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THIS AGREEMENT, effective this 10<sup>th</sup> day of November, 2015, (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 Hardison Farm Solar, LLC, a North Carolina limited liability corporation, with its principal office in 3250 Ocean Park Blvd, Ste 355 Santa Monica, California, 90405, hereinafter called "Operator", operator of the Hardison 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 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 at 19925 HWY 64 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 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.

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# Article 3: Contracted Capacity

The Facility, consisting of Solar panels, will have a combined nameplate rating of approximately 5,000 kW. 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, 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 01, 2016. The anticipated Commercial Operations Date is June 30, 2016.

#### **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 by February 21, 2016, as defined in Article 7 above, 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 event Operator fails to perform in any way, materially or nonmaterially, 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 nonperformance 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:
Hardison Farm Solar, LLC	Virginia Electric and Power Company
3250 Ocean Park Blvd	Power Contracts (3SE)
Suite 355	5000 Dominion Boulevard
Santa Monica, CA 90405	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.

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

HARDISON FARM SOLAR, LLC

By: Wiskable Title: Prosident Date: Wiskable

Mar 30 2016

# 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

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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. § 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.

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.

# EXHIBIT C

# Exhibit C is a copy of Schedule 19-FP.

Mar 30 2016

# EXHIBIT D

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

# Hardison Farm Solar, LLC – 5.0 MWac 19925 HWY 64, Williamston, Martin County, North Carolina



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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, [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, 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

Attachment 9

# Mar 30 2016

# **NORTH CAROLINA**

# **INTERCONNECTION AGREEMENT**

Hardison Farm Solar, LLC

NC14018

5.0 MW

NC Interconnection Agreement

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- 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 Cost

This Interconnection Agreement ("Agreement") is made and entered into this 8<sup>th</sup> day of September, 2015, by Virginia Electric and Power Company, doing business as Dominion North Carolina Power ("Utility"), and Hardison 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 a	and Power Company	
Attention: Mike Nester		
Address: 200 Vepco Str	eet	
City: <u>Roanoke Rapids</u>	State: NC	Zip: <u>27870</u>
Phone: (252) 308-1077	Fax: <u>(252) 308-1078</u>	
Interconnection Customer Inf	formation	
Interconnection Custome	er: <u>Hardison Farm Solar, LLC</u>	
Attention: Chris Norqual		
Address: <u>3250 Ocean P</u>	ark Boulevard, Suite 355	
City: <u>Santa Monica</u>	State: <u>CA</u>	Zip: <u>90405</u>
Phone: <u>(310) 581-6299</u>		
Interconnection Request ID No.	NC14018	

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 20 kW Inverter Process in Section 2 of the Interconnection Procedures.

**EXHIBIT A** 

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 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

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 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>

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.

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#### 1.8 Reactive Power

- 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 or the range established by the Utility that applies to all similarly situated generators in the control area. 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 ten (10) 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 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.
- 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 Right of Access

- 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 (3) Business Days after initial start-up of the unit. In addition, the Interconnection Customer shall notify the Utility at least five (5) 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 Effective Date

This Agreement shall become effective upon execution by the Parties.

#### 3.2 Term of Agreement

This Agreement shall become effective on the Effective Date and shall remain in effect for a period of ten (10) 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, including any remaining term requirements for payment of Charges that are billed under a monthly payment option as prescribed in Article 6.

3.3.5 The provisions of this article shall survive termination or expiration of this Agreement.

#### 3.4 Temporary Disconnection

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 nondiscriminatory 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 (5) Business Day 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 (5) 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.

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#### 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.
- 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, 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, ongoing operations, maintenance, repair, and replacement, shall be directly assigned to the Interconnection Customer.

#### Article 5. Cost Responsibility for Network Upgrades

5.1 Applicability

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

#### 5.2 Network Upgrades

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, on-going operations, maintenance, repair, and replacement 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 Interconnection Customer shall pay 100% of required Upgrade, Interconnection Facilities, and any other charges required by the Interconnection Agreement Milestones Appendix 4. Upon receipt of 100% of the foregoing pre-payment charges, the payment is not refundable due to cancellation of the Interconnection Request for any reason.
- 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 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 20 Business 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 20 Business Days of the final accounting report.
- 6.1.3 The Utility shall also bill the Interconnection Customer for the costs associated with operating, maintaining, repairing and replacing the Utility's System Upgrades, as set forth in Appendix 6 of this Agreement. The Utility shall bill the Interconnection Customer for the costs of providing the Utility's Interconnection Facilities including the costs 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 or additional 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 Milestones

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, except for timing for Payment or Financial Security-related requirements set forth in the milestones, which shall adhere to

# 6.3 Financial Security Arrangements

explained by the Party proposing the amendment.

Pursuant to the Interconnection Agreement Milestones Appendix 4, the Interconnection Customer shall provide the Utility a letter of credit or other financial security arrangement 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 shall be reduced on a dollar-for-dollar basis for payments made to the Utility under this Agreement during its term. In addition:

Section 5.2.4 of the Standards. 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) the delay will materially affect the schedule of another Interconnection Customer with

subordinate Queue Position, (3) attainment of the same milestone has previously been delayed, or (4) it has reason to believe that the delay in meeting the milestone is intentional or unwarranted notwithstanding the circumstances

- 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 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 Assignment
  - 7.1.1 The Interconnection Customer shall notify the Utility of the pending sale of an existing Generation Facility in writing. The Interconnection

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Customer shall provide the Utility with information regarding whether the sale is a change of ownership of the Generation Facility to a new legal entity, or a change of control of the existing legal entity.

