

INFORMATION SHEET

PRESIDING: Patrick Buffkin

PLACE: Northampton County Courthouse, Jackson, NC

DATE: Wednesday, December 7, 2016

TIME: 6:00 p.m. – 6:58 p.m. DOCKET NO.: SP-5273, Sub 0 COMPANY: Pecan Solar, LLC

DESCRIPTION: Application for a Certificate of Public Convenience and Necessity to Construct a

74.9-MW Solar Facility in Northampton County, NC.

VOLUME:

APPEARANCES

FOR PECAN SOLAR, LLC: Kiran H. Mehta, Esq.

WITNESSES

Steve Garner Verlene Stephenson Lena Davis Tony Mumford Doug Copeland

EXHIBITS

Copeland Exhibits 1 and 2 (I/A)

COPIES ORDERED: Buffkin (paper copy) – 1; Mehta (email) - 1

REPORTED BY: Kim Mitchell TRANSCRIBED BY: Kim Mitchell

DATE TRANSCRIBED: December 22, 2016

FILED

JAN 0 3 2017

Clerk's Office N.C. Utilities Commission

TRANSCRIPT PAGES: 41 PREFILED PAGES: 12

TOTAL: 53

NORTH CAROLINA UTILITIES COMMISSION APPEARANCE SLIP

DATE 12/7/16 DOCKET #: 5P-5273, Sub 0
NAME AND TITLE OF ATTORNEY KIRAN H. MEHTA
FIRM NAME TROUTMAN SANDERS, LLP
ADDRESS 301 5. College St., Suite 3400
CITY charlotte, NC ZIP 2820Z
APPEARING FOR: PECAN SOLAR, LLC
TITIME TON. CCAN SOUTH, LLC
APPLICANT X COMPLAINANT INTERVENER
PROTESTANT RESPONDENT DEFENDANT
PLEASE NOTE: Electronic Copies of the regular
transcript can be obtained from the NCUC web site at
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the respective docket number.
4
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Phone #: 704-998-4072
Email: kivan. mehta a trout mansanders. com
Signature: Aut Mehh
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1 I M ot
Signature:
(Required for confidential information)

EXHIBIT 1

to
Direct Testimony of Doug
Copeland

BY ELECTRONIC SUBMISSION

July 27, 2016

Gail L. Mount Chief Clerk North Carolina Utilities Commission 430 North Salisbury Street Raleigh, North Carolina 27603

Re:

Docket No. SP-5273, Sub 0

Pecan Solar, LLC - Amended Application for a Certificate of Public Convenience and Application to Register a New Renewable Energy Facility.

Dear Clerk Mount:

On June 17 and August 24, 2015 the North Carolina Utilities Commission issued an order granting a certificate and an amended certificate of public convenience and necessity for Pecan Solar, LLC respectively. Pecan Solar LLC is now requesting a second amended certificate of public convenience and necessity to include additional land parcels and changes of ownership, equipment selection, operation date and E911 address. An updated FERC for 556, Conditional Use Permit and Application for a New Renewable Energy Facility are also being submitted. Pecan Solar expects to receive an Amended Order requiring Publication of Notice.

In support of its amended application, Pecan Solar is providing information to the Commission that has changed from the previous filings:

1. Exhibit (1)(i)

Pecan Solar, LLC c/o EDF Renewable Energy 1925 Isaac Newton Square, Suite 280 Reston, VA 20190 Attn: Doug Copeland Tel. (703) 905-8110 Email: Doug Copeland@edf-re.com

2. Exhibit (1)(ii)

Doug Copeland is an individual duly authorized to act as a corporate agent for the purpose of this application. Correspondence, documents, and filings pursuant to this application

should be sent as follows:

Pecan Solar, LLC c/o EDF Renewable Energy 1925 Isaac Newton Square, Suite 280 Reston, VA 20190 Attn: Doug Copeland Tel. (703) 905-8110 Email: Doug.Copeland@edf-re.com

3. Exhibit (1)(iii)

The leases signed by the following have been converted to purchase options:

- 1. Three acres from Mason Rodwell Howell III were purchased. The remaining 177 acres are still under lease.
- 2. Michael H. Wray and Philip L. Moncure
- 3. Michael H. Wray, Kay W. Wray, David M. Dunlow and Debra B. Dunlow

Additional leases have been signed with the following landowners:

- 1. Charles Daniel
- 2. Tony Munford
- 3. Joyce Dickerson
- 4. Gerald Hart
- 4. Exhibit (2)(i) Attachment 1 to Exhibit 2 is amended to show the existing and new landowners along with the location of the major equipment.
- 5. Exhibit (2)(ii) The E911 address is 289 Bethel Church Road, Pleasant Hill, Seaboard, NC in Northampton County. Latitude 36.489°, Longitude -77.482°
- 6. Exhibit (3)(ii) The facility will consist of approximately two hundred, seventy thousand, four hundred and eighty (270,480) 330w to 370w photovoltaic (pv) modules affixed to single axis-tracking system and ground-mounted rack. The system will utilize thirty (30) 2.5 MW inverter. The Facility includes thirty (30) 645 v to 34.5 kv medium voltage transformers and one 34.5 kv to 115 kv step-up transformer and associated equipment.
- Exhibit (3)(iv) The first phase of the Facility is project to come on line by March 30, 2018.
- Exhibit (3)(ix) the projected year one annual sales of the facility is approximately 178,790,517 kWh/yr.
- Exhibit (3) The applicant plans to produce renewable energy certificates that are eligible for compliance with North Carolina's renewable energy and energy efficiency portfolio standard.
- 10. Exhibit (4)(i) A portion of the site is a permitted use. A variance for the permitted use rules were requested and approved.

11. Exhibit (4)(ii) A copy of the Conditional Use Permit for a portion of the facility is attached, along with a copy of a revised FERC Form 556.

