FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 05/31/2016

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

General

78 SEP 29 P 3: 18

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.

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. § 292.204(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 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.

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
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 Gell. The filenames for such documents should begin with "Public", "Priv", or "Cell", 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 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.

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

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

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

	ddress H Holdings, LLC creet, Suite 500		
1c Cîty		1d State/provi	ince
Boston		MA	
1e Postal code 02111	1f Country (if not United States)		1g Telephone number 617.690.2888
1h Has the instant fa	cility ever previously been certified as a Q	F? Yes N	No X
1i If yes, provide the	docket number of the last known QF filing	g pertaining to th	his facility: QF
1j Under which certif	ication process is the applicant making th	nis filing?	·
Notice of self-ce (see note below	rtification — A	oplication for Co	ommission certification (requires filing e" section on page 3)
QF status. A notion notice of self-cert	f-certification is a notice by the applicant ce of self-certification does not establish a ification to verify compliance. See the "W s for more information.	a proceeding, and	d the Commission does not review a
1k What type(s) of QI	status is the applicant seeking for its fac	ility? (check all th	nat apply)
	power production facility status Q	ualifying cogene	eration facility status
11 What is the purpos	e and expected effective date(s) of this fil	ling?	
X Original certification	tion; facility expected to be installed by	9/1/16 ai	nd to begin operation on 10/31/16
	reviously certified facility to be effective of		
(identify type(s)	of change(s) below, and describe change	e(s) in the Miscell	laneous section starting on page 19)
	e and/or other administrative change(s)		•
Change in ov	•		
-	fecting plant equipment, fuel use, power		icity and/or cogeneration thermal output
	orrection to a previous filing submitted or oplement or correction in the Miscellaned		ng an maga 10)
	<u> </u>		
	wing three statements is true, check the bible, explaining any special circumstance		
upreviously gra	ility complies with the Commission's QF in the description of the Commission in an order date discellaneous section starting on page 19	d	virtue of a waiver of certain regulations (specify any other relevant waiver
	ility would comply with the Commission' vith this application is granted	s QF requiremen	its if a petition for waiver submitted
employment o	ility complies with the Commission's regular of unique or innovative technologies not o	contemplated by	

	2a Name of contact person		2b Telephone number
	Hallie Flint Gilman		207.228.6887
Contact Information		ner or partner of applicant authorities authorized to rent is an individual,	plicant authorized to represent the applicant rized to represent the applicant on this matter epresent the applicant on this matter check here and skip to line 2e)
ပိ	2f City Portland 2h Postal code 2i Count	try (if not United St.	2g State/province ME rates)
lity Identification and Location	then you must specify the latitude and lon the following formula to convert to decim degrees + (minutes/60) + (seconds/3600).	hat no street addre igitude coordinates al degrees from de See the "Geograp n line 3b, then spec grees	ess exists for your facility by checking the box in line 3k s of the facility in degrees (to three decimal places). Us grees, minutes and seconds: decimal degrees = phic Coordinates" section on page 4 for help. If you cifying the geographic coordinates below is optional. X North (+) 37.641 degrees South (-)
Facility	3f County (or check here for independent city Iron	3g (Country (if not United States)
Transacting Utilities	 Identify the electric utilities that are contemplated. Identify utility interconnecting with the factoric pacificorp. Identify utilities providing wheeling service. Identify utilities purchasing the useful electric pacificorp. Identify utilities providing supplementary service or check here if none. 	e or check here if no	one 🗵



6a Describe the primary energy input: (check one main category and, if applicable, one subcategory)

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.

80,000 kW
54 kW
,
237 kW
136 kW
o kW
427.0 kW
79,573.0 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 Enterprise Solar Plant is located on an approximately 710 acre site near the Town of Newcastle, Iron County, Utah. The facility will have a design output of 80.0 MWac. The system will consist of 360,000 solar photovoltaic (PV) panels manufactured by Yingli, with a nominal DC rating of 300 watts per panel and an aggregate nameplate capacity of approximately 108 MWdc/80 MWac. The panels will be erected on a single-axis tracker system, including controls and eighty, 1000 kWac inverters that will convert the output from direct current to alternating current. The panels will be configured in 18 module strings. The output from each inverter will be wired to a step-up padmount transformer. There will be 40 padmounted 34.5 kV/800 V step-up transformers the output of which will be collected in a 34.5 kV collector system. The output will then move into a 34.5 to 138 kV substation to interconnect the facility to PacifiCorp's existing 138 kV Enterprise Valley - West Cedar transmission line.