- 7.1.2 The Interconnection Customer shall promptly notify the Utility of the final date of sale and transfer date of ownership in writing. The purchaser of the Generation Facility shall confirm to the Utility the final date of sale and transfer date of ownership in writing
- 7.1.3 This Agreement shall not survive the transfer of ownership of the Generating Facility to a new legal entity 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.
- 7.1.4 This Agreement shall survive a change of control of the Generating Facility's legal entity owner, where only the contact information in the Interconnection Agreement must be modified. The new owner must complete a new Interconnection Request and submit it to the Utility within 20 Business Days of the change of control and provide the new contact information. 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.
- 7.1.5 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.
- 7.1.6 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 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

- 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 40 five (5) Business Days from receipt of the Default notice within which to cure such Default.
- 7.6.2 If a Default is not cured as provided in this Article, 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 For an Interconnection Customer that is a non-residential customer of the Utility proposing to interconnect a Generating Facility greater than 250 kW, the required coverage shall be comprehensive general liability insurance with coverage in the amount of at least \$1,000,000 per occurrence.
  - 8.1.4 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

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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.
  - 9.2.1 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.
  - 9.2.2 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.
  - 9.2.3 All information pertaining to a project will be provided to the new owner in the case of a change of control of the existing legal entity or a change of ownership to a new legal entity.
- 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 20 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 Amendment

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 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

- 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 Multiple Counterparts

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 Severability

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 Security 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 <u>Subcontractors</u>

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.

12.11.2 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.

12.11.3 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 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, sent by first class mail, postage prepaid, or sent electronically to the person specified below:

If to the Interconnection Customer:

Interconnection Customer: <u>Hardison Fai</u>	rm Solar, LLC	
Attention: Chris Norqual		
Address: <u>3250 Ocean Park Boulevard, s</u>	Suite 355	
City: Santa Monica	State: CA	Zip: <u>90405</u>
E-Mail Address: norqual@ccrenew.com		
Phone: <u>(310) 581-6299</u>		
If to the Utility:		
Utility: Virginia Electric and Power Com	pany	
Attention: Mike Nester		
Address: 200 Vepco Street		
City: <u>Roanoke Rapids</u>	State: NC	Zip: <u>27870</u>
E-Mail Address: Mike.Nester@dom.com		
Phone: (252) 308-1077	Fax: <u>(252) 308</u> -	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: Hardison Farm Solar, LLC

Attention: Chris Norqual

Address: 3250 Ocean Park Boulevard, Suite 355

City: Santa Monica State: CA Zip: 90405

E-Mail Address: norqual@ccrenew.com

# If to the Utility:

Utility: Virginia Electric and Power Company

Attention: Remittance Processing Services

Address: P.O. Box 26543

City: Richmond	State: VA	Zip: 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: Hardison F	arm Solar, LLC	
Attention: Chris Norqual		
Address: 3250 Ocean Park Boulevard	J, Suite 355	
City: Santa Monica	State: CA	Zip: <u>90405</u>
Phone: <u>(310) 581-6299</u>		
E-Mail Address: norqual@ccrenew.co	m	
If to the Utility:		
Utility: Virginia Electric and Power Co	ompany	
Attention: Mike Nester		
Address: 200 Vepco Street		
City: Roanoke Rapids	State: NC	Zip: <u>27870</u>
Phone: <u>(252) 308-1077</u>	Fax: <u>(252) 308</u> -	1078
E-Mail Address: Mike.Nester@dom.co	om.	

# 13.4 Designated Operating Representative

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: Hardison	Farm Solar, LLC	
Attention: Chris Norqual		
Address: 3250 Ocean Park Boulevar	rd, Suite 355	
City: Santa Monica	State: CA	Zip: <u>90405</u>
Phone: <u>(310) 581-6299</u>	- Bertaller	
E-Mail Address: norqual@ccrenew.co	om	
Jtility's Operating Representative:		
Utility: Virginia Electric and Power C	ompany	
Attention: ROC Shift Supervisor		
Address: 2700 Cromwell Road		
City: Norfolk	State: VA	Zip: <u>23509</u>
Phone: <u>(757) 857-2720</u>	Fax: (757) 85	7-2633
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# 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.

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

For the Utility
Name: I Kam Cust
Print Name: J. KEUIN WRTN
Title: VP TECHNICAC SOLUTIONS
the second se
Date: 10/12/15
For the Interconnection Customer
Name: 0-8-
Print Name:
<ul> <li>A second s</li></ul>
Title: Vice President
Date:

Interconnection Agreement Appendix 1

# **Glossary of Terms**

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

NC Interconnection Agreement

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

# Generating Facility

Generating facility will be a 5.0 MWac Solar Farm (NC14018) request for installation of parallel generation units located at 19919 US Hwy 64 in Williamston, North Carolina. The Distributed Generation (DG) owner desires to both 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 inverters rated 825kVA operating at 342Vac. The inverter system is in blocks of single 825kVA inverters that are connected to a three (3) phase 825kVA pad mounted transformer. All transformers will be rated 34.5/19.9kV - 342V with a wye-ground (primary) – delta (secondary) winding configuration. The DG owner will include the installation of a neutral grounding resistor in the neutral (H<sub>0</sub>)-ground path of one (1) of the two (2) transformers, in each of the three (3) collector circuits. The neutral of the second transformer, in each of the three (3) collector circuits, will be floated.

#### **Customer Interconnection Facilities**

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

#### Customer Responsibilities for 5.0 MWac of Generation

- Installation of all conductors between the generating facility and POI
- Installation of a neutral grounding resistor in the neutral (H<sub>0</sub>)-ground path of one (1) of the two (2) transformers, in each of the three (3) collector circuits. The neutral of the second transformer, in each of the three (3) collector circuits, will be floated.
- Installation of a three phase disconnect switch
- Installation of all generator breakers and associated equipment
- Communication lines for all metering
- Communication between customer breaker and Utility recloser if required
- 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 14D of the PJM OATT via communication links installed, owned, and maintained by the Customer.