Sincerely,

Doug Copeland

Pecan Soiar LLC

NORTHAMPTON COUNTY ZONING DEPARTMENT

ZONING PERMIT # 201500751 PO Box 995 Jackson, NC 27845 (252) 534-1905

Application: 7384

Applicant:

Application Date:

07/14/2015

Owner:

TAYLOR, ELLIS W

Issue Date:

07/22/2015

Mailing Address: 214 ROLLINGWOOD RD

ROANOKE RAPIDS, NC 27870

Parcel # 0801078

911 Address: 289 BETHEL CHURCH RD

Physical Location of Property:

ing District: AR

Description of Work: SOLAR FARM--Parcel #s 08-00080, 08-01094, 08-02420, 08-02768, 08-02280, 08-00823,

08-02009, 08-01078, 08-02770

Existing Use: Proposed Use:

Permit Expiration Date: 07/21/2018

Building Hgt:

Setbacks:

FRONT

RIGHT 30'

LEFT 30'

REAR 50'

*** SETBACKS HAVE BEEN APPROVED BASED ON SITE PLAN PROVIDED

This permit does not give the permit holder the right to occupy or use the structure, or land, for which the permit has been approved for. Occupancy or use shall only be permitted after a Certificate of Compliance has been issued by the Northampton County Zoning Office. The issuance of a Certificate of Compliance does not negate the requirement of a Certificate of Occupancy from the Northampton County Building Inspections Office when applicable.

 $\frac{10/30/2015}{\text{Date}}$

BEFORE THE NORTH CAROLINA UTILITIES COMMISSSION

The me infance of me wholevarion or	
Pecan Solar, LLC for an amended	
Certificate of Convenience and Public) VERIFICATION
Necessity and Application as a New	
Renewable Energy Facility	
company, verify that the contents of the and Convenience and Application for	of Pecan Solar, LLC, a North Carolina limited liability amended Application for a Certificate of Public Necessity a New Renewable Energy Facility filed in this docket are duly authorized to act on behalf of said limited liability
Sworn to and subscribed before me, thi	s the A day of July, 2016.
Notary Public (signature)	(Typed/ Printed Name)
My Commission Expires:	
My Commission Expires:	COMMONWEALTH OF PENNSYLVANIA
	NOTARIAL SEAL SUZANNE J. MORRISON, Notary Public Whitpain Twp., Montgomery County My Commission Expires April 2, 2017

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

Please complete the form, print it, have it signed, and notarized, and make 9 copies and send them to the Chief Clerk of the Commission.

You may also file this application electronically; please see www.ncuc.net/electronic filing.html for instructions. Be sure to attach additional information, such as maps, as required.

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

22 E 200	A hinaine oningient undithement	
1	Facility name:	Pecan Solar
To plantifiers market of the commerce	Full and correct name of the owner of the facility:	Pecan Solar LLC
3	Business address:	1925 Isaac Newton Square, Sulte 280 Reston, VA 20190
45	Electronic mailing address:	doug.copeland@edf-re.com
**************************************	Telephone number:	703-905-8110
Č.	Owner's agent for purposes of this application, if applicable:	Same as above
	Agent's business address:	
8	Agent's electronic mailing address:	,
S	Agent's telephone number:	
10	The owner is:	individual Partnership Corporation/LLC
A series	If a corporation, state and date of incorporation:	State NC Date 10/17/13
	If a corporation that is incorporated outside of North Carolina, is it domesticated in North Carolina?	YES NO
10	If a partnership, the name and business address of each general partner. (Add additional sheets if necessary.)	

14	Nature of the renewable energy facility:	Solar photovoltaic
	Describe the facility, including its technology, and the source of its power and fuel(s). Thermal facilities should describe how its host uses the facility's thermal energy output. (Add additional sheets if necessary.)	The facility will consist of approximately two hundred, seventy thousand, four hundred and eighty 330w to 370w photovoltaic (pv) modules affixed to single axis-tracking system and ground-mounted rack. The system will utilize thirty 2.5 MW inverter, thirty (30) medium voltage transformers and one step-up transformer and associated equipment.
16	Whether it produces electricity, useful thermal energy, or both:	electricity
**************************************	Nameplate capacity in kW/MW (AC) and/or maximum Btu per hour for thermal facilities:	74,900 kw (AC)
18	The facility's projected dependable capacity in kW AC and/or Btu/hour:	74,000 kw (AC)
The second secon	The E911 address of the facility:	289 Bethel Church Road, Pleasant Hill, Seaboard, NC
20	The county where the facility will be located:	Northampton
21	GPS coordinates for the center of the facility's site:	Latitude 36.489°, Longitude -77.482°
Trans. Res.	The location of the facility set forth in terms of local highways, streets, rivers, streams, or other generally known local landmarks. Attach a map, such as a county road map, with the location indicated on the map.	The facility is located approximately 2 miles west of Seaboard, NC off of Bethel Church Road. See attached arial map.
22	The site owner:	Daniel, Mumford, Howell, Flythe Land Holdings, Porter, Dunlow, Taylor, Wray & Moncure, Dickerson, Hart
23	What is the facility owner's legal interest in the site?	Purchase and lease options
List	the federal and state approvals that	are required to build and/or operate this facility,

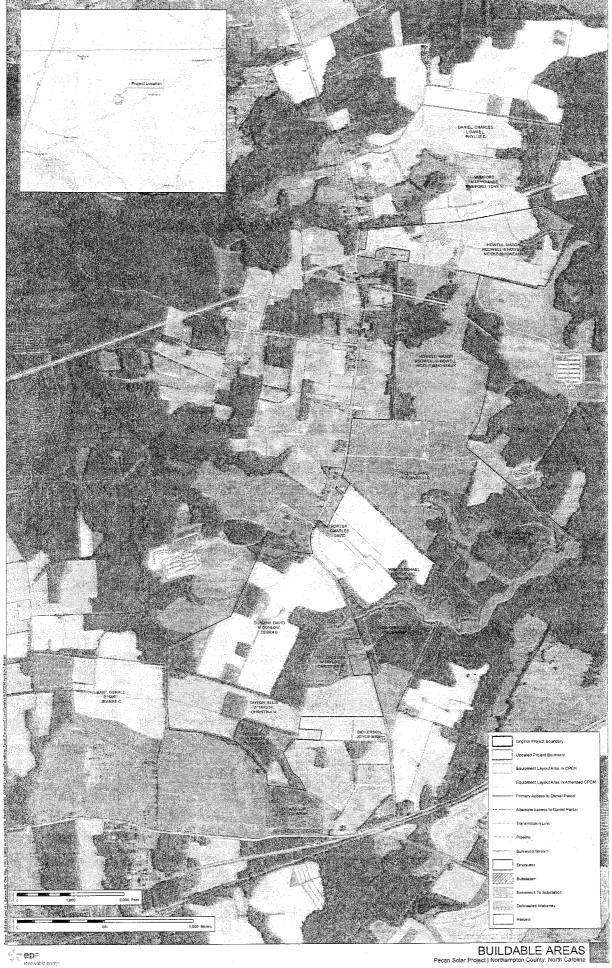
List the federal and state approvals that are required to build and/or operate this facility, and attach copies of those that have been obtained. Wind facilities with multiple turbines, where each turbine is licensed separately, may provide copies of approvals for one such turbine but shall add an attestation that approvals for all of the turbines are

