

October 6, 2016

#### **Via Electronic Filing**

Oregon Public Utility Commission puc.filingcenter@state.or.us

RE: Copy of FERC Form 556 for Bottlenose Solar, LLC

To Whom It May Concern:

Pursuant to 18 C.F.R. § 292.207(c)(1), we are enclosing a copy of the Form 556, Certification of Qualifying Facility (QF) Status, for **Bottlenose Solar, LLC**, as filed with the Federal Energy Regulatory Commission in Docket No. QF17-3-000.

At this time, we kindly request that you file the enclosed materials in Docket No: RE 26, Self-Certification as FERC Qualifying Facility – FERC Form 556.

Thank you for your assistance with this matter. If you should require additional information and/or have any questions regarding the enclosed materials, please feel free to contact me directly at regulatory@ccrenew.com.

Thank you,

#### Nikki Anas

Cypress Creek Renewables, LLC



Enclosure

From:

eFiling@ferc.gov

To: Subject: Date: Nikki Anas; eFilingAcceptance@ferc.gov FERC Acceptance for Filing in QF17-3-000

Tuesday, October 04, 2016 5:26:33 AM

#### 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):

-Accession No.: 201610035383, 201610035384

-Docket(s) No.: QF17-3-000

-Filed By: Cypress Creek Renewables, LLC

-Signed By: Evan Riley

-Filing Type: Qualifying Facility Application or PURPA Energy Utility Filing

-Filing Desc: Form 556 of Bottlenose Solar, LLC under OF17-3.

-Submission Date/Time: 10/3/2016 12:41:41 PM

-Filed Date: 10/3/2016 12:41:41 PM

Your submission is now part of the record for the above Docket(s) and available in FERC's eLibrary system at:

http://elibrary.ferc.gov/idmws/file\_list.asp?accession\_num=20161003-5383

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

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.

**PUBLIC (REDACTED)** 

#### 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

#### 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 Form556@ferc.gov.

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

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

## How to File a Completed Form 556

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

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

## Paperwork Reduction Act Notice

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

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

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

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

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

FERC Form 556 PUBLIC (REDACTED) Page 3 - Instructions

#### 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 <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a> 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 <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a> and clicking the Notice Requirements link.

#### What to Expect From the Commission After You File

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

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

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

## **Waiver Requests**

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

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

#### **Geographic Coordinates**

If a street address does not exist for your facility, then line 3c of the Form 556 requires you to report your facility's geographic coordinates (latitude and longitude). Geographic coordinates may be obtained from several different sources. You can find links to online services that show latitude and longitude coordinates on online maps by visiting the Commission's QF webpage at <a href="https://earth.google.com">www.ferc.gov/QF</a> 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 <a href="http://earth.google.com">http://earth.google.com</a>), 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 <a href="https://www.ferc.gov/help/filing-guide/file-ceii.asp">www.ferc.gov/help/filing-guide/file-ceii.asp</a> for more information.

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

Non-Public: Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This non-public version of the applicant's Form 556 contains all data, including the data that is redacted in the (separate) public version of the applicant's Form 556.
Public (redacted): Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines  indicated below. This public version of the applicants's Form 556 contains all data except for data from the lines indicated below, which has been redacted.
Privileged: Indicate below which lines of your form contain data for which you are seeking privileged treatment
Section 5b
Critical Energy Infrastructure Information (CEII): Indicate below which lines of your form contain data for which you are seeking CEII status

The eFiling process described on page 2 will allow you to identify which versions of the electronic documents you submit are public, privileged and/or CEII. The filenames for such documents should begin with "Public", "Priv", or "CEII", as applicable, to clearly indicate the security designation of the file. Both versions of the Form 556 should be unaltered PDF copies of the Form 556, as available for download from <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a>. 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 filer errors, including those errors related to security designation. If your documents contain sensitive information, make sure they are filed using the proper security designation.

