summer	2.358	2.438	2.505	

Payments will be made to the QF by applying the appropriate levelized capacity purchase price above to all kWh delivered to the Company during each on-peak hour, up to the 100% of the Contracted Capacity in such hour. There will be no compensation for capacity in excess of the QF's Contracted Capacity in an hour. This capacity price will be in accordance with the length of rate term for capacity sales so established in the contract.

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Docket No. E-100, Sub 136

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Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VIII. PROVISIONS FOR COMPANY PURCHASE OF THE QF GENERATION

A. The QF shall own and be fully responsible for the costs and performance of the QF's:

1. Generating facility in accordance with all applicable laws and governmental agencies having jurisdiction;

- 2. Control and protective devices as required by the Company on the QF's side of the meter.
- B. The sale of power to the Company by a QF at avoided cost rates pursuant to this Schedule 19-DRR does not convey ownership to the Company of the renewable energy credits or green tags associated with the QF facility.
- C. Upon request by the Company, the Cogenerator or Small Power Producer must demonstrate that the facility is a Qualifying Facility as defined by PURPA.
- D. Interconnection procedures for the QF's generation interconnection are provided through the Internet at the Company's website; <u>http://www.dom.com/dominion-north-carolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf</u>

IX. MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER

The provisions of this schedule, including the rates for purchase of energy and Contracted Capacity by the Company, are subject to modification at any time in the manner prescribed by law, and when so modified, shall supersede the rates and provisions hereof. However, payments to QFs with contracts for a specified term at payments established at the time the obligation is incurred shall remain at the payment levels established in their contract with the exception of the line loss percentage applied which shall be the percentage stated in the then-current Schedule 19.

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Docket No. E-100, Sub 136

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IX, MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER (continued)

If the QF terminates its contract to provide Contracted Capacity and energy to the Company prior to the expiration of the contract term, the QF shall, in addition to other liabilities, be liable to the Company for excess capacity and energy payments. Such excess payments will be calculated by taking the difference between (1) the total capacity and energy payments already made by the Company to the QF and (2) capacity and energy payments calculated based on the levelized capacity and energy purchase price found in Paragraph VI and VII corresponding to the highest term option completed by the QF. These excess payments shall also include interest, from the time such excess payments were made, compounded annually at the rate equal to the Company's most current issue of long-term debt at the time of the contract's effective date.

TERM OF CONTRACT Х.

· · · · The term of contract shall be such as may be mutually agreed upon but for not less than one year.

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Docket No. E-100, Sub 136

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Feb 27 2015

EXHIBIT D

Exhibit D is a map and written description identifying the specific location of the Facility and is provided by the Operator.

Feb 27 2015

EXHIBIT E

Exhibit E is the "Qualifying Facility" Certification to be provided by the Operator.

OR

If Facility is less than 1MW, Owner may submit the following statement as Exhibit E that the Facility qualifies as a Qualifying Facility (QF) under federal law.

Federal law exempts small power production or cogeneration facilities with net power production capacities of 1 MW or less from certain certification requirements in order to qualify as a qualifying facility ("QF" or "Qualifying Facility"). Therefore, [QF Name Here] submits the Facility is exempt from the certification requirements, but submits that the Facility qualifies as a Qualifying Facility under federal law set forth in the Public Utility Regulatory Policies Act of 1978 ("PURPA") (codified at 16 U.S.C. § 824a-3).

Name

Title

EXHIBIT F

Exhibit F is the Certificate of Public Convenience and Necessity to be provided by the Operator_a or evidence that no such certificate is required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

AGREEMENT FOR THE SALE **OF ELECTRICAL OUTPUT TO** VIRGINIA ELECTRIC AND POWER COMPANY

THIS AGREEMENT, effective this 25^{th} day of <u>Nov</u>, 2014, (the "Effective Date") by and between VIRGINIA ELECTRIC AND POWER COMPANY, a Virginia public service company with its principal office in Richmond, Virginia, doing business in Virginia as Dominion Virginia Power, and in North Carolina as Dominion North Carolina Power, hereinafter called "Dominion North Carolina Power" or "Company", and SoINCPower2, LLC, a North Carolina Limited Liability Company, with its principal office in Asheville, North Carolina, hereinafter called "Operator", operator of the GKS solar facility, hereinafter called the "Facility":

RECITALS

WHEREAS, the North Carolina Utilities Commission has adopted a rate schedule described in this Agreement below as Schedule 19-FP applicable to Qualifying Facilities (or "QF" as that term is defined in 18 C.F.R. § 292) which can provide Contracted Capacity (a) up to 5000 kW from a hydroelectric generating facility, (b) up to 5000 kW from a generating facility fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind or nonanimal forms of biomass, or (c) up to 3000 kW for all other QFs; and

WHEREAS, the parties hereto wish to contract for the sale of electrical output from such a QF to be operated by Operator,

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties hereto contract and agree with each other as follows:

Article 1: Parties' Purchase and Sale Obligations

Dominion North Carolina Power or its agent, assignee, or successor will purchase from Operator all of the electrical output (energy and Contracted Capacity) made available for sale from the Facility on a simultaneous purchase and sale arrangement. In addition, Operator has elected to contract under the FP Method for determining the Company's avoided cost as described more fully in Exhibit C. Operator elects to operate the Facility in the Mode of Operation as specified in Section IV.C Firm Mode of Operation of Schedule 19-FP. The Facility is located in Dominion North Carolina Power's retail service area in Belvidere, Perquimans County, North Carolina.

Page 2 of 19

Article 2: Term and Commercial Operations Date

This Agreement shall commence on the Effective Date and shall continue in effect for a period of 15 years from the Commercial Operations Date ("COD"). The COD shall be the first date that all of the following conditions have been satisfied:

- a) The Facility has been permanently constructed, synchronized with and has delivered electrical output to the Dominion North Carolina Power system and such action has been witnessed by an authorized Dominion North Carolina Power employee;
- b) After completion of item a) above, Dominion North Carolina Power has received written notice from Operator specifying the Commercial Operations Date and certifying that the Facility is ready to begin commercial operations as a Qualifying Facility;
- c) Operator and Dominion North Carolina Power (or the PJM Interconnection, LLC or other operator of the Dominion North Carolina Power transmission system, as applicable) have executed an Interconnection Agreement to be included herewith as Exhibit A;
- d) Operator has provided to Dominion North Carolina Power Qualifying Facility Certification to be included herewith as Exhibit E; and
- e) Operator either has received from the North Carolina Utilities Commission a Certificate of Public Convenience and Necessity or has filed the notice required by G.S. 62-110.1(g) and Commission Rule 8-65 and is not legally required to obtain such a certificate for the construction and operation of the Facility.

For contract terms of 10 years or more, this Agreement may be renewed at the option of Dominion North Carolina Power on substantially the same terms and conditions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration Dominion North Carolina Power's then avoided cost rates and other relevant factors or (2) set by arbitration.

Article 3: Contracted Capacity

The Facility, consisting of Solar panels will have a combined nameplate rating of approximately 6,500 kW dc. The Facility's Contracted Capacity shall be 5,000 kW net to Company (alternating current or ac).

Article 4: Attachments

The following documents are attached hereto and are made a part hereof:

- Exhibit A: Executed Interconnection Agreement (attached for information but not as a part of this Agreement)
- Exhibit B: General Terms and Conditions
- Exhibit C: Schedule 19-FP, Power Purchases from Cogeneration and Small Power Production Qualifying Facilities and applicable to the QF who chooses the FP Method (effective March 28, 2014, sometimes referred to as "Schedule 19-FP" herein)
- Exhibit D: Map and related written description identifying the specific location of the Facility in the City or County designated in ARTICLE 1
- Exhibit E: "Qualifying Facility" Certification (if Facility is less than 1 MW, Owner submission that the Facility qualifies as a Qualifying Facility (QF) under federal law)
- Exhibit F: Certificate of Public Convenience and Necessity or evidence that no such certificate was required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

Article 5: Price

Payments for all energy and Contracted Capacity purchased hereunder shall be determined by the provisions for payments in Schedule 19-FP included herewith as Exhibit C and pursuant to Operator elections within such Schedule 19-FP, if any, as stated in Article 1 hereof. Payments for all energy and Contracted Capacity purchased hereunder shall be on a cents per kilowatt-hour basis.

Feb 27 2015

If Operator elects the Firm Mode of Operation, then for the term of this Agreement Operator shall be paid for firm energy, in accordance with Schedule 19 - FP, effective for usage on March 28, 2014, the 15-year Fixed Long-Term Rate as provided for at Section VI.B of Schedule 19-FP. Payments for firm energy will begin on the Commercial Operations Date. All energy delivered per hour above the Contracted Capacity up to 105% of the Contracted Capacity shall be considered non-firm and be paid for at the applicable non-firm rate pursuant to Section V of Schedule 19-FP. No payment shall be made for energy delivered above 105% of the Contracted Capacity. All energy delivered prior to the Commercial Operations Date shall be considered non-firm and paid at the non-firm energy rate. In all cases, such non-firm energy rates will be those in the Schedule 19-FP in effect at the time such energy is delivered.

If Operator elects the Firm Mode of Operation, specified in Section IV.C of Schedule 19-FP, Operator shall be paid for Contracted Capacity on a cents per kilowatt-hour basis as specified in Schedule 19-FP, Section VII. Note: Operator acknowledges that it has been notified of a typographical error in the hours indicated for capacity payments in the current capacity payment tables under Section VII of the NC Schedule 19 - FP tariff; Operator further acknowledges that, under Schedule 19-FP, capacity payments are not paid for any off-peak periods, and that capacity payments are paid only for on-peak periods as stated in the opening paragraph of Section VII of Schedule 19 - FP. Specifically, Operator acknowledges that the rates for capacity provided in Section VII of Schedule 19-FP apply only to on-peak summer hours and to on-peak non-summer hours, as those on-peak hours are defined at Section III of Schedule 19-FP. Operator shall not be paid for capacity above the Contracted Capacity level in any hour during which the generation exceeds the Contracted Capacity level specified in Article 3.

Article 6: Reserved

Article 7: Operator's Pre-COD Obligations

After execution of this Agreement and until the Commercial Operations Date, Operator shall prepare a quarterly status report for Dominion North Carolina Power showing the current progress on completing the project. This status report shall be delivered to Dominion North Carolina Power on or before the following dates each year, January 15, April 15, July 15, and October 15. Such status report shall discuss the progress of the project in a format which is acceptable to Dominion North Carolina Power.

The Facility will be considered to have commenced construction on the first day upon which all of the following have occurred: (1) the issuance by Operator to its construction contractor for the Facility of a written unconditional Notice-to-Proceed; (2) the mobilization of major construction equipment and construction facilities on the Facility site; and (3) the commencement of major structural excavation and structural concrete work relating to a major component of the Facility such as the power island consistent with having commenced a continuous process of construction relating to the Facility. Dominion North Carolina Power shall have no obligation to accept a declaration of Commercial Operations Date prior to March 1, 2015. The anticipated Commercial Operations Date is April 2015.

Feb 27 2015

Article 8: Default and Early Termination

Operator and Dominion North Carolina Power agree that any of the following will be a material breach by the Operator of this Agreement and shall result in Dominion North Carolina Power having the right to immediate cancellation, without a cure period, of this Agreement: (i) failure to commence construction of the Facility, as defined in Article 7 above, by April 1, 2015 and provide Dominion North Carolina Power with written notice thereof, (ii) failure to achieve Commercial Operations Date within thirty months of February 21, 2014; provided, however, an Operator may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner, (iii) failure to provide two (2) consecutive status reports pursuant to Article 7 above, (iv) delivery or supply of electrical output to any entity other than Dominion North Carolina Power or its agent, assignee or successor, (v) failure to meet those requirements necessary to maintain Oualifying Facility status, (vi) failure at any time following COD to have in effect a valid Interconnection Agreement with Dominion North Carolina Power (or its successor as operator of the Dominion North Carolina transmission system), (vii) failure to generate and deliver power from the Facility to Dominion North Carolina Power for more than 180 consecutive days, at any time after the Commercial Operations Date, or (viii) failure to maintain QF certification. In the event Operator fails to perform in any way, materially or non-materially, any other obligations not specifically listed above, Operator shall be given notice and thirty (30) days to cure such non-performance. Notwithstanding any cure period, Dominion North Carolina Power shall not be obligated to purchase any energy or Contract Capacity under this Agreement while any such breach remains uncured. If Operator fails to cure its non-performance within thirty (30) days of Dominion North Carolina Power's notice, Dominion North Carolina Power shall have the right to cancel this Agreement. Operator agrees that if this Agreement is canceled by Dominion North Carolina Power for Operator's non-performance prior to the end of the initial term of this Agreement, then, Dominion North Carolina Power shall have all rights and remedies available at law or in equity.

Article 9: Representations and Warranties

Operator represents and warrants that it has the right to operate the Facility in accordance with the terms of this Agreement. Operator further represents and warrants that all permits, approvals, and/or licenses necessary for the operation of the Facility will be obtained prior to the Commercial Operations Date and shall be maintained throughout the Term of this Agreement. Operator shall, provide such documentation and evidence of such right, permits, approvals and/or licenses as Dominion North Carolina Power may reasonably request, including without limitation air permits, leases and/or purchase agreements.

Article 10: Notices and Payments

All correspondence and payments concerning this Agreement shall be to the addresses below. Either Party may change the address by providing written notice to the other Party.

OPERATOR:

DOMINION NORTH CAROLINA POWER:

SoINCPower2, LLC C/o FLS Energy Inc. 130 Roberts Street Asheville, NC 28801 Virginia Electric and Power Company Power Contracts (3SE) 5000 Dominion Boulevard Glen Allen, Virginia 23060-6711

Article 11: Integration of Entirety of Agreement

This Agreement is intended by the Parties as the final expression of their Agreement and is intended also as a complete and exclusive statement of the terms of their Agreement with respect to the purchase and sale of electrical output generated by the Facility. All prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement are hereby abrogated and withdrawn.

IN WITNESS WHEREOF, the Parties hereto have caused their names to appear below, signed by authorized representatives as of the date first shown above.