ava	ilable for inspection.	
24	Federal permits and licenses:	None Required.
Z to	State permits and licenses:	North Carolina Dept of Environmental and Natural Resouces (NGDENR) - Approval of erosion and sedimentation control plans and Stormwater Management.
26	Exemptions required for construction and operation of the facility:	Nane Required.
The control of the co	Statement of whether each permit or exemption has been obtained or applied for (attach a copy of those that have been obtained with this application):	
28	If the facility has been placed into service, on what date did the facility begin operating?	
A construction of the second o	If the facility is not yet operating, on what date is the facility projected to be placed into service?	03/30/2018
30	If the facility is already operating, what is the amount of energy produced by the facility, net of station use, for the most recent 12-month or calendar-year period? Energy production data for a shorter time period is acceptable for facilities that have not yet operated for a full year.	
	What entity does (or will) read the facility's energy production meter(s) for the purpose of issuing renewable energy certificates?	PJM Interconnection, L.L. C. will read the facility's energy production meter for the prupose of issuing renewable energy certificates.

Secribe the method to be used to determine the facility's thermal energy production, in Btus per hour, that will be eligible for REC issuance. (Add sheets if necessary.) 33 Does the facility participate in a REC tracking system and if so, which one? If not, which tracking system will the facility participate in for the purpose of REC issuance? 34 If this facility has already been the subject of a proceeding or submittal before the Commission, such as a Report of Proposed Construction or a Certificate of Public Convenience and
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Necessity, please provide the
Commission Docket Number, if
available.
If the facility is a combined heat and power system, the owner shall also include in its
registration statement the following information:
35 A narrative description and one-
line diagram of the electrical and
thermal generation systems to
include Btu meters, boilers, steam
pressures, valves, turbines, and
ultimate uses of the steam. Also
include any crossover of steam,
cross connections (even if by
spool piece), or the ability to
supply steam from other means
or to other loads.
36 A description of the parasitic NA
electrical and parasitic thermal
loads. (Add sheets if necessary.)
37 Calculations for the energy used NA
by the parasitic electrical and
parasitic thermal loads, with
supporting documents. (Add
sheets as necessary.)

38	A description of the method of	NA
	collecting the waste heat from the	and the state of t
	electrical generating system. (Add	
	sheets as necessary.)	
39	A description of the host(s) of the	NA
	waste heat and an explanation of	· · · · · · · · · · · · · · · · · · ·
	how the waste heat will be used	
	and useful.	
40	Calculations of the percent of	And the second s
	energy that is delivered to the	The state of the s
:	system host(s) but not used	
	and useful.	
41	Confirmation if the proposed	NA.
	operation have any pressure-	
	reducing valves operating	
	simultaneously in parallel with	Rear SITTE
	any back-pressure turbines?	Andrew Transfer of the Control of th
If th		ple types of RECs by using a variety of fuels,
the	owner should include in its registrati	on statement the following additional
	rmation:	
42	Example calculations for the	NA
5 diam'r.	energy production associated with	IVA
	each fuel used by the facility as	reversibility
	required by Appendix C (Multi-fue)	
	Generation) to the Operating	
	Procedures for the North Carolina	
	Renewable Energy Tracking	
	System, These calculations must	A. Company
	ultimately show the electrical and	
	thermal energy (if any)	
	attributable to only the renewable	6 f >
	fuels and how the number of	
	renewable energy certificates	
	would be determined.	
43	Describe each fuel to be used by	ht A
10		NA CONTRACTOR OF THE CONTRACTO
	the facility:	
A.A.	the facility:	N.C.
AL.	the facility: Describe how the heat content of	NA
44	the facility: Describe how the heat content of each fuel is or will be determined	NA
44	the facility: Describe how the heat content of	NA

The owner of the renewable notarized:	e energy facility shall provide the following attestations, signed and
1. V Yes M	I certify that 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.
Substitution of Supering Super	I certify that the facility satisfies the requirements of G.S. 62-133.8(a)(5) or (7) as a:
Discourage and the second	newable energy facility, or
Ti	ew renewable energy facility,
And the second s	he facility will be operated as a:
IE	newable energy facility, or
	ew renewable energy facility.
3. V Yes No	certify that 1) my organization is not simultaneously under contract with NC GreenPower to sell REGs emanating from the same electricity production being tracked in NC-RETS; and 2) any
	renewable energy certificates (whether or not bundled with electric power) sold to an electric power supplier to comply with G.S. 62-133.8 have not, and will not, be remarketed or otherwise resold for any other purpose, including another renewable energy portfolio standard or
	voluntary purchase of renewable energy certificates in North Carolina (such as NC GreenPower) or any other state or country, and that the electric power associated with the certificates will not be offered or solo with any representation that the power is bundled with renewable energy certificates.
4 Yes Mo	I certify that I consent to the auditing of my organization's books and records by the Public Staff insofar as those records relate to transactions—with North Carolina electric power suppliers, and agree to provide the Public Staff and the Commission access to our books and records, wherever they are located, and to the facility.
5. V Yes No	I certify that the information provided is true and correct for all years that the facility has earned RECs for compliance with G.S. 62-133.8.
E. Yes No	I certify that I am the owner of the renewable energy facility or am duly authorized to act on behalf of the owner for the purpose of this filing.
THE MAN	Manager
(Stynature) 2.4	(Title)
Doug Copeland	7-37-76
(Name - Printed or Typed)	(Date)



tonewable energie

VERIFICATION

STATE OF	Mountage	COUNT	Y OF	HINIAU.	
TOUCA first duly sw	orn, says that the fauments, and statement	ersonally appea acts stated in	ared before	ore me this day egoing application	on and any
WITNESS my	y hand and notarial se	al, this 27 ^{T2}	_day of	July -	. 20 <u>16</u> 2.
My Commiss	ion Expires:				
Signature of I	Notary Public	<u>ion</u>		NWEALTH OF PENNS) NOTARIAL SEAL NE J. MORRISON, Notal pain Twp., Montgomery Commission Expires April 2	y Public nunty
Name of Nota	ary Public – Typed or F	Printed			

The name of the person who completes and signs the application must be typed or printed by the notary in the space provided in the verification. The notary's name must be typed or printed below the notary's seal. This original verification must be affixed to the original application, and a copy of this verification must be affixed to each of the 15 copies that are also submitted to the Commission.