Information Required for Small Power Production Facility

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

	Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable).	
	8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest.	
9	Check here if no such facilities exist. X	1
of Complian Limitations	Facility location Root docket # Maximum net powe (city or county, state) (if any) Common owner(s) production capacity	
omp tati	1) QF - kw	r
ر mir	2) QF kw	,
n oj e Li	3)QFkw	r
tification with Size	Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed	
Cer	 8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act?	
Certification of Compliance vith Fuel Use Requirements	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. 9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel: 15 A Live to a stiff of the total control of the facility of the fac	
tior I Us	Applicant certifies that the facility will use fossil fuels exclusively for the purposes listed above.	<u> </u> .
ica ue	9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:	
Certif vith F	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.

		energy (such as heat or suse of energy. Pursuant cycle cogeneration facilithermal application or p 292.205(a); or (2) for a boapplication or process for 10a What type(s) of cog Topping-cycle 10b To help demonstration of their requirements balance diagram demeet certain requirements	22.202(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 rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § ottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal or power production. eneration technology does the facility represent? (check all that apply) e cogeneration Bottoming-cycle cogeneration 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	Deguirement
ration	u	indicated requirement	Requirement Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
gene	natio		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.
			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.
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			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.
1			Diagram must specify working fluid flow conditions at make-up water inputs.





	the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.	
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	O
	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, 200% No	Ū
a N	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.	
iental Use Facilities	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?	©
ner n Fa	Yes (continue at line 11d below)	
undar eratio	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.	
for F ogen	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?	Û
ments rom Ca	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.	
Act 2005 Requirements for Fundamental Use Energy Output from Cogeneration Facilities	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.	
05 H y O	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	Ø
:t 20 nerg	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	
EPAC of E	No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.	
	11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?	0
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.	
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.	

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

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 11q 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	MWł
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be	
sold to an electric utility	MWł
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 %
11i 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.



Information Required for Topping-Cycle Cogeneration Facility

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

	The or o Cor cyc	commercial process or used in a h mmission's regulations (18 C.F.R. s le cogeneration facility must be u	ping-cycle cogeneration facility is the net energy neating or cooling application. Pursuant to section §§ 292.202(c), (d) and (h)), the thermal energy out useful. In connection with this requirement, descripy responding to lines 12a and 12b below.	ns 292.202(c), (d) and (h) of the put of a qualifying topping-
	122		mal host, and specify the annual average rate of the nosts with multiple uses of thermal output, provid Thermal host's relationship to facility; Thermal host's use of thermal output	
	1)		Select thermal host's relationship to facility Select thermal host's use of thermal output	
o,	2)		Select thermal host's relationship to facility Select thermal host's use of thermal output	Btu/h
Usefulness of Topping-Cycle Thermal Output	3)		Select thermal host's relationship to facility Select thermal host's use of thermal output	Btu/h
pping	4)		Select thermal host's relationship to facility Select thermal host's use of thermal output	Btu/h
of To mal C	5)		Select thermal host's relationship to facility Select thermal host's use of thermal output	Btu/h
Iness	6)		Select thermal host's relationship to facility Select thermal host's use of thermal output	Btu/h
Usefu	the How not app is m out dat use	Demonstration of usefulness of rmal output identified above. In wever, if your facility's use of them reasonably clear, then you must blication may be rejected and/or anade. (Exception: If you have prevout related to the instant facility, e and docket number to the orde	the Miscellaneous section starting on page 19 if a fithermal output: At a minimum, provide a brief description is sufficient to demand output is not common, and/or if the usefulner provide additional details as necessary to demonst additional information may be required if an insufficiently output as Commission certification approvidency output need only provide a brief description of the certifying your facility with the indicated use. Suld deviation from the previously authorized use.) If in starting on page 19.	escription of each use of the emonstrate usefulness. so of such thermal output is strate usefulness. Your ficient showing of usefulness ving a specific use of thermal that use and a reference by uch exemption may not be



equal to 42.5%:

Yes (complies with efficiency standard)