(Operator) SolNCPower2, LLC By: FLS 2014 B Manager, LLC, its Manager FLS Energy, Inc., it Manager By: Title: Dale Freudenberger, CEO

Date:

VIRGINIA ELECTRIC AND POWER COMPANY By: Title: Dir-Pwr Gark 4 Ops Date: 11/25/2014

Feb 27 2015

EXHIBIT A GENERATOR INTERCONNECTION GUIDANCE AND AGREEMENT

Dominion North Carolina Power's procedures for generator interconnection are available through the Internet at the Company's website with draft interconnection agreements for non-FERC jurisdictional generators (as approved by the NCUC included as Attachments 1, 2 and 3 thereto). For FERC jurisdictional generators interconnection shall be in accordance with FERC and PJM requirements.

The specific Internet address for these procedures is https://www.dom.com/dominion-northcarolina-power/customer-service/rates-and-tariffs/pdf/term24.pdf. The Internet site contains links to the Generator Interconnection Procedures along with the Generator Interconnection Request Form. Once an Interconnection Agreement is executed it will be included herewith as part of this Exhibit A.

Attachment 9

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NORTH CAROLINA

INTERCONNECTION AGREEMENT

SolNCPower2, LLC

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TABLE OF CONTENTS

OFFICIAL COPY

Feb 27 2015

		Page No.
Article 1.	Scope and Limitations of Agreement	1
1.1	Applicability	1
1.2	Purpose	2
1.3	Limitations	2
1.5	Responsibilities of the Parties	2
1.6	Parallel Operation Obligations	
1.7	Reactive Power	
1.9	Capitalized Terms	4
Article 2.	Inspection, Testing, Authorization, and Right of Access	4
2.1	Equipment Testing and Inspection	4
2.2	Authorization Required Prior to Parallel Operation	5 5
Article 3	Effective Date Term Termination and Disconnection	
3.1	Effective Date.	. ß
3.2	Term of Agreement	6
3.3	Termination	6
5.4 Autore 4		b
Article 4	Cost Responsibility for Interconnection Facilities and Distribution	8
4.1	Interconnection Facilities	
4.2	Distribution Upgrades	
Article 5.	Cost Responsibility for Network Upgrades	9
5.1	Applicability	
0.2		
Article 6.	Billing, Payment, Milestones, and Financial Security	
6.1 6.2	Billing and Payment Procedures and Final Accounting	10
6.3	Financial Security Arrangements	
Article 7.	Assignment, Liability, Indemnity, Force Majeure, Consequential	
:	Damages, and Default	
7.1	Assignment.	
7.3	Indemnity	
7.4	Consequential Damages	
7.5	Force Majeure	
1.6		

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1	
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· · · · · · · · · · · · · · · · · · ·	Page No.
Article 8.	Insurance14
Article 9.	Confidentiality15
Article 10.	Disputes
Article 11.	Taxes
Article 12.	Miscellaneous16
12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12	Governing Law, Regulatory Authority, and Rules16Amendment17No Third-Party Beneficiaries17Waiver17Entire Agreement17Multiple Counterparts18No Partnership18Severability18Security Arrangements18Environmental Releases18Subcontractors19Reservation of Rights19
Article 13.	Notices
13.1 13.2 13.3 13.4 13.5 Appendix 1 -	General.19Billing and Payment.20Alternative Forms of Notice21Designated Operating Representative22Changes to the Notice Information22Glossary of Terms
Appendix 2 -	Description and Costs of the Generating Facility, Interconnection Facilities, and Metering Equipment
Appendix 3 -	One-line Diagram Depicting the Generating Facility, Interconnection Facilities, Metering Equipment, and Upgrades
Appendix 4 -	Milestones
Appendix 5 –	Additional Operating Requirements for the Utility's System and Affected Systems Needed to Support the Interconnection Customer's Needs
Appendix 6 –	Utility's Description of its Upgrades and Best Estimate of Upgrade Costs
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This Interconnection Agreement ("Agreement") is made and entered into this 22nd day of May, 2014, by Virginia Electric and Power Company, doing business as Dominion North Carolina Power ("Utility"), and SolNCPower2, LLC ("Interconnection Customer") each hereinafter sometimes referred to individually as "Party" or both referred to collectively as the "Parties."

Utility Information

Utility: Virginia Electric and Power Company

Attention: Mike Nester

Address: 701 East Cary Street, 8th Floor

General City, State, Zip: <u>Richmond, Virginia 23219</u>

Phone: (804) 771-6239 Fax: (804) 771-4204

Interconnection Customer Information

Interconnection Customer: SOLNCPOWER2, LLC Attention: Interconnection Administrator Address: 3840 S. Palo Verde, Suite # 205 City, State, Zip: Tucson AZ. 85714 Phone (520) 807-1300 Fax (520) 807 4046

Interconnection Request ID No: NC13026

In consideration of the mutual covenants set forth herein, the Parties agree as follows:

Article 1. Scope and Limitations of Agreement

1.1 <u>Applicability</u>

This Agreement shall be used for all Interconnection Requests submitted under the North Carolina Interconnection Procedures except for those submitted under the 10 kW Inverter Process in Section 2 of the Interconnection Procedures.

1.2 <u>Purpose</u>

This Agreement governs the terms and conditions under which the Interconnection Customer's Generating Facility will interconnect with, and operate in parallel with, the Utility's System.

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No Agreement to Purchase or Deliver Power or RECs

This Agreement does not constitute an agreement to purchase or deliver the Interconnection Customer's power or Renewable Energy Certificates (RECs): The purchase or delivery of power, RECs that might result from the operation of the Generating Facility, and other services that the Interconnection Customer may require will be covered under separate agreements, if any. The Interconnection Customer will be responsible for separately making all necessary arrangements (including scheduling) for delivery of electricity with the applicable Utility.

1.4 Limitations

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8 Nothing in this Agreement is intended to affect any other agreement between the 4. Utility and the Interconnection Customer.

1.5 <u>Responsibilities of the Parties</u>

The Parties shall perform all obligations of this Agreement in accordance with all Applicable Laws and Regulations, Operating Requirements, and Good Utility Practice.

The Interconnection Customer shall construct, interconnect, operate and maintain its Generating Facility and construct, operate, and maintain its Interconnection Facilities in accordance with the applicable manufacturer's recommended maintenance schedule, and in accordance with this Agreement, and with Good Utility Practice.

The Utility shall construct, operate, and maintain its System and Interconnection Facilities in accordance with this Agreement, and with Good Utility Practice.

The Interconnection Customer agrees to construct its facilities or systems in accordance with applicable specifications that meet or exceed those provided by the National Electrical Safety Code, the American National Standards Institute, IEEE, Underwriters' Laboratories, and Operating Requirements in effect at the time of construction and other applicable national and state codes and standards. The Interconnection Customer agrees to design, install, maintain, and operate its Generating Facility so as to reasonably minimize the likelihood of a disturbance adversely affecting or impairing the System or equipment of the Utility and any Affected Systems.

1.5.5 Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facilities that it now or subsequently may own unless otherwise specified in the Appendices to this Agreement. Each

NC Interconnection Agreement

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Party shall be responsible for the safe installation, maintenance, repair and condition of their respective lines and appurtenances on their respective sides of the point of change of ownership. The Utility and the Interconnection Customer, as appropriate, shall provide Interconnection Facilities that adequately protect the Utility's System, personnel, and other persons from damage and injury. The allocation of responsibility for the design, installation, operation, maintenance and ownership of Interconnection Facilities shall be delineated in the Appendices to this Agreement. OFFICIAL

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The Utility shall coordinate with all Affected Systems to support the interconnection.

1.6 Parallel Operation Obligations

Once the Generating Facility has been authorized to commence parallel operation, the Interconnection Customer shall abide by all rules and procedures pertaining to the parallel operation of the Generating Facility in the applicable control area, including, but not limited to: 1) any rules and procedures concerning the operation of generation set forth in Commission-approved tariffs or by the applicable system operator(s) for the Utility's System and; 2) the Operating Requirements set forth in Appendix 5 of this Agreement.

1.7 <u>Metering</u>

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The Interconnection Customer shall be responsible for the Utility's reasonable and necessary cost for the purchase, installation, operation, maintenance, testing, repair, and replacement of metering and data acquisition equipment specified in Appendices 2 and 3 of this Agreement. The Interconnection Customer's metering (and data acquisition, as required) equipment shall conform to applicable industry rules and Operating Requirements.

1.8 Reactive Power

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The Interconnection Customer shall design its Generating Facility to maintain a composite power delivery at continuous rated power output at the Point of Interconnection at a power factor within the range of 0.95 leading to 0.95 lagging, unless the Utility has established different requirements that apply to all similarly situated generators in the control area on a comparable basis. The requirements of this paragraph shall not apply to wind generators.

8.2 The Utility is required to pay the Interconnection Customer for reactive power that the Interconnection Customer provides or absorbs from the Generating Facility when the Utility requests the Interconnection Customer to operate its Generating Facility outside the range specified

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in Article 1.8.1. In addition, if the Utility pays its own or affiliated generators for reactive power service within the specified range, it must also pay the Interconnection Customer.

Payments shall be in accordance with the Utility's applicable rate schedule then in effect unless the provision of such service(s) is subject to a regional transmission organization or independent system operator FERC-approved rate schedule. To the extent that no rate schedule is in effect at the time the Interconnection Customer is required to provide or absorb reactive power under this Agreement, the Parties agree to expeditiously file such rate schedule and agree to support any request for waiver of any prior notice requirement in order to compensate the Interconnection Customer from the time service commenced.

1.9 <u>Capitalized Terms</u>

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Capitalized terms used herein shall have the meanings specified in the Glossary of Terms in Attachment 1 of the North Carolina Interconnection Procedures or the body of this Agreement.

Article 2. Inspection, Testing, Authorization, and Right of Access

2.1 Equipment Testing and Inspection

The Interconnection Customer shall test and inspect its Generating Facility and Interconnection Facilities prior to interconnection. The Interconnection Customer shall notify the Utility of such activities no fewer than five Business Days (or as may be agreed to by the Parties) prior to such testing and inspection. Testing and inspection shall occur on a Business Day, unless otherwise agreed to by the Parties. The Utility may, at its own expense, send qualified personnel to the Generating Facility site to inspect the interconnection and observe the testing. The Interconnection Customer shall provide the Utility a written test report when such testing and inspection is completed.

The Utility shall provide the Interconnection Customer written acknowledgment that it has received the Interconnection Customer's written test report. Such written acknowledgment shall not be deemed to be or construed as any representation, assurance, guarantee, or warranty by the Utility of the safety, durability, suitability, or reliability of the Generating Facility or any associated control, protective, and safety devices owned or controlled by the Interconnection Customer or the quality of power produced by the Generating Facility.

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2.2 Authorization Required Prior to Parallel Operation

> 2.2.1 The Utility shall use Reasonable Efforts to list applicable parallel operation requirements in Appendix 5 of this Agreement. Additionally, the Utility shall notify the Interconnection Customer of any changes to these requirements as soon as they are known. The Utility shall make Reasonable Efforts to cooperate with the Interconnection Customer in meeting requirements necessary for the Interconnection Customer to commence parallel operations by the in-service date.

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The Interconnection Customer shall not operate its Generating Facility in parallel with the Utility's System without prior written authorization of the Utility. The Utility will provide such authorization once the Utility receives notification that the Interconnection Customer has complied with all applicable parallel operation requirements. Such authorization shall not be unreasonably withheld, conditioned, or delayed.

2.3 **Right of Access**

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> Upon reasonable notice, the Utility may send a qualified person to the premises of the Interconnection Customer at or immediately before the time the Generating Facility first produces energy to inspect the interconnection, and observe the commissioning of the Generating Facility (including any required testing), startup, and operation for a period of up to three Business Days after initial start-up of the unit. In addition, the Interconnection Customer shall notify the Utility at least five Business Days prior to conducting any on-site verification testing of the Generating Facility. · · · · · · · · ·

Following the initial inspection process described above, at reasonable hours, and upon reasonable riotice, or at any time without notice in the event of an emergency or hazardous condition, the Utility shall have access to the Interconnection Customer's premises for any reasonable purpose in connection with the performance of the obligations imposed on it by this Agreement or if necessary to meet its legal obligation to provide service to its customers.

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2.3.3 Each Party shall be responsible for its own costs associated with following this Article.

Effective Date, Term, Termination, and Disconnection Article 3.

3.1 Effective Date

This Agreement shall become effective upon execution by the Parties.

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NC Interconnection Agreement

3.2 Term of Agreement

Fifteen Werning This Agreement shall become effective on the Effective Date and shall remain in effect for a period of i years from the Effective Date or such other longer period as the Interconnection Customer may request and shall be automatically renewed for each successive one-year period thereafter, unless terminated earlier in accordance with Article 3.3 of this Agreement.

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3.3 Termination

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No termination shall become effective until the Parties have complied with all Applicable Laws and Regulations applicable to such termination.

> The Interconnection Customer may terminate this Agreement at any time by giving the Utility 20 Business Days written notice and physically and permanently disconnecting the Generating Facility from the Utility's System.

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- Either Party may terminate this Agreement after Default pursuant to Article 7.6. · · ·
- Upon termination of this Agreement, the Generating Facility will be disconnected from the Utility's System. All costs required to effectuate such disconnection shall be borne by the terminating Party, unless such termination resulted from the non-terminating Party's Default of this Agreement or such non-terminating Party otherwise is responsible for these costs under this Agreement.
- 3.3.4The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of the terminátion.
 - The provisions of this article shall survive termination or expiration of 3.3.5 this Agreement.
- 3.4 **Temporary Disconnection**
 - Temporary disconnection shall continue only for so long as reasonably necessary under Good Utility Practice.
 - **Emergency Conditions** 3.4.1

"Emergency Condition" shall mean a condition or situation: (1) that in the judgment of the Party making the claim is imminently likely to endanger life or property; or (2) that, in the case of the Utility, is imminently likely (as determined in a non-discriminatory manner) to

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cause a material adverse effect on the security of, or damage to the Utility's System, the Utility's Interconnection Facilities or the systems of others to which the Utility's System is directly connected; or (3) that, in the case of the Interconnection Customer, is imminently likely (as determined in a non-discriminatory manner) to cause a material adverse effect on the security of, or damage to, the Generating Facility or the Interconnection Customer's Interconnection Facilities. Under Emergency Conditions, the Utility may immediately suspend interconnection service and temporarily disconnect the Generating Facility. The Utility shall notify the Interconnection Customer promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Interconnection Customer's operation of the Generating Facility. The Interconnection Customer shall notify the Utility promptly when it becomes aware of an Emergency Condition that may reasonably be expected to affect the Utility's System or any Affected Systems. To the extent information is known, the notification shall describe the Emergency Condition, the extent of the damage or deficiency, the expected effect on the operation of both Parties' facilities and operations, its anticipated duration, and the necessary corrective action.