# Interconnection Facilities and Metering

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

#### New Attachment Facilities for 5.0 MWac of Generation

- Installation of five (5) new poles and guying needed
- Installation of approximately 200 feet of three (3) phase overhead 477 Al. Primary / Neutral conductor
- Installation of G & W Viper Recloser with a SEL651R-2 Recloser Control
- The Utility will provide a Power Monitor (SEL-735 or equivalent device) at the Point of Common Coupling with all required metering/relay functionality. The Utility will also provide a transformer and secondary voltage conductors to provide source voltage for the Utility owned Power Monitor.
- All metering needed for interconnection of generation and auxiliary load
- One Disconnect Switch

The estimated cost of the installation of the new attachment facilities to provide the interconnection is \$190,900.00.

The customer will also be responsible for an ongoing monthly operation and maintenance cost of 0.45 percent of the estimated cost of the new facilities of \$190,900.00. The calculation will be:  $$190,900.00 \times 0.0045 = $859.05$ 

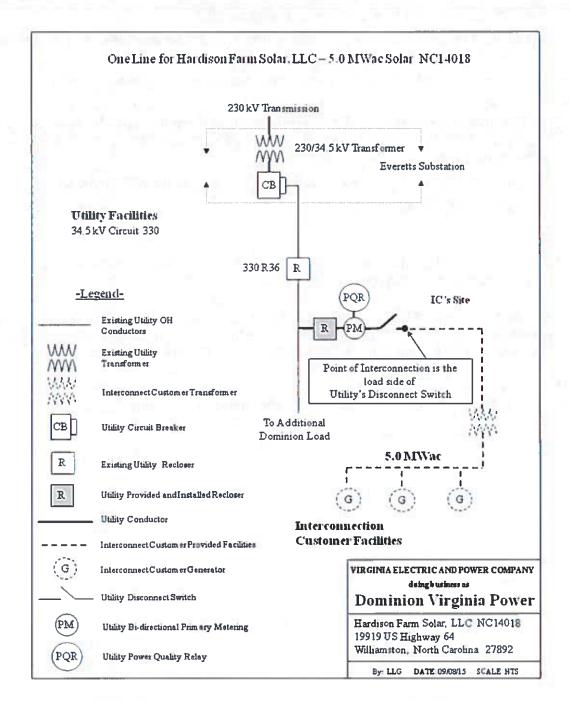
The Utility will bill the Interconnect Customer the actual amount for all construction work after the work has been completed and subtract any upfront payments from the total.

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Interconnection Agreement Appendix 3

# One-line Diagram Depicting the Generating Facility, Interconnection Facilities, Metering Equipment, and Upgrades

This agreement will incorporate by reference the one-line diagram submitted by the Customer on 12/01/2014, dated 11/24/2014, with file name "Hardison Farm\_1 Line\_Dec 2014" as part of the Interconnection Request, or as subsequently updated and provided to the Company.



### Milestones

Upgrade In-Service Date: Nine (9) months from the Execution of this Interconnection Agreement and Payment of Construction Costs contained herein

Interconnection Facilities In-Service Date: Nine (9) months from the Execution of this Interconnection Agreement and Payment of Construction Costs contained herein

Critical milestones and responsibility as agreed to by the Parties:

The build-out schedule does not include contingencies for deployment of Utility personnel to assist in outage restoration efforts on the Utility's system or the systems of other utilities with whom the Utility has a mutual assistance agreement. Consequently, the In-service date may be delayed to the extent outage restoration work interrupts the design, procurement and construction of the requested facilities.

	Milestone	Completion Date	Responsible Party
1)	Final Execution of Interconnection Agreement	TBD	Interconnection Customer
2)	Dominion Easements and Transmission Encroachment	TBD	Interconnection Customer
3)	Private Facilities to POI	TBD	Interconnection Customer
4)	POTS and/or Communication Lines	TBD	Interconnection Customer
5)	Distribution Upgrades & Attachment Facilities	TBD	Dominion
6)	Substation Upgrades	TBD	Dominion
7)	PQ Baseline Monitoring	TBD	Dominion
8)	Commissioning Procedure Submittal	TBD	Interconnection Customer
9)	Site Energization	TBD	Dominion
10)	Witness / Anti-Islanding Testing	TBD	Interconnection Customer and Dominion

Agreed to by: For the Utility URTIS Print Name For the Interconnection Customer Print Name: 1

Date 10/12/15Date 9/14/15

NC Interconnection Agreement

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

The Utility has reviewed the 6.75MWdc / 5.0MVA Solar Farm (NC14018) request for installation of parallel generation units located at 19919 US Hwy 64 in Williamston, North Carolina. The Distributed Generation (DG) owner desires to both 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 inverters rated 825kVA operating at 342Vac. The inverter system is in blocks of single 825kVA inverters that are connected to a three (3) phase 825kVA pad mounted transformer. All transformers will be rated 34.5/19.9kV – 342V with a wye-ground (primary) – delta (secondary) winding configuration. The resulting protection requirements are based on the following information:

- No more than 6.75MWdc / 5.0 MVA of total generation will be in parallel with the DNCP system at any one time.
- The DG owner's generation facility will be paralleled with the DNCP system by the following connections:
  - The DG owner's generation facility will be connected to Everetts Circuit 330 via the new Automatic Line Recloser (ALR) 330RXXX which is sourced by recloser 330R36, Circuit Breaker 33012, and Everetts Transformer #1.
- Everetts TX#1 currently has existing or existing project queue DG totaling 15 MWac, of which 5MWac is associated with NC14018.
- Everetts Circuit 330 feeder breaker has reclosing times at 10 seconds and 45 seconds after the first trip.
- 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 circuit</u> is switched into an <u>abnormal configuration</u>.
- The DG owner will be contracting with DNCP to export power into the DNCP distribution system.
- The load data for the pertinent sectionalizing devices are as follows:
  - > Everetts Circuit 330 (33012) has a typical "light" loading of 5.56 MVA.
  - Everetts Transformer #1 has a typical "light" loading of 8.8 MVA.