PUBLIC (REDACTED)

## 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

1b Applicant street a 3250 Ocean Pa Suite 355			
1c City		1d State/prov	ince
Santa Monica		CA	
<b>1e Postal code</b> 90405	1f Country (if not United States)		<b>1g</b> Telephone number (310) 581–6299
1h Has the instant fa	cility ever previously been certified as a Q	F? Yes 🔲 N	No 🛛
1i If yes, provide the	docket number of the last known QF filing	pertaining to tl	his facility: QF
1j Under which certi	ication process is the applicant making th	is filing?	Additional of the control of the con
Notice of self-ce	ertification A	pplication for Co e; see "Filing Fe	ommission certification (requires filing e" section on page 3)
QF status. A noti notice of self-cer	If-certification is a notice by the applicant ce of self-certification does not establish a tification to verify compliance. See the "Was for more information.	proceeding, an	d the Commission does not review a
1k What type(s) of Q	F status is the applicant seeking for its fac	lity? (check all th	nat apply)
Qualifying smal	power production facility status	ualifying cogen	eration facility status
11 What is the purpor	se and expected effective date(s) of this fil	ing?	
Original certification	ation; facility expected to be installed by	3/15/18 a	nd to begin operation on 4/1/18
_	previously certified facility to be effective		
	) of change(s) below, and describe change	e(s) in the Miscel	laneous section starting on page 19)
	ge and/or other administrative change(s)		
Change in o			
	fecting plant equipment, fuel use, power		acity and/or cogeneration thermal outpu
	orrection to a previous filing submitted or pplement or correction in the Miscellanec		ng on page 10)
	wing three statements is true, check the b		
	sible, explaining any special circumstance		
☐ previously gra	cility complies with the Commission's QF on ted by the Commission in an order date Miscellaneous section starting on page 19	d	virtue of a waiver of certain regulations (specify any other relevant waiver
	cility would comply with the Commission' with this application is granted	s QF requiremer	nts if a petition for waiver submitted
employment of	cility complies with the Commission's region of unique or innovative technologies not cation of compliance via this form difficult	ontemplated by	y the structure of this form, that make

	2a Name of contact person			2b Telephone number	7
	Evan Riley			(310) 581-6299	
	2c Which of the following describes	the contact person's re	lationship to the app	olicant? (check one)	1
				zed to represent the applicant	
o	Employee of a company affiliat	•	• •	, ,,	
ati	Lawyer, consultant, or other re		•	• •	
<u> </u>	2d Company or organization name			·	-
<u>ا</u> کو	Cypress Creek Renewables,		,		
Contact Information	2e Street address (if same as Applica	ant, check here and skip	to line 3a)		7
Ö					
	2f City		2g State/provi	nce	
	2h Postal code	2i Country (if not Unit	ed States)		
	<b>3a</b> Facility name				-
n	Bottlenose Solar, LLC				
atic	<b>3b</b> Street address (if a street address	does not exist for the f	facility check here a	nd skin to line 3c)♥	
Ö	The street doctress (if it street beloness	, does not exist for the i	active, effect freie a	and skip to line se,	0
٦					
Identification and Location	then you must specify the latitude the following formula to convert degrees + (minutes/60) + (second provided a street address for you	le and longitude coord to decimal degrees fro ds/3600). See the "Ge	inates of the facility m degrees, minutes ographic Coordinate n specifying the geo	ur facility by checking the box in line 3b, in degrees (to three decimal places). Use and seconds: decimal degrees = es" section on page 4 for help. If you graphic coordinates below is optional.  North (+)  45.175 degrees	
lde	✓ West (-)			South (-)	-
Facility	3d City (if unincorporated, check he	re and enter nearest cit	y)⊠  3e State/pr Oregon	rovince	
ij	Molalla				-
F	<b>3f</b> County (or check here for independent	ndent city)	<b>3g</b> Country (if not	United States)	0
	Clackamas  Identify the electric utilities that are c	ontemplated to transac	t with the facility		
S	<b>4a</b> Identify utility interconnecting w	<u> </u>			-
itie	Portland General Electri	•			
g Utilities	<b>4b</b> Identify utilities providing wheeli		re if none		0
tin	An Inhantify with the second of the state of				-
Transacting	<b>4c</b> Identify utilities purchasing the u Portland General Electri	•	tput or check here if	none	0
ans			n nower maintann	so nower and/or intermedials	
Ļ	service or check here if none	mentary power, backu	p power, maintenan	ce power, and/or interruptible power	0
	Portland General Electri	c (PGE)			