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Routine Maintenance, Construction, and Repair

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The Utility may interrupt interconnection service or curtail the output of the Generating Facility and temporarily disconnect the Generating Facility from the Utility's System when necessary for routine maintenance, construction, and repairs on the Utility's System. The Utility shall provide the Interconnection Customer with five Business Days notice prior to such interruption. The Utility shall use Reasonable Efforts to coordinate such reduction or temporary disconnection with the Interconnection Customer.

3.4.3 Forced Outages

During any forced outage, the Utility may suspend interconnection service to effect immediate repairs on the Utility's System. The Utility shall use Reasonable Efforts to provide the Interconnection Customer with prior notice. If prior notice is not given, the Utility shall, upon request, provide the Interconnection Customer written documentation after the fact explaining the circumstances of the disconnection.

3.4.4 Adverse Operating Effects

The Utility shall notify the Interconnection Customer as soon as practicable if, based on Good Utility Practice, operation of the Generating Facility may cause disruption or deterioration of service to

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other customers served from the same electric system, or if operating the Generating Facility could cause damage to the Utility's System or Affected Systems. Supporting documentation used to reach the decision to disconnect shall be provided to the Interconnection Customer upon request. If, after notice, the Interconnection Customer fails to remedy the adverse operating effect within a reasonable time, the Utility may disconnect the Generating Facility. The Utility shall provide the Interconnection Customer with five Business Day notice of such disconnection, unless the provisions of Article 3.4.1 apply.

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Modification of the Generating Facility

The Interconnection Customer must receive written authorization from the Utility before making any change to the Generating Facility that may have a material impact on the safety or reliability of the Utility's System. Such authorization shall not be unreasonably withheld. Modifications shall be done in accordance with Good Utility Practice. If the Interconnection Customer makes such modification without the Utility's prior written authorization, the latter shall have the right to temporarily disconnect the Generating Facility.

3.4.6 <u>Reconnection</u>

The Parties shall cooperate with each other to restore the Generating Facility, Interconnection Facilities, and the Utility's System to their normal operating state as soon as reasonably practicable following a temporary or emergency disconnection.

Article 4. Cost Responsibility for Interconnection Facilities and Distribution Upgrades

4.1 Interconnection Facilities

The Interconnection Customer shall pay for the cost of the Interconnection Facilities itemized in Appendix 2 of this Agreement. The Utility shall provide a best estimate cost, including overheads, for the purchase and construction of its Interconnection Facilities and provide a detailed itemization of such costs. Costs associated with Interconnection Facilities may be shared with other entities that may benefit from such facilities by agreement of the Interconnection Customer, such other entities, and the Utility.

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2 The Interconnection Customer shall be responsible for its share of all reasonable expenses, including overheads, associated with (1) owning, operating, maintaining, repairing, and replacing its own interconnection

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Facilities, and (2) operating, maintaining, repairing, and replacing the Utility's Interconnection Facilities.

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4.2 <u>Distribution Upgrades</u>

The Utility shall design, procure, construct, install, and own the Distribution Upgrades described in Appendix 6 of this Agreement. If the Utility and the Interconnection Customer agree, the Interconnection Customer may construct Distribution Upgrades that are located on land owned by the Interconnection Customer. The actual cost of the Distribution Upgrades, including overheads, shall be directly assigned to the Interconnection Customer.

Article 5. Cost Responsibility for Network Upgrades

5.1 <u>Applicability</u>

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No portion of this Article 5 shall apply unless the interconnection of the Generating Facility requires Network Upgrades.

5.2 <u>Network Upgrades</u>

The Utility shall design, procure, construct, install, and own the Network Upgrades described in Appendix 6 of this Agreement. If the Utility and the Interconnection Customer agree, the Interconnection Customer may construct Network Upgrades that are located on land owned by the Interconnection Customer. Unless the Utility elects to pay for Network Upgrades, the actual cost of the Network Upgrades, including overheads, shall be borne by the Interconnection Customer.

Article, 6. Billing, Payment, Milestones, and Financial Security

6.1 Billing and Payment Procedures and Final Accounting

6.1.1 The Utility shall bill the Interconnection Customer for the design, engineering, construction, and procurement costs of Interconnection Facilities and Upgrades contemplated by this Agreement on a monthly basis, or as otherwise agreed by the Parties. The Interconnection Customer shall pay each bill within 30 calendar days of receipt, or as otherwise agreed to by the Parties.

Within three months of completing the construction and installation of the Utility's Interconnection Facilities and/or Upgrades described in the Appendices to this Agreement, the Utility shall provide the Interconnection Customer with a final accounting report of any difference between (1) the Interconnection Customer's cost responsibility for the actual cost of such facilities or Upgrades, and

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(2) the Interconnection Customer's previous aggregate payments to the Utility for such facilities or Upgrades. If the Interconnection Customer's cost responsibility exceeds its previous aggregate payments, the Utility shall invoice the Interconnection Customer for the amount due and the Interconnection Customer shall make payment to the Utility within 30 calendar days. If the Interconnection Customer's previous aggregate payments exceed its cost responsibility under this Agreement, the Utility shall refund to the Interconnection Customer an amount equal to the difference within 30 calendar days of the final accounting report. · · · •.

6.1.3 🧋 If the Interconnection Customer elects the payment procedures in Articles 6.1.1 and 6.1.2, the Utility may also bill the Interconnection , ir Customer periodically for the costs associated with operating, maintaining, repairing and replacing the Utility's Interconnection Facilities, as set forth in Appendix 2 of this Agreement.

> The Interconnection Customer may elect to be billed the costs in Articles 6.1.1 and 6.1.2 and for on-going operations, maintenance, repair and replacement of the Utility's Interconnection Facilities under a Utility rate schedule, tariff, rider or service regulation providing for extra facilities charges, as set forth in Appendix 2 of this Agreement, such monthly charges to continue throughout the entire life of the interconnection. : de

6,2 **Milestones**

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The Parties shall agree on milestones for which each Party is responsible and list them in Appendix 4 of this Agreement. A Party's obligations under this provision may be extended by agreement. If a Party anticipates that it will be unable to meet a milestone for any reason other than a Force Majeure Event, it shall immediately notify the other Party of the reason(s) for not meeting the milestone. and (1) propose the earliest reasonable alternate date by which it can attain this and future milestones, and (2) request appropriate amendments to Appendix 4. The Party affected by the failure to meet a milestone shall not unreasonably withhold agreement to such an amendment unless (1) it will suffer significant uncompensated economic or operational harm from the delay, (2) attainment of the same milestone has previously been delayed, or (3) it has reason to believe that the delay in meeting the milestone is intentional or unwarranted notwithstanding the circumstances explained by the Party proposing the amendment.

6.3 **Financial Security Arrangements**

At least 20 Business Days prior to the commencement of the design, procurement, installation, or construction of a discrete portion of the Utility's

NC Interconnection Agreement

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Interconnection Facilities and Upgrades, the Interconnection Customer shall provide the Utility, at the Interconnection Customer's option, a guarantee, a surety bond, letter of credit or other form of security that is reasonably acceptable to the Utility and is consistent with the Uniform Commercial Code of North Carolina. Such security for payment shall be in an amount sufficient to cover the costs for constructing, designing, procuring, and installing the applicable portion of the Utility's Interconnection Facilities and Upgrades and shall be reduced on a dollar-for-dollar basis for payments made to the Utility under this Agreement during its term. In addition: OFFICIAL COP

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creditworthiness requirements of the Utility, and contain terms and conditions that guarantee payment of any amount that may be due from the Interconnection Customer, up to an agreed to maximum amount.

The guarantee must be made by an entity that meets the

The letter of credit or surety bond must be issued by a financial institution or insurer reasonably acceptable to the Utility and must specify a reasonable expiration date.

The Utility may waive the security requirements if its credit policies show that the financial risks involved are de minimus, or if the Utility's policies allow the acceptance of an alternative showing of creditworthiness from the Interconnection Customer.

Article 7. Assignment, Liability, Indemnity, Force Majeure, Consequential Damages, and Default

7.1 <u>Assignment</u>

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7.1.1 This Agreement shall not survive the transfer of ownership of the Generating Facility to a new owner. The new owner must complete a new Interconnection Request and submit it to the Utility within 20 Business Days of the transfer of ownership or the Utility's Interconnection Facilities shall be removed or disabled and the Generating Facility disconnected from the Utility's System. The Utility shall not study or inspect the Generating Facility unless the new owner's Interconnection Request indicates that a Material Modification has occurred or is proposed.

The Interconnection Customer shall have the right to assign this Agreement, without the consent of the Utility, for collateral security purposes to aid in providing financing for the Generating Facility, provided that the Interconnection Customer will promptly notify the Utility of any such assignment. Assignment shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof.



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Any attempted assignment that violates this article is void and ineffective. 7.1.3

7.2 Limitation of Liability

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, incidental, consequential, or punitive damages of any kind, except as authorized by this Agreement.

7.3 Indemnity

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This provision protects each Party from liability incurred to third parties as a result of carrying out the provisions of this Agreement. Liability under this provision is exempt from the general limitations on liability found in Article 7.2.

The Parties shall at all times indemnify, defend, and save the other Party harmless from, any and all damages, losses, claims, including claims and actions relating to injury to or death of any person or damage to property, demand, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from the other Party's action or inaction of its obligations under this Agreement on behalf of the indemnifying Party, except in cases of gross negligence or intentional wrongdoing by the indemnified Party.

7.3.3

If an indemnified Party is entitled to indemnification under this Article as a result of a claim by a third party, and the indemnifying Party fails, after notice and reasonable opportunity to proceed under this Article, to assume the defense of such claim, such indemnified Party may at the expense of the indemnifying Party contest, settle or consent to the entry of any judgment with respect to, or pay in full, such claim.

7.3.4

If an indemnifying Party is obligated to indemnify and hold any indemnified Party harmless under this Article, the amount owing to the indemnified Party shall be the amount of such indemnified Party's actual loss, net of any insurance or other recovery.

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7.3.5

Promptly after receipt by an indemnified Party of any claim or notice of the commencement of any action or administrative or legal proceeding or investigation as to which the indemnity provided for in this Article may apply, the indemnified Party shall notify the indemnifying Party of such fact. Any failure of or delay in such notification shall not affect a



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Party's indemnification obligation unless such failure or delay is materially prejudicial to the indemnifying Party.

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7.4 Consequential Damages

Other than as expressly provided for in this Agreement, neither Party shall be liable under any provision of this Agreement for any losses, damages, costs or expenses for any special, indirect, incidental, consequential, or punitive damages, including but not limited to loss of profit or revenue, loss of the use of equipment, cost of capital, cost of temporary equipment or services, whether based in whole or in part in contract, in tort, including negligence, strict liability, or any other theory of liability; provided, however, that damages for which a Party may be liable to the other Party under another agreement will not be considered to be special, indirect, incidental, or consequential damages hereunder.

🖗 7.5 Force Majeure

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As used in this article, a Force Majeure Event shall mean any act of God, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood; explosion, breakage or accident to machinery or equipment, any order, regulation or restriction imposed by governmental, military or lawfully established civilian authorities, or any, other cause beyond a Party's control. A Force Majeure Event does not include an act of negligence or intentional wrongdoing.

If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, the Party affected by the Force Majeure Event (Affected Party) shall promptly notify the other Party, either in writing or via the telephone, of the existence of the Force Majeure Event. The notification must specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the Affected Party is taking to mitigate the effects of the event on its performance. The Affected Party shall keep the other Party informed on a continuing basis of developments relating to the Force Majeure Event until the event ends. The Affected Party will be entitled to suspend or modify its performance of obligations under this Agreement (other than the obligation to make payments) only to the extent that the effect of the Force Maleure Event cannot be mitigated by the use of Reasonable Efforts. The Affected Party will use Reasonable Efforts to resume its performance as soon as possible.

7.6 Default

No Default shall exist where such failure to discharge an obligation 7.6.1 (other than the payment of money) is the result of a Force Majeure Event as defined in this Agreement or the result of an act or omission

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of the other Party. Upon a Default, the non-defaulting Party shall give written notice of such Default to the defaulting Party. Except as provided in Article 7.6.2, the defaulting Party shall have 60 calendar days from receipt of the Default notice within which to cure such Default; provided however, if such Default is not capable of cure within 60 calendar days, the defaulting Party shall commence such cure within 20 calendar days after notice and continuously and diligently complete such cure within six months from receipt of the Default notice; and, if cured within such time, the Default specified in such notice shall cease to exist.

If a Default is not cured as provided in this Article, or if a Default is not capable of being cured within the period provided for herein, the non-defaulting Party shall have the right to terminate this Agreement by written notice at any time until cure occurs, and be relieved of any further obligation hereunder and, whether or not that Party terminates this Agreement, to recover from the defaulting Party all amounts due hereunder, plus all other damages and remedies to which it is entitled at law or in equity. The provisions of this article will survive termination of this Agreement.

Article 8, Insurance

7.6.2

8.1. The Interconnection Customer shall obtain and retain, for as long as the Generating Facility is interconnected with the Utility's System, liability insurance which protects the Interconnection Customer from claims for bodily injury and/or property damage. The amount of such insurance shall be sufficient to insure against all reasonably foreseeable direct liabilities given the size and nature of the generating equipment being interconnected, the interconnection itself, and the characteristics of the system to which the interconnection is made. This insurance shall be primary for all purposes. The Interconnection Customer shall provide certificates evidencing this coverage as required by the Utility. Such insurance shall be obtained from an insurance provider authorized to do business in North Carolina. The Utility reserves the right to refuse to establish or continue the interconnection of the Generating Facility with the Utility's System, if such insurance is not in effect.

For an Interconnection Customer that is a residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be a standard homeowner's insurance policy with liability coverage in the amount of at least \$100,000 per occurrence.

8.1.2 For an Interconnection Customer that is a non-residential customer of the Utility proposing to interconnect a Generating Facility no larger than 250 kW, the required coverage shall be comprehensive general

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liability insurance with coverage in the amount of at least \$300,000 per occurrence.

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8.1.3 An Interconnection Customer of sufficient credit-worthiness may propose to provide this insurance via a self-insurance program if it has a self-insurance program established in accordance with commercially acceptable risk management practices, and such a proposal shall not be unreasonably rejected.