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 06/30/2019

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

General

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

Who Must File

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

How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button () for assistance, or contact Commission staff at FormS56@ferc.gov.

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

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

How to File a Completed Form 556

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

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

Paperwork Reduction Act Notice

This form is approved by the Office of Management and Budget. Compliance with the information requirements established by the FERC Form No. 556 is required to obtain or maintain status as a QF. See 18 C.F.R. § 131,80 and Part 292. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated burden for completing the EERC Form No. 556, including gathering and reporting information, is as follows: 3 hours for self-certification of a small power production facility, 8 hours for self-certifications of a cogeneration facility, 6 hours for an application for Commission certification of a small power production facility, and 50 nours for an application for Commission certification of a cogeneration facility. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the following: information Clearance Officer, Office of the Executive Director (ED-32); Federal Energy Regulatory Commission, 888 First Street N.E., Washington, DC 20426 (DataClearance@ferc.gov); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (oira submission@omb.eop.gov). Include the Control No. 1902-0075 in any correspondence.

Electronic Filing (eFiling)

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

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

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

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

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

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

Filing Fee

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

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

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

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

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

Required Notice to Utilities and State Regulatory Authorities

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

What to Expect From the Commission After You File

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

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

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

Waiver Requests

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

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

Geographic Coordinates

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

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

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

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

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

In	on-Public: Applic dicated below. The (separate) pu	his non-public v	ersion of the ap	plicant's Forn	Eli status for d 1.556 contains	ata contained ir ali data, includ	n the Form 556 li ing the data that	nes is redacted
	ublic (redacted): dicated below. T dicated below, wi	his public versio	in of the applica	treatment an ints's Form 55	d/or CEli statu 6 contains all	s for data conta data <u>except</u> for	sined in the Form data from the lin	: 556 lines es
Privileged: Indicate below which lines of your form contain data for which you are seeking privileged treatment								
CONTROL OF THE PARTY OF THE PAR								
	al Energy Infrasi ng CEII status	tructure inform	ation (CEII): In	dicate below	which lines of	your form cont	ain data for whic	h you are

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

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

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 06/30/2019

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

16 Applicant street a 1925 Isaac Net	ddress ton Square, Suite 280		
ic City Reston		1d State/prov	ince
1e Postal code 20190	1f Country (if not United States)	A service of the serv	1g Telephone number (703) 905–8110
1h Has the instant fac	ility ever previously been certified as a Q	F? Yes 🔯 N	Vo. []
Ti If yes, provide the	locket number of the last known QF filing	pertaining to ti	nis facility: QF15 - 668 - 000
1j Under which certif	cation process is the applicant making th	is filing?	The control of the co
Notice of self-ce (see note below)	tification A	oplication for Co e; see "Filing Fee	ommission certification (requires filing e" section on page 3)
QF status. A notice of self-cert	f-certification is a notice by the applicant e of self-certification does not establish a fication to verify compliance. See the "W for more information.	proceeding, an	d the Commission does not review a
1k What type(s) of QF	status is the applicant seeking for its faci	lity? (check all th	nat apply)
Qualifying small	power production facility status Q	ualifying cogene	eration facility status
	e and expected effective date(s) of this fil	_	
Original certifica	tion; facility expected to be installed by	ā	nd to begin operation on
	eviously certified facility to be effective of of change(s) below, and describe change	Section of the Contract of the	laneous section starting on page 19)
Name change	and/or other administrative change(s)		
	mership		
☑ Change(s) aff	ecting plant equipment, fuel use, power	oroduction capa	city and/or cogeneration thermal outpu
Remodelate 1	rrection to a previous filing submitted or	. Milliand advances grown as a million of attached the 25 ()	
E 423 ·	plement or correction in the Miscellaneo		
	ring three statements is true, check the b ble, explaining any special circumstances		
The Instant fac	lity complies with the Commission's QF r ited by the Commission in an order dated iscellaneous section starting on page 19)	equirements by	
	lity would comply with the Commission's ith this application is granted	GP requiremen	ts if a petition for waiver submitted
employment o	lity complies with the Commission's regul unique or innovative technologies not c tion of compliance via this form difficult o	ontemplated by	the structure of this form, that make

		SOCIAL PROPERTY OF THE PROPERT				
	Ze Name of contact person2b Telephone numberDoug Copeland(703) 905-8110	- Comment of the state of the s				
	2c Which of the following describes the contact person's relationship to the applicant? (check one)					
	Applicant (self) Employee, owner or partner of applicant authorized to represent the applicant					
	Employee of a company affiliated with the applicant authorized to represent the applicant on this matter					
ations of the second	Lawyer, consultant, or other representative authorized to represent the applicant on this matter					
Autor Marks	2d Company or organization name (if applicant is an individual, check nere and skip to line 2e)					
Ō	EDF Renewable Energy	an en				
Contact Information	2e Street address (if same as Applicant, check here and skip to line 3a) ⊠					
Ë						
~	2f City 2g State/province	Andrew in a Supplement				
and the state of t		abeliji dan deboo				
	2h Postal code 2i Country (if not United States)	1 - 100.000 (r. c.)				

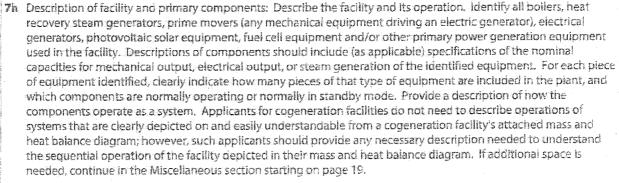
geometric services	3a Facility-name Pedan Solar	N PRINCIPAL AND				
extension contractor						
S	3b Street address (if a street address does not exist for the facility, check here and skip to line 3c) 289 Bethel Church Road, Pleasant Hill, Seaboard, NC					
source:	Saa becuer cumment grant, transmit urrr, camenra, in	Parties of Section 1977				
ty Identification and Location	3c Geographic coordinates: If you indicated that no street address exists for your facility by checking the box then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal plate following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 4 for help. I provided a street address for your facility in line 3b, then specifying the geographic coordinates below is o	aces). Use == fyou				
	Longitude	P				
	3d City (If unincorporated, check here and enter nearest city) Se State/province	THE PROPERTY AND PROPERTY OF THE PROPERTY OF T				
3 3000 C	3f County (or check here for independent city) 3g Country (if not United States) Northampton	The Atlanta				
Andrew Commencer	Identify the electric utilities that are contemplated to transact with the facility.	All a survey for a communication of the communicati				
V						
1	4a Identify utility interconnecting with the facility Dominion North Carolina Power					
F STATE OF THE STATE OF T	Demand No. 11 Carolina and American Space (Space Space No.					
	4b Identify utilities providing wheeling service or check here If none					
	4c Identify utilities purchasing the useful electric power output or check here if none					
Tansacing Ulles	### TBD ### Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible service or check here if none []	power				
	Dominion North Carolina Power					