Based on projected minimum loads given for the 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 33012	0.024
Transformer #1	0.357

Based on the size and type of this generation, the applicable DNCP Standards and the minimum load ratios applicable for this installation, the following requirements must be met in their entirety before permission to parallel operations 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 (Table 4: ALR Set Points) at the DG owner expense.
- 2. Installation of an <u>additional Dominion owned Protective Relaying (SEL-735 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 (Primary kV 120 V ac) source (low exposure) independent of any other generation, load or exposure. Such Protective Relaying should aid in the determination of on-going harmonic levels among 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.
- 3. 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. The PV plant shall meet the IEEE Standard 519 2014 "IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems". If there is evidence that the Voltage Total Harmonic Distortion (THD) is greater than or equal to 5%, Current Total Demand Distortion (TDD) is greater than or equal to 5%, or any single harmonic exceeds the distortion limits specified in IEEE Standard 519- 2014, the DG owner would be required to add a filtering system to its installation to meet the requirements of IEEE 519 2014.
- 4. Provisions shall be made for the application of Neutral Grounding Resistors (NGR's). The NGR's will be sized in a manner to maintain DNCP's effectively grounded system while limiting neutral current to maintain the circuit relay coordination during ground faults. Voltage and current unbalance are normal on many distribution feeders as they supply many single phase loads and thereby all three phases are never equally loaded. Phase voltage unbalance of 3% and phase current unbalance of 10-20% of total feeder load is common. During abnormal conditions, such as faults and single phase operations, the current unbalance may be significantly higher than 20%. It will be the responsibility of the DG owner's engineering/technical

representatives to select and apply the properly sized isolation transformer with H<sub>0</sub> bushing-to-ground impedance (resistance). While DNCP may recommend a range for the fault current or NGR size, DNCP will not size the equipment for the DG owner. DNCP will only review the selected equipment and must grant approval of the design from our perspective before the DG is permitted to interconnect. It is important that the details of the resistively grounded wye-delta step-up transformers be provided to DNCP as soon as possible for review due to both the importance of maintaining an effectively grounded Electric Power System (EPS) and providing appropriate coordination of protective relaying for ground faults. The DG owner must implement a protection scheme that monitors the neutral path of each resistively grounded step-up transformer. The protection and control scheme shall provide continuous monitoring of the neutral-to-ground path to verify that the neutral grounding resistor (NGR) is intact, to prevent any ground fault overvoltage. The protection and control scheme shall also provide continuous monitoring of the neutral to ground path to verify that the neutral grounding resistor (NGR) is not shorted, to prevent excessive flow of zero sequence current during ground faults. This protection scheme must remove the entire DG plant from service for the opening/shorting of any resistively grounded step-up transformer neutral path. Per Drawing# E.0001, Date: 20 May 2014, DNCP recommends a neutral grounding resistor (NGR) range of 40 Ohms ± 10 percent, in the transformer neutral path of one (1) of the two (2) transformers, in each of the three (3) collector circuits. The neutral of the second transformer, in each of the three (3) collector circuits, will be floated.

- 5. Station upgrades listed below are required (if not already existing):
  - a. Addition of SEL-451 DG panel to provide trip functionality, for a 230kV 3V0 event, to trip Everetts feeder 330 breaker.
  - b. Upgrade Everetts Transformer#1 / Bus#1 protection relay panel to standard microprocessor package.
  - c. Add three-phase potential transformers to 34.5kV Bus#1 to provide voltage polarization (directionality).
  - d. Upgrade feeder 330 protection relay panel to standard microprocessor package.
  - e. Add Dead Line Reclosing to the 33012 feeder relay. This includes adding a PT to the distribution line and adding the logic to the feeder relay.
  - f. Wire Everetts 34.5kV Bus#1 HEA 86B1 to trip and prevent reclosing of CB 33012 to remove all sources for Bus#1 faults.

With respect to inverter protection, the voltage and frequency "Default Max" clearing times, listed in Table 2, are derived from IEEE-1547a-2014 (Amendment to IEEE Standard 1547-2003). The overall anti-islanding "Default Max" clearing time, listed in Table 2, 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 2) on "all inverters". If the DG owner proposes to adhere to IEEE

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<u>1547 default maximum clearing times and not the DNCP standards, the DG owner shall</u> <u>provide detailed, manufacturer-supplied computer simulation models (Aspen OneLiner,</u> <u>PSS/E, and PSCAD) of the PV plant, to include full control and hardware details,</u> <u>needed to investigate DG impacts. This detailed investigation of DG impacts shall be</u> <u>completed prior to the implementation of the physical Interconnection of the DG with the</u> <u>Dominion EPS.</u> If the DG owner adheres to the DNCP clearing times, test results from a nationally recognized laboratory will need to be provided to DNCP for review.

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.

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

Interconnection Agreement Appendix 5

All the data requested in Table 2 and Table 3 must be provided by the DG owner for DNCP to perform 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 (XL1)	
Short-Circuit Equivalent Negative Sequence Resistance (R2)	
Short-Circuit Equivalent Negative Sequence Reactance (XL2)	
Short-Circuit Equivalent Zero Sequence Resistance (R0)	
Short-Circuit Equivalent Zero Sequence Reactance (XL0)	

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

Duration			F	ositive	Sequenc	e Voltage	e at Inver	ter Termi	inals Duri	ng Sag (%	6)	
Sec	Cycles	Ó	10	20	30	40	50	60	70	80	90	100
0.008	0.5							-				
0.017	1.0					1						
0.033	2.0				16		1.0					
0.067	4.0		1.1			1.3		1.00			- 0	
0.133	8.0					1						
0.160	9,6									1		
0.267	16.0											5 = 1
0.533	32.0						1		-	_	F 1	
1.067	64.0								Π	-	1	-
2.000	120.0					1	¥.— — — — — — — — — — — — — — — — — — —	-				
3.000	180.0		100-11									