The Utility agrees to maintain general liability insurance or self-insurance consistent with the Utility's commercial practice. Such insurance or self-insurance shall not exclude coverage for the Utility's liabilities undertaken pursuant to this Agreement.

The Parties further agree to notify each other whenever an accident or incident occurs resulting in any injuries or damages that are included within the scope of coverage of such insurance, whether or not such coverage is sought.

SArticle 9. Confidentiality

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Confidential Information shall mean any confidential and/or proprietary information provided by one Party to the other Party that is clearly marked or otherwise designated "Confidential." For purposes of this Agreement all design, operating specifications, and metering data provided by the Interconnection Customer shall be deemed Confidential Information regardless of whether it is clearly marked or otherwise designated as such.

Confidential Information does not include information previously in the public domain, required to be publicly submitted or divulged by Governmental Authorities (after notice to the other Party and after exhausting any opportunity to oppose such publication or release), or necessary to be divulged in an action to enforce this Agreement. Each Party receiving Confidential Information shall hold such information in confidence and shall not disclose it to any third party nor to the public without the prior written authorization from the Party providing that information, except to fulfill obligations under this Agreement, or to fulfill legal or regulatory requirements.

9.1.1 Each Party shall employ at least the same standard of care to protect Confidential Information obtained from the other Party as it employs to protect its own Confidential Information.

9.1.2 Each Party is entitled to equitable relief, by injunction or otherwise, to enforce its rights under this provision to prevent the release of Confidential Information without bond or proof of damages, and may seek other remedies available at law or in equity for breach of this provision.

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9.3 If information is requested by the Commission from one of the Parties that is otherwise required to be maintained in confidence pursuant to this Agreement. the Party shall provide the requested information to the Commission within the time provided for in the request for information. In providing the information to the Commission, the Party may request that the information be treated as confidential and non-public in accordance with North Carolina law and that the information be withheld from public disclosure.

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Disputes Article 10.

10.1 The Parties agree to attempt to resolve all disputes arising out of the where we interconnection process according to the provisions of this Article.

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10.2 In the event of a dispute, either Party shall provide the other Party with a written ÷. 4 notice of dispute. Such notice shall describe in detail the nature of the dispute.

10.3 If the dispute has not been resolved within two Business Days after receipt of the notice, either Party may contact the Public Staff for assistance in informally 14 resolving the dispute. If the Parties are unable to informally resolve the dispute, either Party may then file a formal complaint with the Commission.

10.4 Each Party agrees to conduct all negotiations in good faith.

Article 11. Taxes

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> 11.1 The Parties agree to follow all applicable tax laws and regulations, consistent. with North Carolina and federal policy and revenue requirements.

Each Party shall cooperate with the other to maintain the other Party's tax status. 11:2 Nothing in this Agreement is intended to adversely affect the Utility's tax exempt status with respect to the issuance of bonds including, but not limited to, local furnishing bonds.

Article 12. Miscellaneous

Governing Law, Regulatory Authority, and Rules 12.1

> The validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the State of North Carolina, without regard to its conflicts of law principles. This Agreement is subject to all Applicable Laws and Regulations. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, 'or regulations of a Governmental Authority.

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12.2 <u>Amendment</u>

The Parties may amend this Agreement by a written instrument duly executed by both Parties, or under Article 12.12 of this Agreement.

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12.3 No Third-Party Beneficiaries

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

12.4 Waiver

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The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer's legal rights to obtain an interconnection from the Utility. Any waiver of this Agreement shall, if requested, be provided in writing.

12.5 Entire Agreement

This Agreement, including all Appendices, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, either Party's compliance with its obligations under this Agreement.

12.6 <u>Multiple Counterparts</u>

This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

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12.7 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

12.8 Severability

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If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other Governmental Authority, (1) such portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling, and (3) the remainder of this Agreement shall remain in full force and effect.

12.9Security Arrangements

Infrastructure security of electric system equipment and operations and control hardware and software is essential to ensure day-to-day reliability and operational security. All Utilities are expected to meet basic standards for electric system infrastructure and operational security, including physical, operational, and cyber-security practices.

12.10 Environmental Releases

Each Party shall notify the other Party, first orally and then in writing, of the release of any hazardous substances, any asbestos or lead abatement activities, or any type of remediation activities related to the Generating Facility or the Interconnection Facilities, each of which may reasonably be expected to affect the other Party. The notifying Party shall (1) provide the notice as soon as practicable, provided such Party makes a good faith effort to provide the notice no later than 24 hours after such Party becomes aware of the occurrence, and (2) promptly furnish to the other Party copies of any publicly available reports filed with any Governmental Authorities addressing such events.

12.11 Subcontractors

Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

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shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall the Utility be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under this Agreement. Any applicable obligation imposed by this Agreement upon the hiring Party shall be equally binding upon. and shall be construed as having application to, any subcontractor of such Party.

Party of any of its obligations under this Agreement. The hiring Party

12.11.1 The creation of any subcontract relationship shall not relieve the hiring

12,11.2 The obligations under this article will not be limited in any way by any limitation of subcontractor's insurance.

12.12 <u>Reservation of Rights</u>

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The Utility shall have the right to make a unilateral filing with the Commission to modify this Agreement with respect to any rates, terms and conditions, charges, or classifications of service, and the Interconnection Customer shall have the right to make a unilateral filing with the Commission to modify this Agreement; provided that each Party shall have the right to protest any such filing by the other Party and to participate fully in any proceeding before the Commission in which such modifications may be considered. Nothing in this Agreement shall limit the rights of the Parties except to the extent that the Parties otherwise agree as provided herein.

Article 13. Notices

13.1 General

> Unless otherwise provided in this Agreement, any written notice, demand, or request required or authorized in connection with this Agreement (Notice) shall be deemed properly given if delivered in person, delivered by recognized national courier service, or sent by first class mail, postage prepaid, to the person specified below:

If to the Interconnection Customer:

Interconnection Customer: SOLNCPOWER2, LLC

Attention: Interconnection Administrator

Address: 13840 S. Palo Verde Suite # 205

City, State, Zip: Tueson AZ 85714

Fax (520) 801 +4046 Phone (520) 801-1300

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If to the Utility:

 Utility: Virginia Electric and Power Company

 Attention: Mike Nester

 Address: 701 East Cary Street, 8th Floor

 City, State, Zip: Richmond, Virginia 23219

 Phone: (804) 771-6239

 Fax: (804) 771-4204

13.2 Billing and Payment

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Billings and payments shall be sent to the addresses set out below:

Interconnection Customer: <u>SOLNCPOWER2, LLC</u> Attention: <u>Interconnection Administrator</u>

Address: 3840 S. Palo Verde, Suite # 205

City, State, Zip: Tueson AZ 85714 Phone (520) 807-1300. Fax (520) 807-4046

If to the Utility:

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 Wirginia Electric and Power Company

 Attention: Remittance Processing Services

 Address: P.O. Box 26543

 City, State, Zip: Richmond, Virginia 23290

13.3 Alternative Forms of Notice

Any notice or request required or permitted to be given by either Party to the other and not required by this Agreement to be given in writing may be so given by telephone, facsimile or e-mail to the telephone numbers and e-mail addresses set out below:

If to the Interconnection Customer:

Interconnection Customer: SOLNCPOWER2, LLC Attention: <u>Heath Meshcuighlin / Heath Mchaughlin & Solon, com</u> Address: 176 Mine Lake Court, Suite # 100 City, State, Zip: & Raleigh; NC 27615 Phone (321) 202-3600 Fax (321) 226-7000

NC Interconnection Agreement



If to the Utility:

Utility: Virginia Electric and Power Company Attention: Mike Nester

Address: 701 East Cary Street, 8th Floor

City, State, Zip: Richmond, Virginia 23219

13.4 Designated Operating Representative

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The Parties may also designate operating representatives to conduct the communications which may be necessary or convenient for the administration of this Agreement. This person will also serve as the point of contact with respect to operations and maintenance of the Party's facilities.

Interconnection Customer's Operating Representative:

Interconnection Customer: <u>SOLNCPOWER2, LLC</u> Attention: <u>William</u> Richardson / William, Richardson C Solon, Com Address: <u>3840</u>, S. Palo Verde, <u>Suite # 205</u> City, State, Zip: <u>Tueson</u>, AZ <u>85714</u> Phone (520), 665-8533 Fax (520) 807-4046

Utility's Operating Representative:

 Utility: Virginia Electric and Power Company

 Attention: ROC Shift Supervisor

 Address: 2700 Cromwell Rd.

 City, State, Zip: Norfolk, Virginia 23509

 Phone: (757) 857-6702

Fax: (757) 857-2633

13.5 Changes to the Notice Information

Either Party may change this information by giving five Business Days written notice prior to the effective date of the change.

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EEICIA IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their respective duly authorized representatives., For the Utility Name: ustomer Solutions Title: Date: For the Interconnection Customer Name: Title: Date: 2214 INE_ ЭI

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Glossary of Terms

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See Glossary of Terms, Attachment 1 to the North Carolina Interconnection Procedures.

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Description and Costs of the Generating Facility, Interconnection Facilities, and Metering Equipment

Generating Facility

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Generating facility will be 5 MW of ground mounted solar arrays.

Customer Interconnection Facilities

An Customer will be responsible for all associated solar panels, inverters, transformers and underground line built to Point of Interconnection with Utility. Customer will also provide terminations for the underground cable if necessary and all items listed 57

Installation of all conductors between the generating facility and POI.

Installation of pad mounted transformers

 Installation of a three phase interruption device 33

 Installation of all generator breakers and associated equipment

Communication lines for all metering

Communication between customer breaker and Utility recloser if required Ât

If and when the aggregate generation interconnected to this circuit is greater than

- 10 MW, the Customer must provide generator status and generator
- instantaneous MW output to PJM per Manual 14A of the PJM OATT via ÷ . communication links installed, owned, and maintained by the Customer.

- Interconnection Facilities and Metering
- . Instail 4 new poles
 - Installation of Recloser
 - Installation of one terminal pole
 - 250 feet of 477 aluminum three phase conductor and neutral 6
 - One Disconnect Switches
 - All metering needed for interconnection of generation and auxiliary load

. • . The estimated cost of the installation of the new attachment facilities to provide the interconnection is \$ 130,060.59.

The customer will be also be responsible for an ongoing monthly operation and maintenance cost of %0.44 percent of the estimated cost of the new facilities of \$130,060.59. The calculation will be; \$130,060.59 x %.44 = \$572.27 a month.

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:	Milestones	
In-Se	ervice Date: 12/15/2014	
Critic	al milestones and responsibility as agreed to by the	e Parties:
	Milestone/Date	Responsible Party
(1)	Sub-station upgrades	Dominion
(2)	Interconnect pole set	Dominion
(3)	Final connection to grid	Dominion
: k (4)	Anti-islanding test if required	Dominion
) (5)		
, (6)		
(7)		
(8)		
(9)		· · · · ·
(10)		
/ · Aarea	ed to by:	inter and an
For th	ne Utility	Date
For th	ne Interconnection Customer	Date
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Additional Operating Requirements for the Utility's System and Affected Systems Needed to Support the Interconnection Customer's Needs

Technical Requirements for Customer 5 MW of Generation

The Company has reviewed the 5.0/6.5 MW ac/dc Solon Corporation Solar Farm (NC13026) request for installation of parallel Generation units located on a parcel of land along the north side of Belvidere Road in Winfall, North Carolina. The Customer desires to export power into the Dominion North Carolina Power (DNCP) utility Electric Power System (EPS). This is typically an inverter (UL1741/IEEE 1547 certified) based interconnection which consists of a total of eight (8) Schneider Electric Conext Core XC630-NA inverters units rated 630 kVA and operating at 350 V. The inverter system is installed in blocks of two (2) 630 kVA inverters connected to a three (3) phase 1,500 kVA step-up transformer for a total of four (4) PV Inverters-Transformer systems. All transformers will be rated 202/350V – 19.9/34.5 kV with a wye-ground (primary) / Delta-Delta (secondary) winding configuration. The DG owner should <u>plan for the installation of a Grounding on the neutral of all the generator step-up transformers</u>. The resulting protection requirements are based on the following information:

- No more than 5.0/6.5 MW ac/dc of total generation will be in parallel with the DNCP system at any one time.
- The customer's generation facility will be paralleled with the DNCP system by the following connections:

The Customer will be connected to Winfall Substation (34.5 kV voltage level) via circuit breaker 43022 and a distribution circuit composed of generally overhead type construction to the Point Of Interconnection (POI) approximately 3.5 miles from the substation. Solon Corporation will interconnect to DNCP distribution facilities on their site at the POI.

Winfall Substation's distribution circuit breaker (43022) has reclosing times at 10 seconds and 45 seconds after the first trip.

- Transmission Line 247 has both instantaneous reclosing (21 to 23 cycles after trip) and time delayed reclosing (10, 15, 80 seconds after trip) applied on the Terminal Breakers (Current Configuration).
- The load data for the pertinent protection zones are as follows:

Late 2015 / 2016 Configuration

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- Winfall Circuit 430 (43022) has a typical "light" loading of 0.78 MVA
- Winfall 34.5 kV Bus #5 has a typical "light" loading of 0.78 MVA



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Current Configuration

> Winfall Circuit 430 (43022) has a typical "light" loading of 0.78 MVA

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> Winfall 34.5 kV Bus #3 has a typical "light" loading of 0.78 MVA

> Winfall Transformer #3 has a typical "light" loading of 0.78 MVA

Winfall Transformer #2 has a typical "light" loading of 5.4 MVA

> Line 247 has a typical "light" loading of 10.03 MVA

 Customer parallel operation will not be limited to any particular time or utility circuitloading condition (sunlight, however, is required to produce energy).

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The customer will be contracting with DNCP to export power into the DNCP distribution system.