The state of the s	Direct ownership as of effective date or operation date: Identify all direct owners of the facility holding at least percent equity interest. For each identified owner, also (1) indicate whether that owner is an electric utility, a defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company, as defined in sec 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) for owners which are utilities or holding companies, provide the percentage of equity interest in the facility held by that owner. If direct owners hold at least 10 percent equity interest in the facility, then provide the required information fo two direct owners with the largest equity interest in the facility.						
Signature of the state of the s		ensures: ountrivites includes equity interest in including.	Electric utility or				
- Carrier of the Carr		P. R.S J	holding	% equity interest			
No. Colombia		Full legal names of direct owners	company				
on the state of th	: 5	EDF Renewable Energy, Inc.	Yes No 🛚	()			
Continue and the contin	2)		Yes No	*			
- Company	3)		Yes ☐ No ☐	i i			
10 mm - 1 mm - 1 mm	4)		Yes ☐ No ☐] <u> </u>			
Acceptable	5)		Yes No	3			
Company (department)	6)		Yes No [Section 1			
der SIII. in der Vers	7)		Yes ☐ No ☐	3			
albert of the state of the stat	8)		Yes No				
_	9)		Yes No	A MANAGEMENT OF THE PARTY OF TH			
	10		Yes No	1 %			
ā	10	Check here and continue in the Miscellaneous section starting on page 19 if addit					
Ownership and Operation	iji	defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr equity interest in the facility held by such owners. (Note that, because upstream owners) another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist. Full legal names of electric utility or holding company upstream owners.	rovide the percen ers may be subsid	tage of			
				100%			
and the same of th	1	EDF Energies Nouvelles S. A.	oonsalade. Meet meet also assesses on the second desired as a second defect containing the second desired as a	100%			
and the second s	2)	Electricite de France S. A.		E4.5%			
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1	9)						
	10			8			
Court of the Court	of the same of	Check here and continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section section section starting on the Miscellaneous section secti	onal space is nee	led			
annihali paletti versustanianan	4	Identify the facility operator DF Renewable Energy	den somme vermeller erkeller efte sode veter in zoner testenpillere erfölker freihe sich eine	usususus suuded ta opi ta te kinnonna ja ta oona josta kinnonna kinnonna suuris suuris saan kinnonna suuris sa			

FER	RC F	orm 556						Page 8	3 – All Facilities
***************************************	6a	Describe t	he primary energy input; (ci	ieck one ma	in ca	stegory and, if applicable, o	one subcateg	jory)	ORIGINA (1994)
		Bioma	ss (specify)	⊠ Re	enev	vable resources (specify)	☐ Geoth	ermal	
			Landfill gas			Hydro power - river	☐ Fossil	fuel (speci	fy)
			Manure digester gas			Hydro power - tidal		Coal (not)	waste)
			Municipal solid waste			Hydro power - wave		Fuel oll/dl	esel
			Sewage digester gas		X	Solar - photovoltaic		Natural ga	s (not waste)
			Wood			Solar - thermal		Other foss	
			Other biomass (describe on	page 19)	- Market and	Wind	B-street	(aescribe i	on page 19)
	-	□ Waste	(specify type below in line 6	b)		Other renewable resource (describe on page 19)	☐ Other	(describe (on page 19)
	бb	If you spec	cified "waste" as the primary	energy inpu	ut in	line 6a, indicate the type o	if waste fuel (used: (che	ck one)
		☐ Wast	e fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecify	one of the following)			
5			Anthracite culm produced	prior to July	23,	1985			
		Anthracite refuse that has an average heat content of 6,000 Btu or less per pound and has an average ash content of 45 percent or more							
		Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more							
	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has determined to be waste by the United States Department of the Interior's Bureau of Land (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, put the applicant shows that the latter coal is an extension of that determined by BLM to be waste.							of Land Ma liction, pro	anagement wided that
Energy Input			Coal refuse produced on F BLM or that is located on n applicant shows that the la	on-Federal	or n	on-Indian lands outside of	BLM's jurisdi	ction, prov	aste by the vided that
L.		Gammara M	Lignite produced in associate as a result of such a mining	ation with the operation	ne pi	oduction of montan wax a	nd lignite th	at become	es exposed
		. The state of the	Gaseous fuels (except natu	ral gas and	synt	hetic gas from coal) (descri	be on page 1	(9)	
-		- generation of the control of the c	Waste natural gas from gas C.F.R. § 2.400 for waste nat compliance with 18 C.F.R.	ural gas; inc	(des	scribe on page 19 how the with your filing any mater	gas meets th rials necessar	e requirer y to demo	nents of 18 Instrate
			Materials that a governme	nt agency h	as ce	rtified for disposal by com	bustion (des	cribe on p	age 19)
		and the same of th	Heat from exothermic read	tions (descr	ibe c	on page 19)	Residual heat		
			Used rubber tires] Plastic ma	rteria	is Refinery of	f-gas	☐ Petro	leum 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)							the fuel's	
	бc	energy in	e average energy input, calc puts, and provide the related). For any oil or natural gas l	i percentag	e of	the total average annual er	nergy input t	e following o the facili	g fossil fuel ty (18 C.F.R. §
Will consider the constant of	4					average energy	Percentage annual energ		-
	- Company		Fuel Natural gas	np.	ur r	or specified fuel 0 Btu/h	(2151513425 C11C15	0 %	
disconnection .	VINITA I TOTAL INTERNATIONAL I		Oil-based fuels	· · · · · · · · · · · · · · · · · · ·	in April and	0 Btu/h		0 %	
**************************************	Die samme war		Coal		-er	0 Btu/h		0 %	

Indicate the maximum gross and maximum net electric power production capacity of the facility at the point(s) of delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/or losses identified in lines 7b through 7e are negligible, enter zero for those lines.