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

	<b>6a</b> Describe t	the primary energy input: (c	heck one ma	n category and, if a	pplicable, c	one subcategory)	
	☐ Bioma	iss (specify)	⊠ Re	newable resources	(specify)	Geothermal	
		Landfill gas		☐ Hydro power - ri	iver	Fossil fuel (sp	ecify)
		Manure digester gas		Hydro power - ti	idal	☐ Coal (n	ot waste)
		Municipal solid waste		☐ Hydro power - w	<i>r</i> ave	☐ Fuel oi	/diesel
		Sewage digester gas		⊠ Solar - photovol	taic	☐ Natura	gas (not waste)
		Wood		☐ Solar - thermal		☐ Other f	ossil fuel
		Other biomass (describe on	page 19)	☐ Wind		└┘ (descri	be on page 19)
		(specify type below in line 6		Other renewable (describe on page	ge 19)		be on page 19)
	<b>6b</b> If you spe	cified "waste" as the primary	energy inpu	t in line 6a, indicate	the type o	f waste fuel used: (c	heck one)
	☐ Wast	te fuel listed in 18 C.F.R. § 29	2.202(b) (spe	cify one of the follo	wing)		
		Anthracite culm produced	prior to July	23, 1985			
		Anthracite refuse that has ash content of 45 percent	an average h or more	eat content of 6,000	) Btu or less	s per pound and ha	s an average
		Bituminous coal refuse that average ash content of 25	it has an aver percent or m	age heat content of ore	9,500 Btu <sub> </sub>	per pound or less a	nd has an
nput		Top or bottom subbituming determined to be waste by (BLM) or that is located on the applicant shows that the	the United ! non-Federal	itates Department o or non-Indian lands	of the Interi outside of	ior's Bureau of Land BLM's jurisdiction,	Management provided that
Energy Input		Coal refuse produced on F BLM or that is located on n applicant shows that the la	ederal lands ion- Federal d	or on Indian lands the or non-Indian lands	nat has bee outside of I	en determined to be BLM's jurisdiction, p	waste by the
Ш		Lignite produced in associ as a result of such a mining	ation with th g operation	production of mo	ntan wax ai	nd lignite that beco	mes exposed
		Gaseous fuels (except natu	ıral gas and s	nthetic gas from co	oal) (descril	be on page 19)	
		Waste natural gas from gas C.F.R. § 2.400 for waste nat compliance with 18 C.F.R.	tural gas; incl	describe on page 1 ude with your filing	9 how the g any materi	gas meets the requi ials necessary to de	irements of 18 monstrate
		Materials that a governme	nt agency ha	certified for dispos	al by comb	oustion (describe o	n page 19)
		Heat from exothermic read	tions (descri	e on page 19)	□R	Residual heat (descr	ibe on page 19)
		Used rubber tires	Plastic mat	erials 🔲 F	Refinery off-	-gas □ Pe	troleum coke
	facili	er waste energy input that ha ty industry (describe in the I of commercial value and exi	Miscellaneou	section starting or	page 19; ii	nclude a discussion	qualifying of the fuel's
	energy in	e average energy input, calc outs, and provide the related ). For any oil or natural gas f	d percentage	of the total average	annual en	ergy input to the fa	ring fossil fuel cility (18 C.F.R. §
				ıal average energy		Percentage of total	
		Fuel Natural gas	inpu	t for specified fuel		nnual energy input	:
		Oil-based fuels			Btu/h	0 %	5
		Coal			Btu/h	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 2,200 kW 7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes nonpower 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. 11 kW **7c** Electrical losses in interconnection transformers 22 **kW** 7d Electrical losses in AC/DC conversion equipment, if any 0 kW 7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection 0 kW with the utility 7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e33.0 kW **7g** Maximum net power production capacity = 7a - 7f 167.0 kW

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

The facility will be a 2.2 MW AC photovoltaic (PV) array comprised of approximately ten thousand thirty two (10,032) 310Wp panels (or equivalent) attached to ground-mounted racks. The facility will utilize approximately eight (88) 25kV inverters (or equivalent).