Based on projected minimum loads given for applicable utility sectionalizing devices, (current and foreseeable future) the following minimum "Local Load to Customer Generation Capacity" ratios will apply for this installation:

Configuration Projected For Late 2015 / 2016 -

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Utility Device	Minimum Ratio	
230 kV Bus #2	0.120	
 Transformer #5	0.120	• • • • • • • • • • • •
34,5 kV Bus #5	0.120	
43022	0.120	•••
		•

Current Configuration -

	Utility Device	Minimum Ratio
	Line 247	0.772
	Transformer #2	0.415
and the second second	115 kV Bus #2	0.415
	Transformer #3	.0,120
· · ·	34.5 kV Büs #3	0.120
	43022	0.120

Interconnection Agreement



The minimum ratios applicable for this installation would normally require the customer to have the Direct Pilot Wire Tripping (or Transfer Trip) function installed from the utility devices (Current Configuration: Line 247 Terminals, Transformer #2, 115 kV Bus #2, Transformer #3, 34.5 kV Bus #3 and Distribution Circuit Breaker 43022) and (2015/2016 Configuration: 230 kV Bus #2, Transformer #5, 34.5 kV Distribution Bus #5 and Distribution Circuit Breaker 43022) to the generation site's main breaker (main breaker trip coil and lockout) or potentially a new ALR 430RXXX located at the Point of Common Coupling (PCC). Such direct tripping functions should sectionalize the customer generation for any opening of the respective device. The direct trip control feature is meant to ensure that a "prolonged" (or "permanent") islanding condition (with the customer generation supplying utility load in the absence of the utility source) will not be set-up.

However, based on the type and size of your generation, the applicable industry Standards (i.e. UL-1741, IEEE-1547) and your equipment individually meeting this specification, DNCP will require the installation of the Dominion owned ALR (430RXXX) at the PCC or POI with all required relaying (described in Table 1 below) as well as all communication equipment (to be specified by DNCP) at the customer expense, Such ALR should provide another isolation point by taking the customer off line during hot line work.

Moreover due to the generation, the Circuit 430 relaying at the Winfall Substation will need to be upgraded to add the capability of determining directionality (relay modification along with the addition of Bus #3 potential to the current configuration).

Additionally with the use of wye-ground (primary) / delta (secondary) generator step-up transformers, our analysis have shown an increase in total fault current contribution as well as an increase in operating time during faults due to the relays not being designed to detect by directional current flow. In order to reduce such fault contribution and maintain DNCP's protective relay's sensitivity, a 40 to 50 ohms grounding resistor (NGR) will be required on each of the DG owner's step-up transformer (i.e. transformer neutral path). Such addition is meant to limit 310 when the Electric Power System (EPS) protection device has operated and the PV-inverter system has not, while keeping the DNCP system grounded in the islanded situation.

Furthermore in order to coordinate with the ALR's relay (i.e. see settings outlined in Table 2) while maintaining adequate backup protection, DNCP will require the Customer's Inverter (adjustable) Protection Set Points to be set in the manner described in Table 2 below.

The required relay functions (each sectionalizing all of the customer's generation) and the corresponding setting ranges, applying for the designated utility feed and ALR 430RXXX, are listed in the following table:

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TABL **Duration to Generation** Set Point Function Disconnection (seconds) 73 % of nominal 27 Undervoltage 2.0 operating voltage 110% of nominal 59 2.0 Overvoltage operating voltage 81U 2.0Underfrequency 59.5 Hz

Harmonics (voltage and current) if not controlled can be a source of problems on the DNCP network. Though it is definitive that small scale PV systems (i.e. about 5 kW,dc or less) have little to no significant Harmonics effects on the system provided their associated converter meet the IEEE standard 519 (Guideline for Harmonic Control and Reactive Compensation of Static Power Converter), the impacts of larger scale PV systems is far less certain. It is a general consensus that a concentration of small sources of harmonic or demand distortion - as little as they could be - can have a significant effect on the overall utility network's power quality as the effect of harmonics are cumulative thus making it imperative not to ignore the Harmonics in this particular 6.5 MW dc interconnection request.

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Set for minimum, with

adequate load allowance

In Summary, Power Quality baseline readings will be required at the PCC before and after the interconnection is completed in order to monitor the Harmonic effects of the Generation unit and will be obtained at the customer's expense. Also, if there is evidence that the Total Harmonic Distortion (THD) or Total Demand Distortion (TDD) is greater than or equal to 5% harmonic distortion for any single harmonic is greater than or equal to 3%, the customer would be required to add a filtering system to its installation to meet the requirements of IEEE 519. . .

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Overfrequency

Overcurrent

Phase Time-delay



Form No. 729711(Jan 2004) @2004 Dominion

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Maintain proper coordination

with customer high side fuse

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	Function	Set Point	Duration to 'Generation Disconnection (seconds / cycles)
27	Under-voltage	73 % (or more) of nominal operating voltage	0,25 0 :0833 /15.0
59	Over-voltage	106 % (or less) of nominal operating voltage	0,25 0.0833 /15.0
81 [°] U	Under-frequency	59.5 Hz	0.25 0.0833 /15.0
81 O	Over-frequency	60.5 Hz	<i>0,25</i> 0 .9833 /15.0
	Overall Anti-Islanding	Set for ≤ 5,0 Cycle disconnection / cleared or shut-down of inverter	<i>0.25</i> 0.0833 /15.0

TABLE 2

In the event the functions and settings described in <u>Table 1</u> and <u>Table 2</u> cannot or will: not be so set, DNCP reserves the right to require Direct Pilot Wire Tripping be installed at the Customer's expense as described previously in this correspondence.

In the advent of changes in IEEE guidelines for interconnection of Distributed Generation (DG) system and/or changes in system condition (i.e. penetration level of DG on that part of the system), DNCP reserves the right to re-evaluate the protection application and require upgrade(s) as it deems necessary at the DNCP and/or the customer end. Any upgrades necessary will be assigned according to how the changes impact the customers' generation and interconnection to the grid.

Since the installation of the ALR at the PCC and the associated relaying and communications is provided at the customer's expense and have associated engineering, equipment acquisition and installation lead-time, we would need to work out all of those details to coordinate with the planned interconnection. Please note that the customer will not be allowed to interconnect until the recloser and all the appropriate relaying is installed, tested and fully functional.

Finally, please send us details concerning the customer's actual NGR and step-up transformer specifications (i.e.: NGR size, Transformer impedance and load losses, etc.) as soon as possible, along with confirmation of the actual inverter model numbers selected for installation.

Interconnection Agreement

Jominion

Utility's Description of its Upgrades

Distribution Upgrades for 5 MW of Generation

- Install three (3), 34.5kV, 175/300:1 Potential Transformers
- Install three (3), 14.4kV, SMD-20 fuses and three (3), 22kV, 12A current limiting fuses.
- All conductor, conduit, control cable, foundations and grounding material as per engineering standards
- One (1), 3 Phase Potential MU Box
- One (1) Single SEL 351S Circuit Panel
- Retire relay cabinet on CB

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Total cost for all distribution upgrades equals \$ 118,390.00 to be included in Dominions Winfall conversion project.

These, upgrades are being completed during the Dominion Winfall Substation conversion from 115 KV to 230 KV and it is anticipated they will be completed sometime late summer or early fall. Dominion will bear the cost for these unless for some unseen reason they are not completed before Solon wishes to export energy. This work must be completed before Solon can export energy.

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Interconnection Agreement



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EXHIBIT B General Terms and Conditions

I - Assignments

Operator agrees not to assign this Agreement without the prior written consent of Dominion North Carolina Power. Dominion North Carolina Power may withhold such consent if it determines, in its sole discretion that such assignment would not be in the best interests of Dominion North Carolina Power or its customers. Any attempted assignment that Dominion North Carolina Power has not approved in writing shall be null and void and ineffective for all purposes. In the event of assignment by Operator, Operator shall pay Company within thirty (30) days of the effective date of the assignment an amount equal to the actual costs incurred by Company in connection with such assignment up to a maximum amount of \$10,000 per assignment; provided, however, assignment of this Agreement by Operator in connection with an initial financing arrangement which is finalized and for which consent of Company is requested within nine months of the Effective Date of this Agreement shall not be subject to the payment requirement provided herein.

II - Indemnity

Operator shall indemnify and save harmless and, if requested by Dominion North Carolina Power, defend Dominion North Carolina Power, its officers, directors and employees from and against any and all losses and claims or demands for damages to real property or tangible personal property (including the property of Dominion North Carolina Power) and injury or death to persons arising out of, resulting from, or in any manner caused by the presence, operation or maintenance of any part of Operator's Facility; provided, however, that nothing herein shall be construed as requiring Operator to indemnify Dominion North Carolina Power for any injuries, deaths or damages caused by the sole negligence of Dominion North Carolina Power. Operator agrees to provide Dominion North Carolina Power written evidence of liability insurance coverage, which is specifically and solely for the Facility, prior to the operation of the Facility. Operator agrees to have Dominion North Carolina Power named as an additional insured, and shall keep such coverage current throughout the term of this Agreement.

III - QF Certification

Operator represents and warrants that its Facility meets the Qualifying Facility requirements established as of the Effective Date of this Agreement by the Federal Energy Regulatory Commission's rules (18 Code of Federal Regulations Part 292), and that it will continue to meet those requirements necessary to remain a Qualifying Facility throughout the term of this Agreement. [Dominion North Carolina Power may require "FERC" QF Certification by adding the following: "Operator agrees to obtain, at Operator's expense, a certification as a "QF" from the Federal Energy Regulatory Commission, in accordance with 18 C.F.R. § 292.207 (b)."] Operator agrees to provide copies, at the time of submittal, of all correspondence and filings with the Federal Energy Regulatory Commission relating to obtaining certification of the Facility as a "QF". Operator will submit prior to delivery of electrical output from the Facility to

Feb 27 2015

Dominion North Carolina Power evidence of Qualifying Facility certification. After the Commercial Operations Date, if requested by Dominion North Carolina Power prior to March 1 of any year, Operator agrees to provide July 1 of the same year to Dominion North Carolina Power for the preceding year sufficient for Dominion North Carolina Power to determine the Operator's continuing compliance with its QF requirements, including but not limited to:

(a) All information required by FERC Form 556.

(b) Copy of the Facility's QF Certification and any subsequent revisions or amendments,

(c) Provide a copy of any contract executed with a thermal host.

(d) Identification of the amount of each type of fuel used per month and average heating value for each type of fuel, which will be used to determine the Total Energy Input. These values should be verifiable by auditing supporting documentation.

(e) Identification of each of the QF's useful thermal output(s) for each month, including temperature, pressure, amount of thermal output delivered, temperature and amount of condensate returned (if applicable) and the conversion to Btus. These values should be verifiable by auditing supporting documentation.

(f) Identification of the QF's useful power output for each month. These values should be verifiable by auditing supporting documentation.

(g) Provide drawings, heat balance diagrams and a sufficiently detailed narrative describing the delivery of useful thermal output including the location, description, and calibration data for all metering equipment used for QF calculations.

(h) Provide any other information which the QF believes will facilitate Dominion North Carolina Power's monitoring of the QF requirements.

(i) Dominion North Carolina Power may request additional information, as needed, to monitor the QF requirements.

IV - Consequential Damages

In no event shall either Party be liable to the other for any special, indirect, incidental or consequential damages whatsoever, except that the foregoing shall not apply to any promises of indemnity or obligations to reimburse the Parties expressly set forth in this Agreement.

V - Amendments, Waivers, Severability and Headings

This Agreement, including the appendices thereto, can be amended only by agreement between the Parties in writing. The failure of either Party to insist in any one or more instances upon strict performance of any provisions of this Agreement, or to take advantage of any of its rights hereunder, shall not be construed as a waiver of any such provisions or the relinquishment of any such right or any other right hereunder. In the event any provision of this Agreement, or any part or portion thereof, shall be held to be invalid, void or otherwise unenforceable, the obligations of the Parties shall be deemed to be reduced only as much as may be required to remove the impediment. The headings contained in this Agreement are used solely for convenience and do not constitute a part of the Agreement between the Parties hereto, nor should they be used to aid in any manner in the construction of this Agreement.

VI - Compliance with Laws

Operator covenants that it shall comply with all applicable provisions of Executive Order 11246, as amended; § 503 of the Rehabilitation Act of 1973, as amended; § 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, as amended; and implementing regulations set forth in 41 C.F.R. §§ 60.1, 60-250, and 60-741 and the applicable provisions relating to the utilization of small minority business concerns as set forth in 15 U.S.C. § 637, as amended. Operator agrees that the equal opportunity clause set forth in 41 C.F.R. § 60-1.4 and the equal opportunity clauses set forth in 41 C.F.R. § 250.5 and 41 C.F.R. 60-§741.5 and the clauses relating to the utilization of small and minority business concerns set forth in 15 U.S.C. § 637(d) (3) and 48 C.F.R. § 52-219.9 are hereby incorporated by reference and made a part of this Agreement. If this Agreement has a value of more than \$500,000, Operator shall adopt and comply with a small business and small disadvantaged business subcontracting plan which shall conform to the requirements set forth in 15 U.S.C. § 637(d)(6). The provisions of this section shall apply to Operator only to the extent that:

(a) such provisions are required of Operator under existing law,

(b) Operator is not otherwise exempt from said provisions and

(c) Compliance with said provisions is consistent with and not violative of 42 U.S.C. § 2000 et seq., 42 U.S.C. § 1981 et seq., or other acts of Congress.

VII - Interconnection and Operation

Operator shall be responsible for the design, installation, and operation of its Facility. Operator shall be responsible for obtaining an Interconnection Agreement. Interconnection guidelines and agreement requirements are set forth in Exhibit A of this Agreement.

Operator shall: (a) maintain the Facility and the Interconnection Facilities on Operator's side of the Interconnection Point, except Dominion North Carolina Power-owned Interconnection Facilities, in conformance with all applicable laws and regulations and in accordance with operating procedures; (b) obtain any governmental authorizations and permits required for the construction and operation thereof and keep all such permits and authorizations current and in effect; and (c) manage the Facility in a safe and prudent manner. If at any time

Operator does not hold such authorizations and permits, Dominion North Carolina Power may refuse to accept deliveries of power hereunder.

Dominion North Carolina Power may enter Operator's premises (a) to inspect Operator's protective devices at any reasonable time; (b) to read or test meters and metering equipment; and (c) to disconnect, without notice, the Facility if, in Dominion North Carolina Power's opinion, a hazardous condition exists and such immediate action is necessary to protect persons, or Dominion North Carolina Power facilities or other customers' facilities from damage or interference caused by Operator's Facility or lack of properly operating protective devices. Dominion North Carolina Power will endeavor to notify Operator as quickly as practicable if disconnection occurs as provided in (c) above. Any inspection of Operator's protective devices shall not impose on Dominion North Carolina Power any liabilities with respect to the operation, safety or maintenance of such devices.

Operator shall not operate the Facility in parallel with Dominion North Carolina Power's system prior to (a) an inspection of the installed Interconnection Facilities by an authorized Dominion North Carolina Power representative and (b) receiving written authorization from an authorized Dominion North Carolina Power representative to begin parallel operation.