7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	75,000 kV
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	. 144
reported barasia statum povetr	o kW
7c Electrical losses in Interconnection transformers	500 k M
7d Electrical losses in AC/DC conversion equipment, if any	O kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	500 kW
7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	1,600.0-KW
7g Maximum net power production capacity = 7a - 7f	74,000.0 kW



The facility is a single-axis tracking, ground mounted solar system consisting of approximately two hundred, seventy thousand, four hundred and eighty (270,480) 330w to 370w photovoltaic (pv) modules, thirty (30) 2.5 MW inverters, thirty 645 v to 34.5 kv transformer and one 34.5 to 115 kv step-up transformer and associated equipment.

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

n	nust r	espond to the items on this page. Otherwise, skip page 10.	
	-	Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable).	***
		Ba Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holat least a 5 percent equity interest.	ds
9		Check here if no such facilities exist. 🔀	
of Complian	2	Facility location Root docket # Maximum net pow (city or county, state) (if any) Common owner(s) production capacit	
\subseteq $\dot{\uparrow}$	5	1) QF - K	W
S	menti nelatr nelatr nelatr	QF - k	W
0		QF - K	W
	Ž	Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed	7
Certification of Compliance		Bb. The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? Yes (continue at line 8c below) No (skip lines 8c through 8e)	TOTAL WATER STREET, AND A THE STREET, AND A THE STREET, AND A STREET, AN
		Bc Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes No	
	- Andrewsky desired to the second	Bd Dld construction of the facility commence on or before December 31, 1999? Yes No	
	All novel post post processed sectors of section and an extensive section of the	Be if you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes [No [] If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility.	• • • • • • • • • • • • • • • • • • •
Certification of Compliance	A Commission of the control of the c	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: Ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.	CONTRACTOR AND AND ADDRESS OF A DESCRIPTION OF A DESCRIPT
U Š	Ĭ	Read Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:	
	י מ	Applicant certifies that the facility will use fossil fuels exclusively for the purposes listed above.	Down philade
		9b Certification of compliance with 18 C.F.R. 5 292.204(b) with respect to amount of fossil fuel used annually:	
		Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.	

Information Required for Cogeneration Facility

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

LC. MIZE		
Control Contro	energy (such as heat or use of energy. Pursuant cycle cogeneration facil thermal application or p	92.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a toppinglity, the use of reject heat from a power production process in sufficient amounts in a process to conform to the requirements of the operating standard contained in 18 C.F.R. § ottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal propower production.
oo tarahan ayan ayan ayan ayan ayan ayan ayan	10a What type(s) of cog	generation technology does the facility represent? (check all that apply)
TOTAL CONTRACTOR CONTR	Topping-cycle	e cogeneration Bottoming-cycle cogeneration
entra e servicio della Contra d	other requirement balance diagram d meet certain requii	te the sequential operation of the cogeneration process, and to support compliance with is such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and rements, as described below. You must check next to the description of each requirement at you have complied with these requirements.
Developed to the state of the s	Check to certify compliance with	
Mark profession Spaces	indicated requirement	Requirement
	All Daniel Control of the Control of	Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
	PARELLE - F	Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.
General Cogeneration Information	products 	Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.
2	Emmany of	Diagram must specify average gross electric output in kW or MW for each generator.
5	gradum q	Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
man is — if the action is come date to make the property of all the contractions of an		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/n or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/(lb*R) or 4.195 kJ/(kg*K).
Blantpill and a second a second and a second a second and		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
unda alaka hasaba kasaba alaka a		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
	michand P	Diagram must specify working fluid flow conditions at make-up water inputs.

Agent See Agent Agent See Agent Agent See Agent Agent See Agent Se	EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.	, dansi .
3	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	
	11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No	
	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.	
1	11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?	A STATE OF THE STA
MILLO CHEMING HOLD	Yes (continue at line 11d below)	
TOTAL SECTION AND LANGE TO A CONTRACT OF THE PARTY OF THE	No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.	
	11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?	
y. application of a facility representation of MAMMATANA CO.	Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.	
4.08.0 (A) 10.0 (A)	No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.	
S. S.	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	
or contracted to the TLIBE	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	
11 sample of Millian ald Labraton company (1990) payment	No. Applicant certifies that energy will not be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) before selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.	
A CONTRACTOR OF THE PROPERTY O	11f is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?	19-10 14-10 14-10
e en és uma jobacidad desembrima politima que mejora a jobación con politica en la casa de	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.	
a construction of the second colors of the second	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11q.	

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

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

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

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

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

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

	emical and mechanical energy output (net of internal	
generation plant losses and parasitic l	oads) expected to be used annually for industrial,	To according to
commercial, residential or institutiona	purposes and not sold to an electric utility	MWh
71h Total amount of electrical, therm	al, chemical and mechanical energy expected to be	
sold to an electric utility		NWN.
111 Percentage of total annual energ	y output expected to be used for industrial,	
commercial, residential or institutiona	purposes and not sold to a utility	
= 100 * 11g /(11g ÷ 11h)		0.96

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

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

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

the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the

relevant annual standard, taking into account expected variations in production conditions.

thermal output

4				
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Street the service of the production which there is also being the	The second of the second of the second	Mills after \$100 to after barrer days in these after	freezert en france and	and the state of t
F 6 B 7 4 B 6 6 B 7 1 6 F 4 C 3 C 7	The second of the second of the		and the first terms to the first terms to	
2 1 1 2 4 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the same with the same with			eration Facility
	and the second second second	The same of the sa	and the same and t	The same and the same same same same same same same sam

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

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

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

Average annual rate of

endemodinish sither (Addiomograms	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	attributable to use (net of heat contained in process return or make-up water)
1)		Select thermal host's relationship to facility	
		Select thermal host's use of thermal output	Btu/h
2)	Theorem and the state of the st	Select thermal host's relationship to facility	er might et eit bereicht.
(.X.,)		Select thermal host's use of thermal output	Bhwh
13)	Administration of the Control Control	Select thermal host's relationship to facility	Terror on Hills 15
304 1		Select thermal host's use of thermal output	Buth
4)		Select thermal host's relationship to facility	the control of the co
7		Select thermal host's use of thermal output	Bb/h
5)		Select thermal host's relationship to facility	
,,,		Select thermal host's use of thermal output	Btu/h
6)	· · · · · · · · · · · · · · · · · · ·	Select thermal host's relationship to facility	The state of the s
υ)		Select thermal host's use of thermal output	Btu/h