 Table 3: Inverter Output Current (Per Unit Based on \_\_\_\_A RMS)

 at Various Positive Sequence Voltage Sags

**NC Interconnection Agreement** 

Interconnection Agreement Appendix 5

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:

1	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
51P	Phase Time-delay Overcurrent	Set for minimum, with adequate load allowance	Maintain proper coordination with DG owner high side fuse
51G	Ground Time-delay Overcurrent	Set above DG site cumulative transformers inrush current	Maintain proper coordination with DG site cumulative transformers inrush current curve and upstream ground protection
32	Directional Power	Not to exceed DG power export in Interconnection Agreement	TBD

# Table 4: ALR Set Points

Since the installation of the Dominion-owned ALR at the PCC, associated relaying, <u>Protective Relaying (SEL-735 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>

In addition, if changes occur in the IEEE guidelines for the interconnection of a DG system and/or changes occur in system conditions (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 for DNCP and/or the DG owner. Any necessary upgrades will be assigned according to how the changes impact the DG

Interconnection Agreement Appendix 5

owner's generation and interconnection to the grid. In accordance with this Interconnection Agreement, DNCP reserves the right to require the DG owner to remedy any adverse operating conditions at the DG owner's expense, should they occur.

Finally, please promptly provide us details/confirmation concerning the DG owner's final inverter model (nameplate photos), the applied inverter trip points, and interface transformer specifications (i.e. transformer impedance, load losses, high side fuse make, model, rating, etc.), as soon as possible.

Please contact the Utility at (804) 257-4688 if you have any questions or need additional information.

NC Interconnection Agreement

Interconnection Agreement Appendix 6

# Utility's Description of its Upgrades and Best Estimate of Upgrade Costs

Distribution Upgrades for 5.0 MWac of Generation

# Purchase and install (Everetts Substation):

- One (1), 34.5kV, 175/300:1 Potential Transformers.
- One (1), 34.5kV, SMD-20 fuses and One (1), 22kV, 12A current limiting fuses
- Conductor, connectors, conduit, control cable, foundations and grounding material as per engineering standards.

# Purchase and install relay material (Everetts Substation):

• One (1), 1 PH Potential MU Box.

Total cost for all Distribution Upgrades equals \$99,336.00

The cost for all work necessary to facilitate the interconnection will be \$290,236.00 and must be paid prior to starting work.

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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.

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# 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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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	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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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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# 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 OF's generation facilities have an aggregate nameplate rating of less the QF 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)

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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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Docket No. E-100, Sub 136

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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	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)

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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)

	Variable Rate	5-Year	10-Year	<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.

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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			
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 5,895 3.930	<u>10-Year 15-Year</u> 6.095 6.263 4.063 4.175		
For all other facilities:		Capacity Price		
On-Peak (¢/kWh) Summer On-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:

	Capacity Frice			
On-Peak (¢/kWh) Summer On-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:	Capacity Price			
On-Peak (¢/kWh) Summer On-Peak (¢/kWh) Non-summer	<u>5-Year</u> 8.115 3.128	8.389	<u>15-Year</u> 8.621 3.323	

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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)

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.

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# 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.

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400 West Main, Suite 503 Durham, NC 27701 919-682-6822 www.carolinasolarenergy.com

21 April 2014

RE: Submission of FERC Form 556 SP-2363, Sub 8 (Hardison Farm)

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

Dear Ms. Mount:

Attached please find the FERC Form 556 for Hardison Farm, in support of our applications under this docket.

Thank you in advance for your assistance with this application.

Sincerely,

Carson Harkräder Cell: 518-728-5926 Email: charkrader@carolinasolarenergy.com

FERC Acceptance for Filing in QF14-478-000	
EXHIBIT E Thu, Apr 17, 2014 at 8:50 AM To: charkrader@carolinasolarenergy.com, efilingacceptance@ferc.gov	COPY -
Acceptance for Filing	
The FERC Office of the Secretary has accepted the following electronic submission for filing (Acceptance for filing does not constitute approval of any application or self-certifying notice):	OFFICIAL
-Accession No.: 201404175027 -Docket(s) No.: QF14-478-000 -Filed By: Carolina Solar Energy II, LLC -Signed By: Gerald Dudzik -Filing Type: Qualifying Facility Application or PURPA Energy Utility Filing -Filing Desc: Form 556 of Carolina Solar Energy II, LLC [Hardison Farm] under QF14-478. -Submission Date/Time: 4/16/2014 5:10:47 PM -Filed Date: 4/17/2014 8:30:00 AM	Mar 30 2016
Your submission is now part of the record for the above Docket(s) and available in FERC's eLibrary system at:	Ž
http://elibrary.ferc.gov/idmws/file_list.asp?accession_num=20140417-5027	
If you would like to receive e-mail notification when additional documents are added to the above docket(s), you can eSubscribe by docket at:	
https://ferconline.ferc.gov/eSubscription.aspx	
There may be a 10 minute delay before the document appears in eLibrary.	
Thank you again for using the FERC Electronic Filing System. If you need to contact us for any reason:	
E-Mail: efiling@ferc.gov mailto:efiling@ferc.gov (do not send filings to this address) Voice Mail: 202-502-8258.	