# 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.

musi	respond to the items on this page. Oth	erwise, skip page 10.		
	Pursuant to 18 C.F.R. § 292.204(a), the with the power production capacity or resource, are owned by the same persong megawatts. To demonstrate compliant from this size limitation under the Sol (Pub. L. 101-575, 104 Stat. 2834 (1990) through 8e below (as applicable).	f any other small pove on(s) or its affiliates, nce with this size limi ar, Wind, Waste, and	ver production facilities that use and are located at the same site, tation, or to demonstrate that yo Geothermal Power Production Ir	the same energy may not exceed 80 our facility is exempt ncentives Act of 1990
	<b>8a</b> Identify any facilities with electrical equipment of the instant facility, and at least a 5 percent equity interest.	al generating equipm for which any of the	nent located within 1 mile of the entities identified in lines 5a or 5	electrical generating b, or their affiliates, holds
Ce	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
om  tati	1)	QF		kW
E E	2)	QF		kW
o c	3)	QF -		kW
tification with Size	Check here and continue in the M	Niscellaneous section	starting on page 19 if additiona	l space is needed
Ŭ	Are you seeking exemption from the seeking exemp	v) ification or application	No (skip lines 8c through 8c on for Commission certification c	<u>e</u> )
	<b>8e</b> If you answered No in line 8d, indi the facility, taking into account all fact a brief narrative explanation in the Miparticular, describe why construction toward completion of the facility.	ors relevant to const scellaneous section s	ruction? Yes No If you larting on page 19 of the constru	u answered Yes, provide uction timeline (in
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qua amounts, for only the following purpo prevention of unanticipated equipme the public health, safety, or welfare, w used for these purposes may not exce period beginning with the date the fac	ses: ignition; start-up nt outages; and allev hich would result fro ed 25 percent of the	o; testing; flame stabilization; cor lation or prevention of emergen m electric power outages. The a total energy input of the facility	ntrol use; alleviation or cies, directly affecting mount of fossil fuels during the 12-month
on of C Use Re	9a Certification of compliance with 18		•	
ati Iel I	<b>9b</b> Certification of compliance with 18	3 C.F.R. § 292.204(b) v	vith respect to amount of fossil f	uel used annually:
Certific vith Fu	Applicant certifies that the am percent of the total energy inp facility first produces electric e	out of the facility duri		gate, exceed 25 ng with the date the

## 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.

	energy (such as heat or s use of energy. Pursuant cycle cogeneration facilit 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 toppingty, 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. § obtoming-cycle cogeneration facility, the use of at least some reject heat from a thermal or power production.
	10a What type(s) of cog	eneration technology does the facility represent? (check all that apply)
	Topping-cycle	cogeneration Bottoming-cycle cogeneration
	other requirements balance diagram de meet certain requir	te the sequential operation of the cogeneration process, and to support compliance with such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and ements, as described below. You must check next to the description of each requirement it you have complied with these requirements.
	Check to certify compliance with indicated requirement	Requirement
ration ۱		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.
genel natior		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		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.
ene		Diagram must specify average gross electric output in kW or MW for each generator.
Ō		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/(lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		Diagram must specify working fluid flow conditions at make-up water inputs.