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

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

No (does not comply with efficiency standard)

No (does not comply with efficiency standard)

m 556	rage is roppi	ing-Cycle Cogeneration Facilities
cycle operating standard and, if applic regulations (18 C.F.R. § 292.205(a)(1)) of the useful thermal energy output must (18 C.F.R. § 292.205(a)(2)) establishes the installation commenced on or after Michermal energy output must (A) be no facility; and (B) if the useful thermal enbeno less than 45 percent of the total compliance with the topping-cycle op	capping-cycle technology must demonstrate or cable, efficiency standard. Section 292.205(a) (establishes the operating standard for topping at be no less than 5 percent of the total energy the efficiency standard for topping-cycle coger arch 13, 1980: the useful power output of the less than 42.5 percent of the total energy input of the total energy input of natural gas and oil to the facilierating and/or efficiency standards, or to demonstrate on the date that installation commenced	1) of the Commission's g-cycle cogeneration facilities: voutput. Section 292.205(a)(2) neration facilities for which facility plus one-half the useful ut of natural gas and oil to the all energy output of the facility, lity. To demonstrate nonstrate that your facility is
technology, then respond to lines 13a attributable to the topping-cycle porti	cility represents both topping-cycle and botto through 13I below considering only the energ on of your facility. Your mass and heat baland d system components are for which portion (1	gy inputs and outputs te diagram must make clear
	of useful thermal energy output made availab	
to the host(s), net of any heat containe 13b Indicate the annual average rate (ed in condensate return or make-up water	Btu/h
:50 marcare the annual average rate	of net electrical energy output	kw
3c Multiply line 13b by 3,412 to conv	ert from kW to Btu/h	p Btu/h
	of mechanical energy output taken directly of oses not directly related to power production	n.
13e Multiply line 13d by 2,544 to con-	vert from hp to Btu/h	ื่อ Btu/h
137 Indicate the annual average rate o	of energy input from natural gas and oil	Stu/h
13g Topping-cycle operating value =	100 * 13a / (13a + 13c + 13e)	0.%
13h Topping-cycle efficiency value =	100 * (0.5*13a + 13c + 13e) / 13f	0 %
		(7.7%)
13í Compliance with operating standa	ard: Is the operating value shown in line 13g g	
136 Compliance with operating standa	erd: Is the operating value shown in line 13g c standard) \(\sum \text{No (does not comply)}	
Yes (complies with operating		greater than or equal to 5%? with operating standard)
Yes (complies with operating 13] Did installation of the facility in its Yes. Your facility is subject to t	standard) No (does not comply	greater than or equal to 5%? with operating standard) , 1980? 205(a)(2). Demonstrate

131 Compliance with efficiency standard (for high operating value): If the operating value shown in line 13g is greater than or equal to 15%, then indicate below whether the efficiency value shown in line 13h is greater than or

Yes (complies with efficiency standard)

Yes (complies with efficiency standard)

equal to 42.5%:

Information Required for Bottoming-Cycle Cogeneration Facility

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

	wh the	ich at least some of the reject hea Commission's regulations (18 C.I le codeneration facility must be u	oming-cycle cogeneration facility is the energy relations the state of the communities of the energy relation. Pursuant to see 1.9. § 292.202(c) and (e)), the thermal energy outputered. In connection with this requirement, described for power production by responding to lines 14a.	ections: 292,202(c) and (e) of t of a qualifying bottoming- e the process(es) from which		
	A THE STATE OF THE	host. For hosts with multiple be separate rows. Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production.	mal host and each bottoming-cycle cogeneration pottoming-cycle cogeneration processes, provide the other pottoming cycle cogeneration processes, provide the Thermal host's relationship to facility; Thermal host's process type	rocess engaged in by each e data for each process in Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)		
	Marin marine artists		Select thermal host's relationship to facility	Yes [] No []		
		Section (Control of the Control of t	Select thermal host's process type			
0)	2)		Select thermal host's relationship to facility	Yes No []		
3	W/		Select thermal host's process type			
And the second	3	is a differentitive.	Select thermal host's relationship to facility	Yes T No T		
			Select thermal host's process type			
5 4	Check here and continue in the Miscellaneous section starting on page 19 if additional space is need					
Usefulness of Bottoming-Cycle Thermal Output	ide fac mu ade pre fac to t	ntified above. In some cases, this lifty's process is not common, and ist provide additional details as no littonal information may be requisionally received a Commission of lifty, then you need only provide the order certifying your facility.	f thermal output: At a minimum, provide a brief destrict description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not necessary to demonstrate usefulness. Your applicationed if an insufficient showing of usefulness is made ertification approving a specific bottoming-cycle probability of the process and a reference by with the indicated process. Such exemption may not hade.) If additional space is needed, continue in the	iness. However, if your easonably clear, then you on may be rejected and/or . (Exception: If you have ocess related to the Instant y date and docket number t be used if any material		
	Prince Dolland					
	CARLO SERVICE			•		
		•				
	THE PERSON NAMED IN					

Bottoming-Cycle Operating and Efficiency Value Calculation

than or equal to 45%:

Yes (complies with efficiency standard)

orm 556 Page 17 - Bottomir	ng-Cycle Cogeneration Facilities
Applicants for facilities representing bottoming-cycle technology and for which instal March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standard the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard cogeneration facilities: the useful power output of the facility must be no less than 4 of natural gas and oil for supplementary firing. To demonstrate compliance with the standard (If applicable), or to demonstrate that your facility is exempt from this standard installation of the facility began, respond to lines 15a through 15h below.	andards. Section 292,205(b) of ard for bottoming-cycle 5 percent of the energy input bottoming-cycle efficiency
If you indicated in line 10a that your facility represents both topping-cycle and bottom technology, then respond to lines 15a through 15h below considering only the energy attributable to the bottoming-cycle portion of your facility. Your mass and heat balan which mass and energy flow values and system components are for which portion of (topping or pottoming).	ly inputs and outputs nce diagram must make clear
15a Did installation of the facility in its current form commence on or after March 13, Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.20 with the efficiency requirement by responding to lines 15b through 15h belo No. Your facility is exempt from the efficiency standard. Skip the rest of page	5(b). Demonstrate compliance w.
15b Indicate the annual average rate of net electrical energy output	kW
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	⊕ Btu/h
15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)	. h p
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	@ Btu/h
15f Indicate the annual average rate of supplementary energy input from natural gas or oil	8tu/h
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 %

15h Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater

No (does not comply with efficiency standard)