Carolina Solar 1	nt (legal entity on whose behalf qualify Energy II, LLC	ing facility status	is sought for this facility	
1b Applicant street add 400 W Main St,			-	
1c City Durham		1d State/provi	nce	
1e Postal code 27701	<b>1f</b> Country (if not United States)		<b>1g Telephone number</b> 919-682-6822	
	ty ever previously been certified as a Q cket number of the last known QF filing		is facility: QF -	
QF status. A notice notice of self-certific	fication A fe certification is a notice by the applicant of self-certification does not establish a cation to verify compliance. See the "W or more information.	itself that its faci proceeding, and	d the Commission does n	quirements for ot review a
1k What type(s) of QF s ∑ Qualifying small p	tatus is the applicant seeking for its fac	ualifying cogene	at apply) eration facility status	
	on; facility expected to be installed by	12/31/14 a	nd to begin operation on	12/31/14
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Change(s) to a pre (identify type(s) of Name change i Change in own Change(s) affect Supplement or corr (describe the supp Im If any of the followit to the extent possib The instant facili previously grant orders in the Miss	viously certified facility to be effective of f change(s) below, and describe change and/or other administrative change(s) ership cting plant equipment, fuel use, power rection to a previous filing submitted o lement or correction in the Miscellaneo ng three statements is true, check the b le, explaining any special circumstance ty complies with the Commission's QF ed by the Commission in an order date	e(s) in the Miscell production capa n bus section startin box(es) that descr es in the Miscellar requirements by ed	city and/or cogeneration ng on page 19) ribe your situation and co neous section starting on virtue of a waiver of cert (specify any other releve	omplete the form page 19. ain regulations ant waiver

				E	EXHIBIT E			
FEI	C Form 556				Page 6 - All Facilities			
_	2a Name of contact person			2b Telephone num	ber			
	Ms. Carson Harkrader			919-682-6822	-			
	2c Which of the following describes							
_	Applicant (self) Employee, owner or partner of applicant authorized to represent the applicant							
o	Employee of a company affiliat	ted with the applicant aut	horized to repres	ent the applicant on t	his matter			
lat	Lawyer, consultant, or other re	presentative authorized to	o represent the a	oplicant on this matte	r			
L	2d Company or organization name	(if applicant is an individu	al, check here and	skip to line 2e)				
ufg	Carolina Solar Energy II,	LLC						
Contact Information	2e Street address (if same as Applic	ant, check here and skip to	line 3a) 🗙					
itad								
lo lo								
0	2f City		2g State/prov	nce				
			-					
	2h Postal code	2i Country (if not United	States)					
_	3a Facility name							
lon	Hardison Farm	-						
cat	3b Street address (if a street addres	s does not exist for the fac	ility, check here a	nd skip to line 3c)				
ŏ	19919 US Highway 64							
p	Williamston NC 27892							
Facility Identification and Location	<b>3c</b> Geographic coordinates: If you i then you must specify the latitude							
<u>io</u>	the following formula to conver							
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len	Longitude West (-)	degrees	Latitude	South (-)	degrees			
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Ē	Williamston		NC					
ac	3f County (or check here for indepe	endent city) 3	g Country (if not	United States)				
-	Martin							
	Identify the electric utilities that are	contemplated to transact	with the facility.					
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Ē	Dominion North Carolina	5.						
Uti	4b Identify utilities providing whee	ling service or check here	if none 🛛					
B			_					
: Ei	4c Identify utilities purchasing the u	useful electric power outp	ut or check here i	fnone				
Sac	Dominion North Carolina			to a second to be a second				
Transacting Utilities	4d Identify utilities providing suppl	lementary power, backup	power, maintena	nce power, and/or int	erruptible power			
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FERC	Form	55
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Page 7 - All Facilities

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Mar 30 2016

RC Form 556		<u>.</u>	-		All Facilitie
5a Direct ownership as of effective date or operation date: Identify all dir percent equity interest. For each identified owner, also (1) indicate will defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), o 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 1 utilities or holding companies, provide the percentage of equity intered direct owners hold at least 10 percent equity interest in the facility, the two direct owners with the largest equity interest in the facility.	hether that owner or a holding compa 6451(8)), and (2) f est in the facility h en provide the rea	r is an ele any, as de or owner reld by th	ectric efined rs whi hat ov forma	utility d in s ich ar wner. ation	y, as ection re electric lf no
		holo		01	% equity
Full legal names of direct owners		com	-		interest
1) Carolina Solar Energy II, LLC		Yes 🗌	No	$\boxtimes$	
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		
<ul> <li>Check here and continue in the Miscellaneous section starting or</li> <li>5b Upstream (i.e., indirect) ownership as of effective date or operation date of the facility that both (1) hold at least 10 percent equity interest in the defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 126)</li> </ul>	ate: Identify all up he facility, and (2) or holding compar	ostream ( are elect nies, as d	i.e., in tric ut lefine	ndirec tilities ed in s	ct) owners s, as ection
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FEF		orm 556					5	e 8 - All Facilities
	6a		ne primary energy input: (ch				(compared) (compared to compared to compar	
	-		s (specify)	⊠ F	Renewable resources (s		Geothermal	
j.			andfill gas		Hydro power - riv		Fossil fuel (spe	· ·
			lanure digester gas		Hydro power - tio		🗌 Coal (no	
			Aunicipal solid waste		Hydro power - w		Fuel oil/	
-		Sec. 3 m	ewage digester gas		Solar - photovolt	aic		gas (not waste)
			Vood		Solar - thermal		Other fo	ssil fuel e on page 19)
			)ther biomass (describe on	page 19)	Wind	kasaliksa		
		Waste (	specify type below in line 6	b)	Other renewable (describe on pag		Other (describ	e on page 19)
	6b	If you spec	ified "waste" as the primary	energy in	out in line 6a, indicate	the type of	waste fuel used: (cl	neck one)
		U Waste	e fuel listed in 18 C.F.R. § 29	2.202(b) (s	pecify one of the follow	wing)		
			Anthracite culm produced	prior to Ju	ly 23, 1985			
			Anthracite refuse that has ash content of 45 percent		e heat content of 6,000	Btu or less	per pound and has	an average
			Bituminous coal refuse tha average ash content of 25			9,500 Btu p	per pound or less an	d 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						
Energy Input	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							
ш			Lignite produced in associates a result of such a mining			ntan wax ar	nd lignite that beco	mes 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 requirement C.F.R. § 2.400 for waste natural gas; include with your filing any materials necessary to demonstr compliance with 18 C.F.R. § 2.400)							
			Materials that a governme	nt agency	has certified for dispos	al by comb	oustion (describe or	page 19)
			Heat from exothermic read	tions (des	cribe on page 19)	🗆 R	esidual heat (descri	be on page 19)
			Used rubber tires	] Plastic m	naterials 🗌 F	Refinery off	-gas 🗌 Pe	troleum 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	energy inp	e average energy input, calo outs, and provide the related . For any oil or natural gas f	d percenta	ge of the total average	e annual en	ergy input to the fa	
			- 1		nnual average energy		Percentage of total	
			Fuel Natural gas	ir	put for specified fuel	1	annual energy input	
			Oil-based fuels			Btu/h	0 %	
			Coal			Btu/h	0 %	-
					(	Btu/h	0 %	