FERC Fo	orm 556	PUBLIC (REDACTED)	Page 12 - Cogeneration Facilities
	the Public Utility Regulatory Policies A qualifying cogeneration facility that ( was either not a cogeneration facility Commission certification of QF status Commission in 18 C.F.R. § 292.205(d).	ne Energy Policy Act of 2005 (EPAct 2005) est Act of 1978 (PURPA), 16 USC 824a-3(n), with a 1) is seeking to sell electric energy pursuant to on August 8, 2005, or had not filed a self-cer on or before February 1, 2006. These require Complete the lines below, carefully followin ts apply to your cogeneration facility and, if	additional requirements for any to section 210 of PURPA and (2) tification or application for ements were implemented by the g the instructions, to demonstrate
		qualifying cogeneration facility on or before <i>i</i>	
	<b>11b</b> Was the initial filing seeking cert for Commission certification) filed on	ification of your facility (whether a notice of or before February 1, 2006? Yes No	self-certification or an application
se S	If the answer to either line 11a or 11b 11a and 11b are No, skip to line 11e b	is Yes, then continue at line 11c below. Other	erwise, if the answers to both lines
ental Us Facilitie	11c With respect to the design and o February 2, 2006 that affect general p production capacity from the plant's of Yes (continue at line 11d below	•	en implemented on or after and/or increase net power
2005 Requirements for Fundamental Use ergy Output from Cogeneration Facilities	No. Your facility is not subject subject to to these requiremen	to the requirements of 18 C.F.R. § 292.205(d) Its in the future if changes are made to the fa ility to determine eligibility. Skip lines 11d th	cility. At such time, the applicant
s for ogei	<b>11d</b> Does the applicant contend that a "new" cogeneration facility that wou	the changes identified in line 11c are not so uld be subject to the 18 C.F.R. § 292.205(d) co	significant as to make the facility ogeneration requirements?
ement from C	the facility (including the purp	ous section starting on page 19 a description ose of the changes) and a discussion of why ion facility in light of these changes. Skip line	the facility should not be
Requir Jutput	applicability of the requirement	fact that it is a "new" cogeneration facility (fact that it is a "new" cogeneration facility (facts of 18 C.F.R. § 292.205(d)) by virtue of mod , 2006. Continue below at line 11e.	or purposes of determining the ifications to the facility that were
005 3y C		ity be sold pursuant to section 210 of PURPA	
	Yes. The facility is an EPAct 200 292.205(d)(2) by continuing at	Of cogeneration facility. You must demonstr line 11f below.	ate compliance with 18 C.F.R. §
EPAct of Ene	its understanding that it must i	ergy will <i>not</i> be sold pursuant to section 210 recertify its facility in order to determine com Iling energy pursuant to section 210 of PURP	pliance with the requirements of
	11f Is the net power production capa equal to 5,000 kW?	city of your cogeneration facility, as indicated	d in line 7g above, less than or
	rebuttable presumption that co requirements for fundamental certifies its understanding that,	capacity is less than or equal to 5,000 kW. 18 ogeneration facilities of 5,000 kW and smaller use of the facility's energy output in 18 C.F.R. should the power production capacity of th certified to (among other things) demonstra rough 11j.	r capacity comply with the . § 292.205(d)(2). Applicant e facility increase above 5,000
	No, the net power production of requirements for fundamental the next page at line 11g.	capacity is greater than 5,000 kW. Demonstra use of the facility's energy output in 18 C.F.R.	ate compliance with the § 292.205(d)(2) by continuing on

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

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

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

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

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

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

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

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

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

Usefulness of Topping-Cycle

**Thermal Output** 

# Information Required for Topping-Cycle Cogeneration Facility the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

continue in the Miscellaneous section starting on page 19.

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to

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 toppingcycle 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 thermal output attributable to use (net of Name of entity (thermal host) Thermal host's relationship to facility: heat contained in process taking thermal output Thermal host's use of thermal output return or make-up water) Select thermal host's relationship to facility 1) Select thermal host's use of thermal output Btu/h Select thermal host's relationship to facility Select thermal host's use of thermal output Btu/h Select thermal host's relationship to facility 3) Select thermal host's use of thermal output Btu/h Select thermal host's relationship to facility 4) Select thermal host's use of thermal output Btu/h Select thermal host's relationship to facility 5) Select thermal host's use of thermal output Btu/h Select thermal host's relationship to facility 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,