VIII - Metering

Dominion North Carolina Power will meter all electrical output delivered from the Facility on the high voltage side of the step up transformer.

Operator agrees to pay an administrative charge to Dominion North Carolina Power to reflect all reasonable costs incurred by Dominion North Carolina Power for meter reading and billing, also referred to as metering charges. The monthly meter reading and billing charge shall change from time to time when the NCUC approves a different charge in Schedule 19-FP.

In addition, Operator agrees to pay any fees required to provide and maintain leased telephone lines required for meter reading by Dominion North Carolina Power.

IX - Billing and Payment

Dominion North Carolina Power shall read the meter in accordance with its normal meter reading schedule. Within twenty-eight (28) days thereafter, Dominion North Carolina Power shall send Operator payment for energy and Contracted Capacity delivered. At Dominion North Carolina Power's option, (i) Dominion North Carolina Power may make such payments net of the monthly metering charges, Interconnection Facilities charges, and charges for sales of electricity to the Operator, or (ii) Dominion North Carolina Power may invoice Operator for such charges separately. Payment by Dominion North Carolina Power shall include verification showing the billing month's ending meter reading, on-peak and off-peak kWh, and the amount paid. If in any month the monthly metering and Interconnection Facilities charges are in excess of any payments due Operator, Dominion North Carolina Power shall bill Operator for the difference and Operator shall make such payment within 28 days of the invoice date. Failure by Operator to make such payments may result in disconnection of the Facility. In no event shall such disconnection relieve Operator of its obligation to pay monthly metering charges and Interconnection Facilities charges under this Agreement.

In the event that any data required for billing purposes hereunder are unavailable when required for such billing, the unavailable data shall be estimated by Dominion North Carolina Power, based upon historical data. Such billing shall be subject to any required adjustment in a subsequent billing month.

Operator agrees that Dominion North Carolina Power shall be entitled to withhold sufficient amounts due pursuant to this Agreement to offset (a) any damages to Dominion North Carolina Power resulting from any breach of this Agreement by Operator, and (b) any other amounts Operator owes Dominion North Carolina Power, including amounts arising from sales of electricity by Dominion North Carolina Power to Operator, metering charges and Interconnection Facilities charges.

In no event shall Dominion North Carolina Power be liable to Operator for any Contracted Capacity payments in excess of the amounts contracted for herein, regardless of the ultimate length of this Agreement or revisions to Schedule 19-FP or successor schedules. Operator hereby agrees to accept the Contracted Capacity payments as set forth herein as it's sole and complete compensation for delivery of Contracted Capacity to Dominion North Carolina Power.

X - Force Majeure

Neither Party shall be considered in default under this Agreement or responsible to the other Party in tort, strict liability, contract or other legal theory for damages of any description for any interruption or failure of service or deficiency in the quality or quantity of service or any other failure to perform any of its obligations hereunder to the extent such failure occurs without fault or negligence on the part of that Party and is caused by factors beyond that Party's reasonable control, which by the exercise of reasonable diligence that Party is unable to prevent, avoid, mitigate or overcome, including without limitation storm, flood, lightning, earthquake, explosion, equipment failure, civil disturbance, labor dispute, act of God or public enemy, action or inaction of a court or public authority, fire, sabotage, war, explosion, curtailments, unscheduled withdrawal of facilities from operation for maintenance or repair or any other cause of similar nature beyond the reasonable control of that Party (any such event, "Force Majeure"). Solely economic hardship of either Party shall not constitute Force Majeure under this Agreement. Nor shall anything contained in this paragraph or elsewhere in this Agreement excuse Operator or Dominion North Carolina Power from strict compliance with the obligation of the Parties to comply with the terms of Article IX of this Exhibit B relating to timely payments.

Each Party shall have the obligation to operate in accordance with Good Utility Practice (as defined below) at all times and to use due diligence to overcome and remove any cause of failure to perform.

Feb 27 2015

If a Party relies on the occurrence of an event of Force Majeure described above as a basis for being excused from performance of its obligations under this Agreement, then the Party relying on the Force Majeure event shall:

a) Provide within forty-eight (48) hours written notice of such Force Majeure event or potential Force Majeure to the other Party, giving an estimate of its expected duration and the probable impact on the performance of its obligations hereunder;

b) Exercise all reasonable efforts to continue to perform its obligations under this Agreement;

c) Expeditiously take action to correct or cure the Force Majeure event excusing performance; provided, however, that settlement of strikes or other labor disputes will be completely within the sole discretion of the Party affected by such strike or labor dispute;

d) Exercise all reasonable efforts to mitigate or limit damages to the other Party; and

e) Provide prompt notice to the other Party of the cessation of the Force Majeure event giving rise to its excuse from performance. All performance obligations hereunder shall be extended by a period equal to the term of the resultant delay.

If a Party responding to a Force Majeure event has the ability to obtain, for additional expenditures, expedited material deliveries or labor production which would allow a response to the event in a manner that is above and beyond Good Utility Practice, and such a response could shorten the duration of the Force Majeure event, the Party responding to the event may, at its discretion, present the other Party with the option of funding the expenditures for expediting material deliveries or labor production in an effort to reduce the duration of the event and economic hardship. Each such opportunity will be negotiated on a case-by-case basis by the Parties.

For purposes of this Agreement, "Good Utility Practice" shall mean any of the applicable practices, methods, standards, guides or acts: required by any governmental authority, regional or national reliability council, or national trade organization, including NERC, SERC, or the successor of any of them, as they may be amended from time to time whether or not the Party whose conduct is at issue is a member thereof; otherwise engaged in or approved by a significant portion of the electric utility industry during the relevant time period which in the exercise of reasonable judgment in light of the facts known or that should have been known at the time a decision was made, could have been expected to accomplish the desired result in a manner consistent with law, regulation, good business practices, generation, transmission and distribution reliability, safety, environmental protection, economy and expediency. Good Utility Practice is intended to be acceptable practices, methods, or acts generally accepted in the region, or any other acts or practices as are reasonably necessary to maintain the reliability of the Transmission System (as defined in the Interconnection Agreement), or of the Facility, and is not intended to be limited to the optimum practices, methods, or acts to the exclusion of all others.

Feb 27 2015

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

I. APPLICABILITY AND AVAILABILITY

This schedule is applicable to any qualifying Cogenerator or Small Power Producer (Qualifying Facility) which desires to deliver all of its net electrical output to the Company, has either (1) generating facilities designated as new capacity as defined by 18 C.F.R. § 292.304(b)(1), or (2) hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), and enters into an agreement for the sale of net electrical output to the Company (Agreement).

Unless otherwise provided by a Commission order setting forth different availability dates, this schedule is available to any Qualifying Facility (otherwise eligible pursuant to the terms hereof) that by November 1, 2014 or the date upon which proposed rates are filed in Docket No. E-100 Sub 140, if later than November 1, 2014, (a) has obtained a certificate of public convenience and necessity for its facility from the Commission or filed a report of proposed construction with the Commission pursuant to Commission Rule 8-65, and (b) has indicated to the Company in writing that it is committed to selling the output of the facility to the Company pursuant to the terms of this schedule.

Where the Qualifying Facility (QF) elects to be compensated for firm deliveries in accordance with this schedule, the amount of capacity under contract and the initial term of contract shall be limited as follows:

- A. Where the QF operates hydroelectric generating facilities that meet the criteria of being owned or operated by a small power producer as defined in G.S. 62-3(27a), or where the QF operates non-hydroelectric QFs fueled by trash or methane derived from landfills, hog waste, poultry waste, solar, wind, and non-animal forms of biomass, the amount of capacity subject to compensation shall be no greater than 5,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 5,000 kWh. The initial term of contract for such a QF shall be for a period of 5, 10, or 15 years, at the option of the QF.
- B. Where the QF is not defined under Paragraph I.A., the amount of capacity subject to compensation shall be no greater than 3,000 kW, and the amount of energy purchased during a given hour at rates applicable to firm deliveries shall be no greater than 3,000 kWh. The initial term of contract for such a QF shall be for a period of 5 years.

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

I. APPLICABILITY AND AVAILABILITY (Continued)

Where the QF elects to be compensated for firm or non-firm deliveries in accordance with this schedule, the QF must begin deliveries to the Company within thirty months of February 21, 2014 to retain eligibility for the rates contained in this schedule; provided, however, a QF may be allowed additional time to begin deliveries of power to the Company if the QF facilities in question are nearly complete at the end of such thirty month period and the QF is able to demonstrate that it is making a good faith effort to complete its project in a timely manner. Where the QF elects an initial contract term of 10 or more years, such contract may be renewed for subsequent term(s), at the Company's option, based on substantially the same terms and provisions and at a rate either (1) mutually agreed upon by the parties negotiating in good faith and taking into consideration the Company's then avoided cost rates and other relevant factors or (2) set by arbitration.

This schedule is not applicable to a QF owned by a developer, or affiliate of a developer, who sells power to the Company from another facility located within one-half mile unless: (1) each facility provides thermal energy to different, unaffiliated hosts; (2) each facility provides thermal energy to the same host, and the host has multiple operations with distinctly different or separate thermal needs; or (3) each facility utilizes a renewable resource which may be subject to geographic siting limitations, such as hydroelectric, solar, or wind power facilities.

II. MONTHLY BILLING TO THE QF

All sales to the QF will be in accordance with any applicable filed rate schedule. In addition, where the QF contracts for sales to the Company, the QF will be billed a monthly charge equal to one of the following to cover the cost of meter reading and processing:

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

II. MONTHLY BILLING TO THE QF (Continued)

Metering required	<u>Charge</u>
One non-time-differentiated meter	\$17.24
One time-differentiated meter	\$35.55
Two time-differentiated meters	\$41.16

III. DEFINITION OF ON- AND OFF-PEAK HOURS

A. For Option A Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight March 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 10:00 am and 10:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight March 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm., plus 4:00 p.m. through 9:00 p.m., Monday through Friday, excluding holidays considered as off-peak.

(Continued)

Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

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Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

III. DEFINITION OF ON- AND OFF-PEAK HOURS (Continued)

B. For Option B Rates the On-Peak Hours are:

Summer

(i) For the periods beginning at 12:00 midnight May 31 and ending at 12:00 midnight September 30:

The on-peak hours are defined as the hours between 1:00 pm and 9:00 pm., Monday through Friday, excluding holidays considered as off-peak.

Non-Summer

(ii) For the periods beginning at 12:00 midnight September 30 and ending at 12:00 midnight May 31:

The on-peak hours are defined as those hours between 6:00 am and 1:00 pm. Monday through Friday, excluding holidays considered as off-peak.

C. Off-Peak Hours:

The off-peak hours in any month are defined as all hours not specified above as on-peak hours. All hours for the following holidays will be considered as off-peak: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the day after Thanksgiving, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

(Continued)

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Feb 27 2015

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IV. CONTRACT OPTIONS FOR DESIGNATING MODE OF OPERATION

The QF shall designate under contract its Mode of Operation from the following options, each of which determines the Company's method of payment.

- A. The QF may contract for the delivery of energy to the Company without reimbursement, designated as the Non-reimbursement Mode of Operation; or,
- B. The QF may contract for the delivery of non-firm energy to the Company (no payment for capacity). This option includes OFs that elect to contract to deliver non-firm energy to the Company on an as-available basis. Where the QF's generation facilities have an aggregate nameplate rating of less the OF may designate the Non-firm. 100 kW or Non-time-differentiated Mode of Operation. Regardless of nameplate rating the OF may designate the Non-firm. Time-differentiated Mode of Operation,
- C. The QF may contract for the delivery of firm energy and capacity to the Company. The level of capacity which the QF contracts to sell to the Company shall not exceed 5,000 kW, where the QF is defined under Paragraph I.A., or 3,000 kW otherwise. This capacity level, in kW, shall be referred to as the Contracted Capacity. When the QF elects to sell firm energy and capacity, the QF shall designate the Firm Mode of Operation.

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY

The QF may contract to receive payment for energy at rates to be determined with each revision of this schedule. These rates will be based upon the QF's Mode of Operation as described below. There are no capacity payments for the QFs that contract for non-firm energy.

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

V. PAYMENT FOR COMPANY PURCHASES OF NON-FIRM ENERGY (Continued)

- A. Non-reimbursement Mode of Operation. Where the QF designates the Non-Reimbursement Mode of Operation, no payment will be made for energy delivered.
- B. Non-time-differentiated Mode of Operation. Where the QF's generation facilities have an aggregate nameplate rating of 100 kW or less and the QF designates the Non-Firm, Non-time-differentiated Mode of Operation, the following rates in cents per kWh are applicable:

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C. Time-differentiated Mode of Operation. Where the QF designates the Time-differentiated Mode of Operation, the following On- and Off-peak rates in cents per kWh are applicable:

On-peak	4.541
Off-peak	3.455

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except that upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY

QFs designating the Firm Mode of Operation will be eligible to receive purchase payments for the delivery of firm energy by the QF to the Company. The QF may contract to receive payments for firm energy based on A or B, below. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

The QF may contract to receive payment for firm time-differentiated energy at rates to be determined with each revision of this schedule (Variable Rate). These rates in cents per kWh, which reflect the Company's estimated avoided energy cost for delivery of firm energy during 2013 or 2014, are as shown in the price tables below:

A. Option A: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

Fixed Long-Term Rate

	Variable Rate	5-Year	10-Year	15-Year
On-Peak (¢/kWh)	4.541	5.055	5.526	5.813
Off-Peak (¢/kWh)	3.455	3.964	4.388	4.661

B. Option B: The QF may contract to receive energy purchase payments for the delivery of firm energy based upon fixed prices, as shown below in cents per kWh:

(Continued)

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VI. PAYMENT FOR COMPANY PURCHASES OF FIRM ENERGY (Continued)

	Variable Rate	5-Year	10-Year	15-Year
On-Peak (¢/kWh)	4.663	5.194	5.675	5.962
Off-Peak (¢/kWh)	3.614	4.119	4.549	4.824

Fixed Long-Term Rate

Any energy delivered above 100% up to 105% of QF's Contracted Capacity in any hour will be purchased at the then applicable non-firm energy rates under Schedule 19-FP. There will be no reimbursement for any energy delivered above 105% of QF's Contracted Capacity.