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AC Form 556	Page 9 - All Facilitie
Indicate the maximum gross and maximum net electric power production capacity of the facility a delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads an lines 7b through 7e are negligible, enter zero for those lines.	it the point(s) of d/or losses identified i
<b>7a</b> The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	6,250 kV
<b>7b</b> 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	80 K
7d Electrical losses in AC/DC conversion equipment, if any	0 k
<b>7e</b> 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 interconnectio with the utility	
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	160.0 k
<b>7g</b> Maximum net power production capacity = 7a - 7f	6,090.0 k
generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power ge used in the facility. Descriptions of components should include (as applicable) specifications capacities for mechanical output, electrical output, or steam generation of the identified equi of equipment identified, clearly indicate how many pieces of that type of equipment are inclu which components are normally operating or normally in standby mode. Provide a description components operate as system. Applicates for generation facilities de pet peed to description	of the nominal pment. For each piece ided in the plant, and on of how the
used in the facility. Descriptions of components should include (as applicable) specifications is capacities for mechanical output, electrical output, or steam generation of the identified equi- of equipment identified, clearly indicate how many pieces of that type of equipment are inclu- which components are normally operating or normally in standby mode. Provide a description components operate as a system. Applicants for cogeneration facilities do not need to descri- systems that are clearly depicted on and easily understandable from a cogeneration facility's heat balance diagram; however, such applicants should provide any necessary description nee the sequential operation of the facility depicted in their mass and heat balance diagram. If ad needed, continue in the Miscellaneous section starting on page 19.	of the nominal pment. For each piece ided in the plant, and on of how the be operations of attached mass and eeded to understand iditional space is
used in the facility. Descriptions of components should include (as applicable) specifications is capacities for mechanical output, electrical output, or steam generation of the identified equit of equipment identified, clearly indicate how many pieces of that type of equipment are inclus which components are normally operating or normally in standby mode. Provide a description components operate as a system. Applicants for cogeneration facilities do not need to description systems that are clearly depicted on and easily understandable from a cogeneration facility's a heat balance diagram; however, such applicants should provide any necessary description need to sequential operation of the facility depicted in their mass and heat balance diagram. If additional components are to be a sequential operation of the facility depicted in their mass and heat balance diagram.	of the nominal pment. For each piece ided in the plant, and on of how the be operations of attached mass and reded to understand iditional space is approximately ston in Martin
used in the facility. Descriptions of components should include (as applicable) specifications is capacities for mechanical output, electrical output, or steam generation of the identified equit of equipment identified, clearly indicate how many pieces of that type of equipment are inclu- which components are normally operating or normally in standby mode. Provide a description components operate as a system. Applicants for cogeneration facilities do not need to descri- systems that are clearly depicted on and easily understandable from a cogeneration facility's heat balance diagram; however, such applicants should provide any necessary description nee the sequential operation of the facility depicted in their mass and heat balance diagram. If ad needed, continue in the Miscellaneous section starting on page 19. The 4.99MWac (6.25MWdc) Photovoltaic Generator will be located on 40 acres of land at 19919 US Highway 64, near the town of Williams County, NC. The generator will have a security fence and will oper	of the nominal pment. For each piece ided in the plant, and on of how the be operations of attached mass and reded to understand iditional space is approximately ston in Martin rate without a ground att 6 x 750 kw

Technical Facility Information

Mar 30 2016

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EXHIBIT E

EXHIBIT E

## 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), to with the power production capacity resource, are owned by the same po- megawatts. To demonstrate compo- from this size limitation under the S (Pub. L. 101-575, 104 Stat. 2834 (199) through 8e below (as applicable).	y of any other small pow erson(s) or its affiliates, a liance with this size limit olar, Wind, Waste, and (	rer production facilities that use and are located at the same site ation, or to demonstrate that y Geothermal Power Production I	e the same energy , may not exceed 80 rour facility is exempt ncentives Act of 1990
	<b>8a</b> Identify any facilities with elect equipment of the instant facility, ar at least a 5 percent equity interest.	nd for which any of the e	ent located within 1 mile of the Intities identified in lines 5a or 9	e electrical generating 5b, or their affiliates, holds
JCe	Check here if no such facilities exist			
Certification of Compliance with Size Limitations	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity
tification of Complia with Size Limitations	1)	QF -		kW
in C	2)	QF -		kW
n o e L	3)	QF -		kW
tio	Check here and continue in th	e Miscellaneous section	starting on page 19 if addition	al space is needed
Ů	Are you seeking exemption from the Yes (continue at line 8c be 8c Was the original notice of self-or before December 31, 1994? Yes	low)	No (skip lines 8c through 8	Be)
	8d Did construction of the facility	commence on or before	December 31, 1999? Yes	No
	<b>8e</b> 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.	actors relevant to const Miscellaneous section s	ruction? Yes No If ye tarting on page 19 of the const	ou answered Yes, provide ruction timeline (in
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), a mounts, for only the following pu prevention of unanticipated equip the public health, safety, or welfare used for these purposes may not ex period beginning with the date the	rposes: ignition; start-u ment outages; and allev , which would result fro cceed 25 percent of the	o; testing; flame stabilization; co iation or prevention of emerge m electric power outages. The total energy input of the facility	ontrol use; alleviation or ncies, directly affecting amount of fossil fuels y during the 12-month
on of C Use Rei	<b>9a</b> Certification of compliance with Applicant certifies that the			
Certificati with Fuel	9b Certification of compliance with Applicant certifies that the ∑ percent of the total energy facility first produces electr	amount of fossil fuel use input of the facility duri	ed at the facility will not, in agg ng the 12-month period begini	regate, exceed 25