No (does not comply with efficiency standard)

m 556	PUBLIC (REDACTED)	Page 15 - Topping-	Cycle Cogeneration Facilities
cycle operating stand regulations (18 C.F.R. the useful thermal er (18 C.F.R. § 292.205(a installation commen- thermal energy outp facility; and (B) if the be no less than 45 pe compliance with the	es representing topping-cycle tec dard and, if applicable, efficiency s . § 292.205(a)(1)) establishes the o nergy output must be no less than a)(2)) establishes the efficiency sta- ced on or after March 13, 1980: th- out must (A) be no less than 42.5 po- useful thermal energy output is le- ercent of the total energy input of topping-cycle operating and/or e- ciency standard based on the date	standard. Section 292.205(a)(1) or perating standard for topping-cy is 5 percent of the total energy our indard for topping-cycle cogenerate useful power output of the factive ercent of the total energy input of the total error in the factility. If it is and oil to the factility.	f the Commission's rcle cogeneration facilities: tput. Section 292.205(a)(2) ation facilities for which ility plus one-half the useful of natural gas and oil to the nergy output of the facility, To demonstrate strate that your facility is
technology, then res attributable to the to which mass and ener cogeneration system		ow considering only the energy in ty. Your mass and heat balance do onents are for which portion (top	nputs and outputs lagram must make clear
	nual average rate of useful therma		0. 4
	any heat contained in condensate nual average rate of net electrical (		Btu/h
Tob marcace the am	idal dverage race of fice electrical	chergy output	kW
13c Multiply line 13l	b by 3,412 to convert from kW to E	Btu/h	0 Btu/h
13d Indicate the ann	nual average rate of mechanical er	nergy output taken directly off	5 5 6111
	e mover for purposes not directly	related to power production	
(this value is usually	· · · · · · · · · · · · · · · · · · ·	DA., /l-	hp
ise multiply line is	3d by 2,544 to convert from hp to I	DLU/II	o Btu/h
13f Indicate the ann	ual average rate of energy input f	rom natural gas and oil	o bta/n
(			Btu/h
<b>13g</b> Topping-cycle o	operating value = 100 * 13a / (13a	+ 13c + 13e)	22. 44
13h Topping-cycle	efficiency value = 100 * (0.5*13a +	. 13c ± 13a) / 13f	0 %
1311 Topping Cycle	efficiency value = 100 (0.5 15a +	130 + 136// 131	0 %
13i Compliance with	n operating standard: Is the opera	iting value shown in line 13g grea	
	ies with operating standard)	No (does not comply wit	
<b>13j</b> Did installation o	of the facility in its current form co	ommence on or after March 13, 19	980?
	cility is subject to the efficiency requirement by		
No. Your fac	ility is exempt from the efficiency	standard. Skip lines 13k and 13l.	
	h efficiency standard (for low ope ate below whether the efficiency		
Yes (comp	lies with efficiency standard)	No (does not comply wit	h efficiency standard)
	h efficiency standard (for high ope Il to 15%, then indicate below whe		

Yes (complies with efficiency standard)