All energy purchase rates will be further increased by 3.0% to account for line losses avoided by the Company, except upon the effective date of any Schedule 19 that is subsequently amended and approved by the Commission, the line loss percentage applied shall be the percentage stated in the then-current Schedule 19. In lieu of 3.0% or the line loss percentage stated in the then-current Schedule 19, the QF may request that a site specific line loss percentage be determined with the QF bearing the cost of the study required.

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY

Company purchases of capacity are applicable only where the QF elects the Firm Mode of Operation. Capacity payments are applicable during on-peak hours only. Such QFs shall receive capacity purchase payments based on the applicable levelized capacity purchase price below, in cents per kWh, corresponding to the contract length in years. Contract terms for 10 or 15 years are available only where the QF is defined under Paragraph I.A.

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Option A:

For hydroelectric facilities with no storage capability and no other type of generation:

		Capacity Price	
	<u>5-Year</u>	<u>10-Year 15-Year</u>	
On-Peak (¢/kWh) Summer	5,895	6.095 6.263	
On-Peak (¢/kWh) Non-summer	3.930	4.063 4.175	
For all other facilities:			
		Capacity Price	
	5-Year	<u>10-Year 15-Year</u>	
On-Peak (¢/kWh) Summer	3.537	3.657 3.758	
On-Peak (¢/kWh) Non-summer	2.358	2.438 2.505	

Option B:

For hydroelectric facilities with no storage capability and no other type of generation:

	Capacity Price			
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 13.524 5.214	<u>10-Year</u> <u>15-Year</u> 13.982 14.368 5.390 5.539	•	
For all other facilities:		Capacity Price		
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 8.115 3.128	10-Year15-Year8.3898.6213.2343.323		

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

A

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

VII. PAYMENT FOR COMPANY PURCHASES OF CAPACITY (Continued)

Payments will be made to the QF by applying the appropriate levelized capacity purchase price above to all kWh delivered to the Company during each on-peak hour, up to the 100% of the Contracted Capacity in such hour. There will be no compensation for capacity in excess of the QF's Contracted Capacity in an hour. This capacity price will be in accordance with the length of rate term for capacity sales so established in the contract.

VIII. PROVISIONS FOR COMPANY PURCHASE OF THE QF GENERATION

- A. The QF shall own and be fully responsible for the costs and performance of the QF's:
 - 1. Generating facility in accordance with all applicable laws and governmental agencies having jurisdiction;
 - 2. Control and protective devices as required by the Company on the QF's side of the meter.
- B. The sale of power to the Company by a QF at avoided cost rates pursuant to this Schedule 19-FP does not convey ownership to the Company of the renewable energy credits or green tags associated with the QF facility.
- C. Upon request by the Company, the Cogenerator or Small Power Producer must demonstrate that the facility is a Qualifying Facility as defined by PURPA.
- D. Interconnection procedures for the QF's generation interconnection are provided through the Internet at the Company's website; <u>http://www.dom.com/dominion-north-carolina-power/customer-service/rat</u> es-and-tariffs/pdf/term24.pdf.

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.

2015

Virginia Electric and Power Company

Schedule 19 - FP POWER PURCHASES FROM COGENERATION AND SMALL POWER PRODUCTION QUALIFYING FACILITIES

(Continued)

IX. MODIFICATION OF RATES AND OTHER PROVISIONS HEREUNDER

The provisions of this schedule, including the rates for purchase of energy and Contracted Capacity by the Company, are subject to modification at any time in the manner prescribed by law, and when so modified, shall supersede the rates and provisions hereof. However, payments to QFs with contracts for a specified term at payments established at the time the obligation is incurred shall remain at the payment levels established in their contract with the exception of the line loss percentage applied which shall be the percentage stated in the then-current Schedule 19.

If the QF terminates its contract to provide Contracted Capacity and energy to the Company prior to the expiration of the contract term, the QF shall, in addition to other liabilities, be liable to the Company for excess capacity and energy payments.

Such excess payments will be calculated by taking the difference between (1) the total capacity and energy payments already made by the Company to the QF and (2) capacity and energy payments calculated based on the levelized capacity and energy purchase price found in Paragraph VI and VII corresponding to the highest term option completed by the QF. These excess payments shall also include interest, from the time such excess payments were made, compounded annually at the rate equal to the Company's most current issue of long-term debt at the time of the contract's effective date.

X. TERM OF CONTRACT

The term of contract shall be such as may be mutually agreed upon but for not less than one year.

Filed 10-30-14 Electric-North Carolina Amending Filing Effective For Usage On and After 03-28-14. This Filing Effective For Usage On and After 03-28-14.
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EXHIBIT C

Exhibit C is a copy of Schedule 19-FP.

EXHIBIT D

Exhibit D is a map and written description identifying the specific location of the Facility and is provided by the Operator.

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GKS:

The official address of the site is 932 Belvidere Rd, Belvidere, NC 27919, starting at the local town of Belvidere, North Carolina, proceed south on Perrys Bridge Road towards NC-37 N. Turn left onto NC-37 S, continuing for approximately 2.6 miles. The site will be located on the left hand side.

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FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

1a Full name of app SolNCPower2,	icant (legal entity on whose behalf qualif LLC	ying facility statu	s is sought for this facility)
1b Applicant street a 130 Roberts S	address treet, Asheville, NC 28801		
1c City Asheville		1d State/prov North Car	nce rolina
1e Postal code 28801	1f Country (if not United States)	1	1g Telephone number 828-350-3993
1h Has the instant fa	cility ever previously been certified as a C	QF? Yes ⊠ N	lo []
1i If yes, provide the	docket number of the last known QF filin	g pertaining to t	nis facility: QF13 - 618 - 000
1j Under which cert	fication process is the applicant making t	his filing?	
Notice of self-c	ertification / v) f	Application for Co ee; see "Filing Fe	mmission certification (requires filing " section on page 3)
Note: a notice of se QF status. A not notice of self-ce section on page	Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 3 for more information.		
1k What type(s) of C ⊠ Qualifying sma	F status is the applicant seeking for its fac	cility? (check all th Qualifying cogene	nat apply) eration facility status
 What is the purpose ☑ Original certific ☑ Change(s) to a (identify type(s) 	use and expected effective date(s) of this f nation; facility expected to be installed by previously certified facility to be effective s) of change(s) below, and describe chang	iling? a on Je(s) in the Miscel	nd to begin operation on
🔲 Name chan	ge and/or other administrative change(s)		
\Box Change in c	ownership		······································
Supplement or (Change(s) affecting plant equipment, fuel use, power production capacity and/or cogeneration thermal output		
(describe the su	pplement or correction in the Miscellane	ous section starti	ng on page 19)
1m If any of the follottic to the extent pos	owing three statements is true, check the sible, explaining any special circumstance	box(es) that desc es in the Miscella	ribe your situation and complete the for neous section starting on page 19.
The instant fa previously gr orders in the	cility complies with the Commission's QF anted by the Commission in an order dat Miscellaneous section starting on page 19	requirements by ed 9)	virtue of a waiver of certain regulations (specify any other relevant waiver
The instant fa	cility would comply with the Commissior with this application is granted	n's QF requiremer	its if a petition for waiver submitted
The instant fa	cility complies with the Commission's rec of unique or innovative technologies not	ulations, but has contemplated b	special circumstances, such as the y the structure of this form, that make

COP√

FEI	RC Form 556				Page 6 - All Facilities	;
	2a Name of contact person			2b Telephone	number] {
	Dale Freudenberger			828-350-3	993	
mation	 2c Which of the following describes t Applicant (self) Employee of a company affiliate Lawyer, consultant, or other report 	the contact person's rela oyee, owner or partner o ed with the applicant au presentative authorized	ationship to the ap of applicant authori athorized to repres to represent the appresent the appresen	plicant? (check or zed to represent ent the applicant oplicant on this m	ne) the applicant on this matter natter	
nforn	2d Company or organization name (SolNCPower2, LLC	if applicant is an individ	ual, check here and	d skip to line 2e) [
ontact li	2e Street address (if same as Applicant, check here and skip to line 3a)					
0	2f City		2g State/prov	ince		
	2h Postal code	2i Country (if not Unite	ed States)	nananari (nanye he		-
uo	3a Facility name GKS Solar Farm	GKS Solar Farm			-	
d Locati	3b Street address (if a street address	does not exist for the fa	acility, check here a	nd skip to line 3c		C
fication and	3c Geographic coordinates: If you in then you must specify the latitud the following formula to convert degrees + (minutes/60) + (second provided a street address for you	ndicated that no street a le and longitude coordir to decimal degrees fron ds/3600). See the "Geo r facility in line 3b, then	ddress exists for yon nates of the facility n degrees, minutes graphic Coordinat specifying the geo	our facility by cheo in degrees (to thr and seconds: de es" section on pag graphic coordina	cking the box in line 3b, ree decimal places). Use cimal degrees = ge 4 for help. If you tes below is optional.	
denti	Longitude 🗌 East (+) 76	. 301 degrees	Latitude	∑ North (+) □ South (-)	36.150 degrees	
ility le	3d City (if unincorporated, check here Belivdere	re and enter nearest city	A) A 3e State/p North Ca	rovince rolina		
Fac	3f County (or check here for indeper Perquimans	ndent city)	3g Country (if not	United States)	<u> </u>	
	Identify the electric utilities that are c	ontemplated to transac	t with the facility.			1
lities	4a Identify utility interconnecting with the facility Dominion Power (DNCP)			-		
ig Uti	4b Identify utilities providing wheeli	ing service or check here	e if none 🔀			
nsactin	4c Identify utilities purchasing the u Dominion Power (DNCP)	seful electric power out	put or check here i	fnone		
Trai	4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible pow service or check here if none Dominion Power (DNCP)				r interruptible power	0

FERC Form 556

	rect owners with the largest equity interest in the lacinty.	Electric holo	utility or ding	lf Yes, % equity
	Full legal names of direct owners	com	pany	interest
1) <u>SolN</u>	CPower2, LLC	Yes 🗌	No 🔀	
2)		Yes 🗌	No 🗌	
3)		Yes 🗌	No 🗌	
4)		Yes 🗌	No 🗌	
5)		Yes 🗌	No 🗌	. <u></u>
6)		Yes 🗌	No 🗌	
7)		Yes 🗌	No 🗌	<u> </u>
8)		Yes 🗌	No 🗌	s
9)		Yes 🗌	No 🗌	
10)		Yes 🗌	No 🗌	9
5b Upstre of the define 1262(8 equity	heck here and continue in the Miscellaneous section starting on page 19 eam (i.e., indirect) ownership as of effective date or operation date: Ident facility that both (1) hold at least 10 percent equity interest in the facility d in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding 3) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). interest in the facility held by such owners. (Note that, because upstrear	if additional spa ify all upstream (, and (2) are elect companies, as d Also provide the m owners may be	ce is need i.e., indire tric utilitie efined in s e percenta e subsidia	ed ct) owners s, as section ige of ries of one
5b Upstre of the define 1262(8 equity anothe Check	heck here and continue in the Miscellaneous section starting on page 19 eam (i.e., indirect) ownership as of effective date or operation date: Ident facility that both (1) hold at least 10 percent equity interest in the facility ed in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding 3) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). interest in the facility held by such owners. (Note that, because upstream er, total percent equity interest reported may exceed 100 percent.) here if no such upstream owners exist.	if additional span ify all upstream (, and (2) are elect companies, as d Also provide the m owners may be	ce is need i.e., indire tric utilitie efined in e percenta e subsidia	ed ct) owners s, as section ige of ries of one % equity
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FEF	FERC Form 556 Page 8 - All Facilities					
	6a Describe the primary energy input: (check one main category and, if applicable, one subcategory)					
	🗌 Biomass (specify)	🔀 Renewable resources (specify)	Geothermal			
	🔲 Landfill gas	Hydro power - river	Fossil fuel (specify)			
	🔲 Manure digester gas	🔲 Hydro power - tidal	🔲 Coal (not waste)			
	Municipal solid waste	Hydro power - wave	Fuel oil/diesel			
	Sewage digester gas	🛛 Solar - photovoltaic	Natural gas (not waste)			
	🔲 Wood	🔲 Solar - thermal	Other fossil fuel			
	🔲 Other biomass (describe on pag	e 19) 🔲 Wind	(describe on page 19)			
	Waste (specify type below in line 6b)	Other renewable resource (describe on page 19)	Other (describe on page 19)			
	6b If you specified "waste" as the primary energy input in line 6a, indicate the type of waste fuel used: (check one)					
	Waste fuel listed in 18 C.F.R. § 292.202(b) (specify one of the following)					
	Anthracite culm produced price	or to July 23, 1985				
	Anthracite refuse that has an a a a a a a a sh content of 45 percent or m	iverage heat content of 6,000 Btu or les nore	ss per pound and has an average			
	Bituminous coal refuse that ha average ash content of 25 percenters of the second seco	is an average heat content of 9,500 Btu cent or more	per pound or less and has an			
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Management (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that the applicant shows that the latter coal is an extension of that determined by BLM to be waste Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by the BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste					
nergy li						
ш	Lignite produced in association with the production of montan wax and lignite that becomes exposed as a result of such a mining operation					
	Gaseous fuels (except natural gaseous fuels)	gas and synthetic gas from coal) (descr	ibe on page 19)			
	Waste natural gas from gas or C.F.R. § 2.400 for waste natura compliance with 18 C.F.R. § 2.4	oil wells (describe on page 19 how the l gas; include with your filing any mate 400)	e gas meets the requirements of 18 rials necessary to demonstrate			
	Materials that a government a	gency has certified for disposal by com	bustion (describe on page 19)			
	Heat from exothermic reaction	ns (describe on page 19)	Residual heat (describe on page 19)			
	🗌 Used rubber tires 🛛 🗍 Pl	lastic materials 🛛 🗌 Refinery of	ff-gas 🛛 🗌 Petroleum coke			
	Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)					
	6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).					
	Annual average energy Percentage of total					
	Natural gas					
	Oil-based fuels		0 %			
Coal 0 8tu/h 0 %						

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5,000.0 kW

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Feb 27 2015

	ruges rurruemees
Indicate the maximum gross and maximum net electric power production capacity of the facility at t delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/ lines 7b through 7e are negligible, enter zero for those lines.	the point(s) of 'or losses identified in
7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	6,570 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your	
reported parasitic station power.	o kw

	0
7c Electrical losses in interconnection transformers	
	685 kW
7d Electrical losses in AC/DC conversion equipment, if any	
	200 kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection	
with the utility	685 kW
7f Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	
	1,570.0 kW
7g Maximum net power production capacity = 7a - 7f	

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

The proposed generating facility is a solar photovoltaic system comprised of approximately 21,924 solar panels mounted on a ground-mounted racking system. The solar panels will produce an approximate total of 6.57 MWDC and this power will be converted through 4 inverter/ transformer stations located centrally amongst the panel racks. Collectively the solar plant will generate 5MWAC peak power. The inverter/transformer stations will be daisy chained through an underground medium voltage system with a path to the interconnection point on the property. The solar power generating station will be secured with a 6' chain link perimeter fencing and accessible by trained authorized personnel only.

Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable).

8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest.

e	Check here if no such facilities exist.	\boxtimes		
olian ons	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity
m	1)	QF		kW
nit D	2)	QF		kW
e Li	3)	QF		kW
atio Siz	Check here and continue in the	Miscellaneous section	n starting on page 19 if additional	space is needed
Certific with	 8b The Solar, Wind, Waste, and Geo exemption from the size limitations. Are you seeking exemption from the Pes (continue at line 8c belows the original notice of self-ce before December 31, 1994? Yes 	othermal Power Production 18 C.F.R. § 292.204(a size limitations in 18 ow) ertification or application No	ction Incentives Act of 1990 (Incer a) for certain facilities that were ce C.F.R. § 292.204(a) by virtue of the No (skip lines 8c through 8e on for Commission certification of	ntives Act) provides ertified prior to 1995. Incentives Act?) f the facility filed on or
	8d Did construction of the facility c	ommence on or befor	e December 31, 1999? Yes 🗌	No 🗌
	8e If you answered No in line 8d, in the facility, taking into account all fa a brief narrative explanation in the M particular, describe why construction toward completion of the facility.	dicate whether reasor ctors relevant to const Aiscellaneous section s n started so long after	able diligence was exercised towa ruction? Yes No If you starting on page 19 of the constru- the facility was certified) and the o	ard the completion of answered Yes, provide ction timeline (in diligence exercised
compliance quirements	Pursuant to 18 C.F.R. § 292.204(b), quants, for only the following purp prevention of unanticipated equipm the public health, safety, or welfare, used for these purposes may not exc period beginning with the date the	ualifying small power poses: ignition; start-unent outages; and allev which would result fro ceed 25 percent of the facility first produces e	production facilities may use fossi p; testing; flame stabilization; con viation or prevention of emergenco m electric power outages. The ar total energy input of the facility c lectric energy or any calendar yea	l fuels, in minimal trol use; alleviation or ies, directly affecting nount of fossil fuels luring the 12-month ır thereafter.
of C Re	9a Certification of compliance with	18 C.F.R. § 292.204(b)	with respect to uses of fossil fuel:	
ion (Use	Applicant certifies that the fa	acility will use fossil fue	els <i>exclusively</i> for the purposes liste	ed above.
cati Jel	9b Certification of compliance with	18 C.F.R. § 292.204(b)	with respect to amount of fossil fu	uel used annually:
Certifi with Fu	Applicant certifies that the a percent of the total energy in facility first produces electric	mount of fossil fuel us nput of the facility dur : energy or any calend	ed at the facility will not, in aggreg ing the 12-month period beginnir ar year thereafter.	gate, exceed 25 ng with the date the

27 2015

General Cogeneration

Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

Pursuant to 18 C.F.R. § 292.202(c), a cogeneration facility produces electric energy and forms of useful thermal energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes, through the sequential use of energy. Pursuant to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a toppingcycle cogeneration facility, the use of reject heat from a power production process in sufficient amounts in a thermal application or process to conform to the requirements of the operating standard contained in 18 C.F.R. § 292.205(a); or (2) for a bottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal application or process for power production. **10a** What type(s) of cogeneration technology does the facility represent? (check all that apply) Topping-cycle cogeneration Bottoming-cycle cogeneration 10b To help demonstrate the sequential operation of the cogeneration process, and to support compliance with other requirements such as the operating and efficiency standards, include with your filing a mass and heat balance diagram depicting average annual operating conditions. This diagram must include certain items and meet certain requirements, as described below. You must check next to the description of each requirement below to certify that you have complied with these requirements. Check to certify compliance with indicated requirement Requirement Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process. nformation Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation. Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values. Diagram must specify average gross electric output in kW or MW for each generator. Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power \square generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output. At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is *liquid only* (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kq*K). Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine. Diagram must specify working fluid flow conditions at delivery to and return from each thermal application. Diagram must specify working fluid flow conditions at make-up water inputs.

EPAct 2005 Requirements for Fundamental Use

	EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No
	11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No
S	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.
acilitie	11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?
n Fá	Yes (continue at line 11d below)
neratio	No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.
oger	11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?
from C	Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.
utput	No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.
О	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?
nerg	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.
of El	No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.
	11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.

Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2).

11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal	
generation plant losses and parasitic loads) expected to be used annually for industrial,	
commercial, residential or institutional purposes and not sold to an electric utility	MWh
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be	
sold to an electric utility	MWh
11i Percentage of total annual energy output expected to be used for industrial,	
commercial, residential or institutional purposes and not sold to a utility	
= 100 * 11g /(11g + 11h)	0%

11j Is the response in line 11i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. *See* Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the

relevant annual standard, taking into account expected variations in production conditions.

EPAct 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities (continued) Usefulness of Topping-Cycle Thermal Output

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.

12a Identify and describe each thermal host, and specify the annual average rate of thermal output made available to each host for each use. For hosts with multiple uses of thermal output, provide the data for each use *in separate rows*.
Average annual rate of

	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	thermal output attributable to use (net of heat contained in process return or make-up water)
1)		Select thermal host's relationship to facility	
Ľ		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
2)		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
3)		Select thermal host's use of thermal output	Btu/h
		Select thermal host's relationship to facility	
4)	\	Select thermal host's use of thermal output	Btu/h
5		Select thermal host's relationship to facility	
5)		Select thermal host's use of thermal output	Btu/h
6		Select thermal host's relationship to facility	
(0)		Select thermal host's use of thermal output	Btu/h

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Topping-Cycle Operating and Efficiency Value Calculation Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy input of natural gas and oil to the facility. To demonstrate compliance with the topping-cycle operating and/or efficiency standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below.

If you indicated in line 10a that your facility represents *both* topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13l below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system.

13a Indicate the annual average rate of useful thermal energy output made available		
to the host(s), net of any heat contained in condensate return or make-up water		Btu/h
13b Indicate the annual average rate of net electrical energy output		
		kW
13c Multiply line 13b by 3,412 to convert from kW to Btu/h		
	0	Btu/h
13d Indicate the annual average rate of mechanical energy output taken directly off		
of the shaft of a prime mover for purposes not directly related to power production		
(this value is usually zero)		hp
13e Multiply line 13d by 2,544 to convert from hp to Btu/h		Ty 74.4.
	0	Btu/h
13f Indicate the annual average rate of energy input from natural gas and oil		
		Btu/h
13a Topping-cycle operating value = $100 \times 13a / (13a + 13c + 13e)$	· · · · · · · · · · · · · · · · · · ·	
	0	%
13b Topping-cycle efficiency value = $100 * (0.5*13a + 13c + 13e) / 13f$,,,
	0	%
12: Compliance with operating standardy is the operating value shown in line 12g gr	optor than or equal to F	·0/ 7
TSI Compliance with operating standard. Is the operating value shown in line 15g gr	sater than of equal to 5	9701
Yes (complies with operating standard) No (does not comply w	ith operating standard))
13j Did installation of the facility in its current form commence on or after March 13,	1980?	
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.20	5(a)(2). Demonstrate	
compliance with the efficiency requirement by responding to line 13k or 13l, a	is applicable, below.	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13	l	
13k Compliance with efficiency standard (for low operating value): If the operating v	alue shown in line 13g	is less
than 15%, then indicate below whether the efficiency value shown in line 13h greater	than or equal to 45%:	
Yes (complies with efficiency standard) I No (does not comply w	ith efficiency standard)	1
13I Compliance with efficiency standard (for high operating value): If the operating v greater than or equal to 15%, then indicate below whether the efficiency value shown equal to 42.5%:	alue shown in line 13g in line 13h is greater th	is nan or
Yes (complies with efficiency standard) No (does not comply w	ith efficiency standard)	

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.

The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a gualifying bottomingcycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below.

14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in separate rows. Has the energy input to

Name of entity (thermal host) performing the process from

the thermal host been augmented for purposes

	which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	of increasing power production capacity? (if Yes, describe on p. 19)
1)		Select thermal host's relationship to facility	Yes No 🗍
"		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No No
2)		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes 🗆 No 🗔
		Select thermal host's process type	

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Bottoming-Cycle Operating and

Applicants for facilities representing bottoming-cycle technology and for which installation commenced on or after March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standards. Section 292.205(b) of the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard for bottoming-cycle cogeneration facilities: the useful power output of the facility must be no less than 45 percent of the energy input of natural gas and oil for supplementary firing. To demonstrate compliance with the bottoming-cycle efficiency standard (if applicable), or to demonstrate that your facility is exempt from this standard based on the date that installation of the facility began, respond to lines 15a through 15h below.

If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).

15a Did installation of the facility in its current form commence on or after March 13, 1980?
Yes Your facility is subject to the efficiency requirement of 18 C F R $\leq 292.205(h)$. Demonstrate c

15a Did installation of the facility in its current form commence on or after March 13, 1980?			
Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(with the efficiency requirement by responding to lines 15b through 15h below	p). Demonstrate compliance		
No. Your facility is exempt from the efficiency standard. Skip the rest of page 1	7.		
15b Indicate the annual average rate of net electrical energy output	- 1864-146		
	kW		
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	∩ Btu/		
15d Indicate the annual average rate of mechanical energy output taken directly off	0 0 0 0		
of the shaft of a prime mover for purposes not directly related to power production			
(this value is usually zero)	hn		
15e Multiply line 15d by 2.544 to convert from hp to Btu/h			
	0 Btu/		
15f Indicate the annual average rate of supplementary energy input from natural gas	0		
oroil	Btu/		
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f			
	0 %		
15h Compliance with efficiency standard: Indicate below whether the efficiency value than or equal to 45%:	shown in line 15g is greate		
(11a1) 01 Equal (0 4570.			

Feb 27 2015

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Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and signing at the bottom of this section. Forms with incomplete Certificates of Completeness, Accuracy and Authority will be rejected by the Secretary of the Commission.

Signer identified below certifies the following: (check all items and applicable subitems)

He or she has read the filing, including any information contained in any attached documents, such as cogeneration mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.

He or she possess full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

☐ The person on whose behalf the filing is made

An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

- An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made
- A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign
- He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

Provide your signature, address and signature date below. Rule 2005(c) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(c)) provides that persons filing their documents electronically may use typed characters representing his or her name to sign the filed documents. A person filing this document electronically should sign (by typing his or her name) in the space provided below.

Your Signature	Your address	Date
	130 Roberts Street	
Dale Freudenberger	Asheville, NC 28801	11/6/2014

Audit Notes

Commission Staff Use Only:

Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to*. You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

OFFICIAL COPY

OFFICIAL COPY Feb 27 2015

Feb 27 2015

EXHIBIT E

Exhibit E is the "Qualifying Facility" Certification to be provided by the Operator.

OR

If Facility is less than 1MW, Owner may submit the following statement as Exhibit E that the Facility qualifies as a Qualifying Facility (QF) under federal law.

Federal law exempts small power production or cogeneration facilities with net power production capacities of 1 MW or less from certain certification requirements in order to qualify as a qualifying facility ("QF" or "Qualifying Facility"). Therefore, <u>[QF Name Here]</u> submits the Facility is exempt from the certification requirements, but submits that the Facility qualifies as a Qualifying Facility under federal law set forth in the Public Utility Regulatory Policies Act of 1978 ("PURPA") (codified at 16 U.S.C. § 824a-3).

Name

Title

EXHIBIT F

Exhibit F is the Certificate of Public Convenience and Necessity to be provided by the Operator_a or evidence that no such certificate is required under North Carolina law in the form of a report of proposed construction to the Commission pursuant to Commission Rule 8-65.

APPENDIX A

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-3220, SUB 0

SolNCPower2, LLC 130 Roberts Street Asheville, North Carolina 28801

is hereby issued this

CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY PURSUANT TO G.S. 62-110.1

for a 5-MW_{AC} solar photovoltaic electric generating facility

located at

932 Belvidere Road in Belvidere, Perquimans County, North Carolina,

subject to all orders, rules, regulations and conditions as are now or may hereafter be lawfully made by the North Carolina Utilities Commission.

ISSUED BY ORDER OF THE COMMISSION.

This the <u>19th</u> day of September, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Hail L. Mount

Gail L. Mount, Chief Clerk

Feb 27 2015

STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-3220, SUB 0

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BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of Application of SoINCPower2, LLC, for a Certificate of Public Convenience and Necessity to Construct a 5-MW Solar Facility in Perguimans County, North Carolina

ORDER AMENDING CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND REGISTRATION STATEMENT

BY THE CHAIRMAN: On October 31, 2013, in Docket No. SP-2910, Sub 1, the Commission issued a certificate of public convenience and necessity (CPCN), to SoINCPower1, LLC (SoINCPower1), for construction of a 5-MW solar photovoltaic electric generating facility to be located on Belvidere Road (Highway 37) between Bagley Swamp Road to the south and Sandy Cross Road to the north in Winfall, Perquimans County, North Carolina and accepted registration of the facility as a new renewable energy facility.

On December 11, 2013, in Docket Nos. SP-2910, Sub 1 and SP-3220, Sub 0 the Commission entered an Order transferring the CPCN from SolNCPower1 to SolNCPower2, LLC (Applicant).

On August 18, 2014, the Applicant filed an amended CPCN form with the Commission requesting that the CPCN and registration statement be amended to change the contact information for the Applicant to the address of FLS Energy, Inc., 130 Roberts Street, Asheville, North Carolina 28801, and providing an updated address for the facility at 932 Belvidere Road in Belvidere, Perquimans County, North Carolina.

Based upon the foregoing and the record, the Chairman finds good cause to amend the CPCN and registration statement to reflect the above changes. Further, Appendix A hereto shall constitute the amended certificate of public convenience and necessity.

IT IS, THEREFORE, SO ORDERED.

ISSUED BY ORDER OF THE COMMISSION.

This the 19^{th} day of September, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Aail L. Mount

Gail L. Mount, Chief Clerk