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EXHIBIT E

Page 18 - All Facilities

Certificate of Completeness, A	Accuracy and	Authority
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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 c	ogeneration
X	mass and heat balance diagrams, and any information contained in the Miscellaneous section starting c	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

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
	Carolina Solar Energy, 400 W Main	
Gerry T. Dudzik	Street, Suite 503, Durham NC 27701	4/16/2014

Audit Notes Commission Staff Use Only:

	EXH
All Facilities	FERC Form 556 Page
	Viscellaneous
	Use this space to provide any information for which there was not sufficient space in the previous sections of t provide. For each such item of information <i>clearly identify the line number that the information belongs to</i> . You this space to provide any additional information you believe is relevant to the certification of your facility.
the	Your response below is not limited to one page. Additional page(s) will automatically be inserted into this for length of your response exceeds the space on this page. Use as many pages as you require.
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Mar 30 2016

## STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-2363, SUB 8 DOCKET NO. SP-4340, SUB 0

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## BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

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

ORDER ISSUING CERTIFICATE AND ACCEPTING REGISTRATION OF NEW RENEWABLE ENERGY FACILITY

BY THE COMMISSION: On April 23, 2014, Carolina Solar Energy II, LLC (Carolina), filed an application with the Commission in Docket No. SP-2363, Sub 8, seeking a certificate of public convenience and necessity pursuant to G.S. 62-110.1(a) for construction of a 4.99-MW<sub>AC</sub> solar photovoltaic electric generating facility to be located in Martin County at 19919 U.S. Highway 64, Williamston, North Carolina. Carolina planned to sell the electricity generated by this facility to Dominion North Carolina Power (DNCP).

Contemporaneously with the application, Carolina 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) Carolina would not remarket or otherwise resell any renewable energy certificates (RECs) sold to an electric power supplier to comply with G.S. 62-133.8; and (4) Carolina would 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 April 30, 2014, the Commission issued an Order Requiring Publication of Notice, which required Carolina 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 Carolina planned to sell and distribute the electricity, and (3) file a certificate of service of the 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.

On June 5, 2014, the State Clearinghouse filed initial comments stating that additional information was required by the Department of Cultural Resources in order to complete its review.

On July 22, 2014, Carolina filed a certificate of service stating that the public notice and a copy of the application were provided to DNCP on May 28, 2014. Also on this date, Carolina filed an affidavit of publication from The Daily Reflector stating that the publication of notice was completed on June 24, 2014. No complaints have been received.

On September 3, 2014, the State Clearinghouse filed additional comments. The comments included a letter from the Department of Cultural Resources indicating that Carolina had provided it information and the Department had no comment on the project as proposed. 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 September 18, 2014, Carolina filed a verification page for the registration statement and a proposed site layout map.

On September 23, 2014, Carolina and Hardison Farm Solar, LLC (Applicant), filed in Docket Nos. SP-2363, Sub 8, and SP-4340, Sub 0, an amendment to the application and registration statement to provide that the Applicant, a wholly owned subsidiary of Carolina, would own the proposed facility and should receive the certificate of public convenience and necessity.

The Public Staff presented this matter to the Commission at its Regular Staff Conference on October 13, 2014. The Public Staff recommended that the Commission approve the amended application, issue the requested certificate to Hardison Farm Solar, LLC, and accept the registration statement.

After careful consideration, the Commission finds good cause to approve the amended 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 should 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 (<u>http://www.ncrets.org</u>) in order to facilitate the issuance of RECs.

IT IS, THEREFORE, ORDERED as follows:

1. That the application of Hardison Farm 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 Hardison Farm Solar, LLC, for the 4.99-MW<sub>AC</sub> solar photovoltaic electric generating facility located in Martin County at 19919 U.S. Highway 64, Williamston, North Carolina.

3. That the registration statement filed by Carolina, for its solar photovoltaic facility located in Martin County, North Carolina, as a new renewable energy facility shall be deemed to have been filed by Hardison Farm Solar, LLC, and shall be, and is hereby, accepted.

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

5. That the Chief Clerk shall close Docket No. SP-2363, Sub 8.

ISSUED BY ORDER OF THE COMMISSION.

This the  $14^{th}$  day of October, 2014.

NORTH CAROLINA UTILITIES COMMISSION Paige L. morvis

Paige J. Morris, Deputy Clerk

Chairman Edward S. Finley, Jr., and Commissioners ToNola D. Brown-Bland and Don M. Bailey did not participate in this decision.

## STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

DOCKET NO. SP-4340, SUB 0

Hardison Farm Solar, LLC c/o Carolina Solar Energy II, LLC 400 West 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<sub>AC</sub> solar photovoltaic electric generating facility

located

in Martin County at 19919 U.S. Highway 64, Williamston, 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>14<sup>th</sup></u> day of October, 2014.

NORTH CAROLINA UTILITIES COMMISSION

Paige f. morris Paige J. Morris, Deputy Clerk