# Information Required for Bottoming-Cycle Cogeneration Facility

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

Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production  Select thermal host's relationship to facility; Thermal host's relationship to facility  Select thermal host's relationship to facility  Select thermal host's relationship to facility  Yes No  Select thermal host's process type  Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed  14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process in the process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then must provide additional details as necessary to demonstrate usefulness. Your application may be rejected an additional information may be required if an insufficient showing of usefulness is made. (Exception: If you he previously received a Commission certification approving a specific bottoming-cycle process related to the infacility, then you need only provide a brief description of that process and a reference by date and docket nut to the order certifying your facility with the indicated process. Such exemption may not be used if any mater changes to the process have been made.) If additional space is needed, continue in the Miscellaneous sections starting on page 19.	148	a Identify and describe each ther host. For hosts with multiple b separate rows.	mal host and each bottoming-cycle cogeneration of the control of the cogeneration processes, provide the cogeneration processes, provide the cogeneration processes, provide the cogeneration processes.	process engaged in by ne data for each proce
Select thermal host's process type    Select thermal host's relationship to facility   Yes   No		Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power		the thermal host augmented for pu of increasing po production capa
Select thermal host's process type  Select thermal host's relationship to facility  Select thermal host's process type  Select thermal host's relationship to facility  Yes No  Select thermal host's relationship to facility  Yes No  Select thermal host's relationship to facility  Yes No  Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if yo facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then must provide additional details as necessary to demonstrate usefulness. Your application may be rejected an additional information may be required if an insufficient showing of usefulness is made. (Exception: If you hap previously received a Commission certification approving a specific bottoming-cycle process related to the infacility, then you need only provide a brief description of that process and a reference by date and docket nut to the order certifying your facility with the indicated process. Such exemption may not be used if any mater changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section	1)		Select thermal host's relationship to facility	Yes No
Select thermal host's process type  Select thermal host's relationship to facility  Yes No  Select thermal host's process type  Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if yo facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then must provide additional details as necessary to demonstrate usefulness. Your application may be rejected an additional information may be required if an insufficient showing of usefulness is made. (Exception: If you hap previously received a Commission certification approving a specific bottoming-cycle process related to the infacility, then you need only provide a brief description of that process and a reference by date and docket nut to the order certifying your facility with the indicated process. Such exemption may not be used if any mater changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section.	Ĺ		Select thermal host's process type	L
Select thermal host's relationship to facility  Select thermal host's process type  Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed.  14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if you facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then must provide additional details as necessary to demonstrate usefulness. Your application may be rejected an additional information may be required if an insufficient showing of usefulness is made. (Exception: If you had previously received a Commission certification approving a specific bottoming-cycle process related to the infacility, then you need only provide a brief description of that process and a reference by date and docket nut to the order certifying your facility with the indicated process. Such exemption may not be used if any materichanges to the process have been made.) If additional space is needed, continue in the Miscellaneous section.	2)		Select thermal host's relationship to facility	Yes No
Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed.  14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if yo facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then must provide additional details as necessary to demonstrate usefulness. Your application may be rejected an additional information may be required if an insufficient showing of usefulness is made. (Exception: If you happreviously received a Commission certification approving a specific bottoming-cycle process related to the infacility, then you need only provide a brief description of that process and a reference by date and docket nut to the order certifying your facility with the indicated process. Such exemption may not be used if any materichanges to the process have been made.) If additional space is needed, continue in the Miscellaneous section.			Select thermal host's process type	
Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed.  14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each procidentified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if yo facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then must provide additional details as necessary to demonstrate usefulness. Your application may be rejected an additional information may be required if an insufficient showing of usefulness is made. (Exception: If you happreviously received a Commission certification approving a specific bottoming-cycle process related to the infacility, then you need only provide a brief description of that process and a reference by date and docket nut to the order certifying your facility with the indicated process. Such exemption may not be used if any materical changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section.				
identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if yo facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, ther must provide additional details as necessary to demonstrate usefulness. Your application may be rejected a additional information may be required if an insufficient showing of usefulness is made. (Exception: If you h previously received a Commission certification approving a specific bottoming-cycle process related to the if facility, then you need only provide a brief description of that process and a reference by date and docket not to the order certifying your facility with the indicated process. Such exemption may not be used if any mate changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section.	3)		Select thermal host's process type	bassersed
to the order certifying your facility with the indicated process. Such exemption may not be used if any mate changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section			Select thermal host's process type the Miscellaneous section starting on page 19 if add	ditional space is need
	14k idei faci mu ado pre	Demonstration of usefulness of ntified above. In some cases, this lity's process is not common, and st provide additional details as no litional information may be requi viously received a Commission ce	Select thermal host's process type  the Miscellaneous section starting on page 19 if add  f thermal output: At a minimum, provide a brief de  s brief description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not a  ecessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made  ertification approving a specific bottoming-cycle po	ditional space is needed ascription of each proculness. However, if your easonably clear, then on may be rejected as as (Exception: If you have cocess related to the integral of the integral as the second as the
	14k idei faci mu add pre faci to t	Demonstration of usefulness of ntified above. In some cases, this lity's process is not common, and st provide additional details as no litional information may be requiviously received a Commission collity, then you need only provide a he order certifying your facility winges to the process have been me	select thermal host's process type  the Miscellaneous section starting on page 19 if add  f thermal output: At a minimum, provide a brief description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made retification approving a specific bottoming-cycle process and a reference by the indicated process. Such exemption may not	ditional space is needed scription of each proculness. However, if your easonably clear, then on may be rejected and (Exception: If you have cocess related to the integral of the second of the second of the used if any material scription.
	14k idei faci mu ado pre faci to t	Demonstration of usefulness of ntified above. In some cases, this lity's process is not common, and st provide additional details as no litional information may be requiviously received a Commission collity, then you need only provide a he order certifying your facility winges to the process have been me	select thermal host's process type  the Miscellaneous section starting on page 19 if add  f thermal output: At a minimum, provide a brief description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made retification approving a specific bottoming-cycle process and a reference by the indicated process. Such exemption may not	ditional space is need scription of each produlness. However, if you reasonably clear, there on may be rejected a c. (Exception: If you how cocess related to the it by date and docket nut be used if any mate
	14k idei faci mu add pre faci to t	Demonstration of usefulness of ntified above. In some cases, this lity's process is not common, and st provide additional details as no litional information may be requiviously received a Commission collity, then you need only provide a he order certifying your facility winges to the process have been me	select thermal host's process type  the Miscellaneous section starting on page 19 if add  f thermal output: At a minimum, provide a brief description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made retification approving a specific bottoming-cycle process and a reference by the indicated process. Such exemption may not	ditional space is need scription of each produlness. However, if you reasonably clear, there on may be rejected a c. (Exception: If you howevers related to the it by date and docket nut be used if any mate
	14k idei faci mu ado pre faci to t	Demonstration of usefulness of ntified above. In some cases, this lity's process is not common, and st provide additional details as no litional information may be requiviously received a Commission collity, then you need only provide a he order certifying your facility winges to the process have been me	select thermal host's process type  the Miscellaneous section starting on page 19 if add  f thermal output: At a minimum, provide a brief description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made retification approving a specific bottoming-cycle process and a reference by the indicated process. Such exemption may not	ditional space is need scription of each produlness. However, if you reasonably clear, there on may be rejected a c. (Exception: If you howevers related to the it by date and docket nut be used if any mate
	14k idei faci mu add pre faci to t	Demonstration of usefulness of ntified above. In some cases, this lity's process is not common, and st provide additional details as no litional information may be requiviously received a Commission collity, then you need only provide a he order certifying your facility winges to the process have been me	select thermal host's process type  the Miscellaneous section starting on page 19 if add  f thermal output: At a minimum, provide a brief description is sufficient to demonstrate useful/or if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made retification approving a specific bottoming-cycle process and a reference by the indicated process. Such exemption may not	ditional space is need scription of each pro- liness. However, if your casonably clear, there on may be rejected a case. (Exception: If you have coss related to the integral of the integral