Certificate of Completeness, Accuracy and Authority

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

rejected by the Secretary of the Commis	sion.	
Signer identified below certifies the follo	wing: (check all items and applicable subitem	5)
mass and heat balance diagrams, ar knows its contents.	ng any information contained in any attached nd any information contained in the Miscellan	eous section starting on page 19, and
He or she has provided all of the red to the best of his or her knowledge	uired information for certification, and the pro and belief.	ovideri information is true as stated.
He or she possess full power and au Practice and Procedure (18 C.F.R. § 3	thority to sign the filing; as required by Rule 2: 885.2005(a)(3)), he or she is one of the followin	005(a)(3) of the Commission's Rules of g: (check one)
☐ The person on whose behalf	f 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 employ filing is made	e of the governmental authority, agency, or in	strumentality on behalf of which the
Practice and Procedure (18)	practice before the Commission under Rule 3 C.F.R. § 385.2701) and who possesses authority	y to sign
He or she has reviewed all automati	c calculations and agrees with their results, ur age 19.	less otherwise noted in the
interconnect and transact (see lines facility and those utilities reside. Se page 3 for more information. Provide your signature, address and sign Procedure (18 C.F.B. \$ 385,2005ic)) provi	is Form 556 and all attachments to the utilities 4a through 4d), as well as to the regulatory at a the Required Notice to Public Utilities and Strature date below. Rule 2005(c) of the Commides that persons filing their documents electrified documents. A person filing this docume vided below.	rthorities of the states in which the late Regulatory Authorities section on ssion's Rules of Practice and oncolonically may use typed characters.
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Miscellaneous

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

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

July, 2016

1b-le Updated for new applicant information

2a-2d Updated for new contract information

4c Updated to indicate Dominion North Carolina Power is not purchasing the output

5a Updated to reflect a change in direct ownership

5b Updated to add upstream owners

5c Update to reflect updated facility operator

7a-7h updated to reflect changes in the design of the Facility

EXHIBIT 2

to
Direct Testimony of Doug
Copeland

BY ELECTRONIC SURMISSION

September 20, 2016

Gail L. Mount Chief Clerk North Carolina Utilities Commission 430 North Salisbury Street Raleigh, North Carolina 27603

Re:

Docket No. SP-5273, Sub 0

Pecan Solar, LLC - Amended Application for a Certificate of Public Convenience and Application to Register a New Renewable Energy Facility.

Dear Clerk Mount:

On June 17 and August 24, 2015 the North Carolina Utilities Commission issued an order granting a certificate and an amended certificate of public convenience and necessity for Pecan Solar, LLC respectively. On July 27, Pecan Solar LLC requested a second amended certificate of public convenience and necessity. Pecan Solar is now requesting a third amended certificate of public convenience and necessity to include additional land parcels. We understand that the North Carolina Utilities Commission will be issuing an amended order to publish.

In support of its amended application, Pecan Solar is providing information to the Commission that has changed from the previous filings:

1. Exhibit (1)(iii)

The following additional leases have been signed:

- I. James E. Kerr, II
- 2. JEKerr Timber Company
- 2. Exhibit (2)(i) Attachment 1 to Exhibit 2 is amended to show the existing and new landowners along with the location of the major equipment.

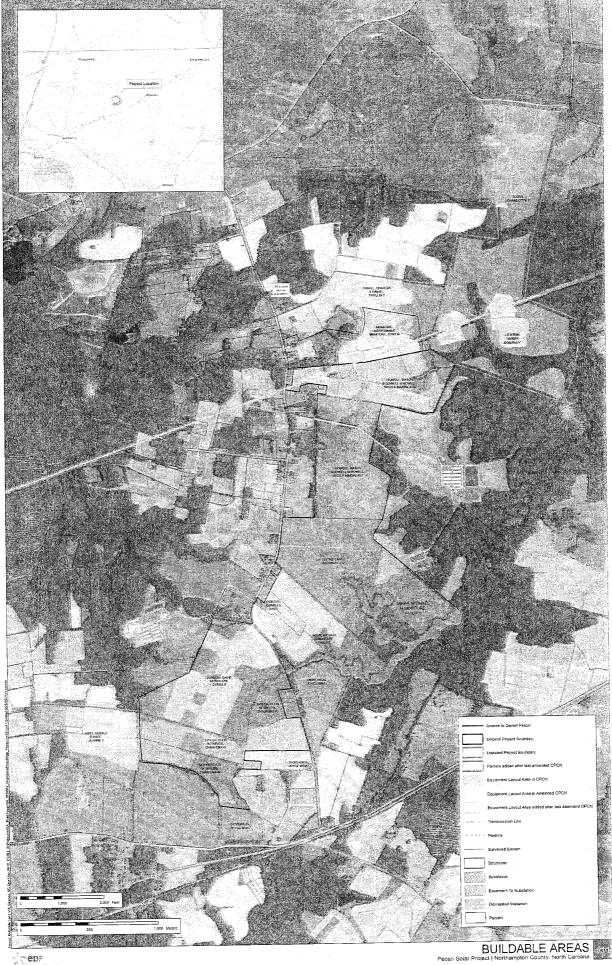
Sincerely

Doug Copeland

Pechal Solar LLC

BEFORE THE NORTH CAROLINA UTILITIES COMMISSSION

You the Minterior of the Application of	·
In the Matter of the Application of	
Pecan Solar, LLC for an amended	
Certificate of Convenience and Public) VERIFICATION
Necessity and Application as a New	
Renewable Energy Facility	
and the state of t	
The second secon	
company, verify that the contents of the a and Convenience and Application for a	f Pecan Solar, LLC, a North Carolina limited liability mended Application for a Certificate of Public Necessity New Renewable Energy Facility filed in this docket are duly authorized to act on behalf of said limited liability
Company Copper Val	
Doug Copeland	
Commence of the second	
Sworn to and subscribed before me, this t	he 23rd day of Sentember, 2016.
DWOIN to and Substitute orange ine, and	Also produced the second secon
Commence of the second	. The second sec
	Cha-Lin from
Nower Public (signature)	(Typed/ Printed Name)
Tanama 1. 2 menuran dara Companyan	
My Commission Expires:	COMMONWEALTH OF PENNSYLVANIA
	NOTARIAL SEAL
	CHIA-LIN FAN
	Notary Public CITY OF PHILADELPHIA PHILADELPHIA CNTY
	My Commission Expires Jul 27, 2020



TepF