0

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

If you indicated in line 10a that your facility represents both topping-cycle and bottoming-cycle cogeneration

5a Did installation of the facility in its current form commence on or after March 13, 1980?	
Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). Dem with the efficiency requirement by responding to lines 15b through 15h below.	onstrate compliance
No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.	
5b Indicate the annual average rate of net electrical energy output	kW
5c Multiply line 15b by 3,412 to convert from kW to Btu/h	0 Btu/h
5d Indicate the annual average rate of mechanical energy output taken directly off f the shaft of a prime mover for purposes not directly related to power production his value is usually zero)	hp
Multiply line 15d by 2,544 to convert from hp to Btu/h	0 Btu/h
5f Indicate the annual average rate of supplementary energy input from natural gas roil	Btu/h
<b>5g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 %

Commission Staff Use Only:

# 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. For rejected by the Secretary of the Commissi	ns with incomplete Certificates of Completeness, A on.	ccuracy and Authority will be
Signer identified below certifies the following: (check all items and applicable subitems)		
He or she has read the filing, includin mass and heat balance diagrams, and knows its contents.	g any information contained in any attached docur I any information contained in the Miscellaneous se	nents, such as cogeneration ection starting on page 19, and
He or she has provided all of the requ to the best of his or her knowledge an	ired information for certification, and the provided nd belief.	information is true as stated,
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 t	he 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 interconnect and transact (see lines 4	Form 556 and all attachments to the utilities with was a through 4d), as well as to the regulatory authorition the Required Notice to Public Utilities and State Required Notice Not	es of the states in which the
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
	3250 Ocean Park Blvd., Suite 355	
Evan Riley	Santa Monica, CA 90405	9/29/2016
Audit Notes		

#### Miscellaneous

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

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