Applicants for facilities representing topping-cycle technology must demonstrate comp	
cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) o	
regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cy the useful thermal energy output must be no less than 5 percent of the total energy out (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneral installation commenced on or after March 13, 1980: the useful power output of the facilitermal energy output must (A) be no less than 42.5 percent of the total energy input of facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy be no less than 45 percent of the total energy input of natural gas and oil to the facility. compliance with the topping-cycle operating and/or efficiency standards, or to demonstrate the efficiency standard based on the date that installation commenced, recall the low.	tput. Section 292.205(a)(2) ation facilities for which lity plus one-half the useful f natural gas and oil to the lergy output of the facility, To demonstrate strate that your facility is
If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottomic technology, then respond to lines 13a through 13I below considering only the energy is attributable to the topping-cycle portion of your facility. Your mass and heat balance d which mass and energy flow values and system components are for which portion (top cogeneration system.	nputs and outputs lagram must make clear
13a Indicate the annual average rate of useful thermal energy output made available	5. A
to the host(s), net of any heat contained in condensate return or make-up water 13b Indicate the annual average rate of net electrical energy output	Btu/h
Halicate the aimual average rate of het electrical energy output	kW
13c Multiply line 13b by 3,412 to convert from kW to Btu/h	0 Btu/h
13d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)	hp
13e Multiply line 13d by 2,544 to convert from hp to Btu/h	0 Btu/h
13f Indicate the annual average rate of energy input from natural gas and oil	Btu/h
13g Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)	0 %
13h Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	0 %
13i Compliance with operating standard: Is the operating value shown in line 13g grea	
Yes (complies with operating standard) No (does not comply with	
13j Did installation of the facility in its current form commence on or after March 13, 19	980?
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205 compliance with the efficiency requirement by responding to line 13k or 13l, as	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.	
13k Compliance with efficiency standard (for low operating value): If the operating valuantian 15%, then indicate below whether the efficiency value shown in line 13h greater t	
Yes (complies with efficiency standard) No (does not comply wit	h efficiency standard)
131 Compliance with efficiency standard (for high operating value): If the operating va	lue 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 equal to 42.5%:

No (does not comply with efficiency standard)

Information Required for Bottoming-Cycle Cogeneration Facility

at		mal host and each bottoming-cycle cogeneration pottoming-cycle cogeneration pottoming-cycle cogeneration processes, provide the	process engaged in by each
	Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)
1)		Select thermal host's relationship to facility	Yes No
<u> </u>		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No
Ľ		Select thermal host's process type	
3)		Select thermal host's relationship to facility	Yes No
ž		Select thermal host's process type	
	Ib Demonstration of usefulness of	the Miscellaneous section starting on page 19 if add	scription of each process
14 fa m acc	The Demonstration of usefulness of entified above. In some cases, this cility's process is not common, and ust provide additional details as not iditional information may be requireviously received a Commission colity, then you need only provide a the order certifying your facility w	he Miscellaneous section starting on page 19 if add	scription of each process lness. 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
14 fa m acc	The Demonstration of usefulness of entified above. In some cases, this cility's process is not common, and ust provide additional details as not ditional information may be requireviously received a Commission could be cility, then you need only provide a the order certifying your facility was anges to the process have been me	the Miscellaneous section starting on page 19 if add f thermal output: At a minimum, provide a brief description is sufficient to demonstrate usefully differ if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made ertification approving a specific bottoming-cycle probability and the indicated process. Such exemption may no	scription of each process lness. 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
14 fa m acc	The Demonstration of usefulness of entified above. In some cases, this cility's process is not common, and ust provide additional details as not ditional information may be requireviously received a Commission could be cility, then you need only provide a the order certifying your facility was anges to the process have been me	the Miscellaneous section starting on page 19 if add f thermal output: At a minimum, provide a brief description is sufficient to demonstrate usefully differ if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made ertification approving a specific bottoming-cycle probability and the indicated process. Such exemption may no	scription of each process lness. 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
14 id fa m ac pr fa to ch st	The Demonstration of usefulness of entified above. In some cases, this cility's process is not common, and ust provide additional details as nead it information may be requireviously received a Commission collity, then you need only provide at the order certifying your facility was anges to the process have been marting on page 19.	the Miscellaneous section starting on page 19 if add f thermal output: At a minimum, provide a brief description is sufficient to demonstrate usefully differ if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your application if an insufficient showing of usefulness is made ertification approving a specific bottoming-cycle probability and the indicated process. Such exemption may no	scription of each process lness. 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 Miscellaneous section



Bottoming-Cycle Operating and Efficiency Value Calculation

than or equal to 45%:

Yes (complies with efficiency standard)

Applicants for facilities representing bottoming-cycle technology and for which install March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency stathe Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standar cogeneration facilities: the useful power output of the facility must be no less than 45 of natural gas and oil for supplementary firing. To demonstrate compliance with the b 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.	ndards. Section 292.20 d for bottoming-cycle percent of the energy i ottoming-cycle efficien	5(b) of nput cy
If you indicated in line 10a that your facility represents <i>both</i> 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 balance which mass and energy flow values and system components are for which portion of the (topping or bottoming).	inputs and outputs e diagram must make	
15a Did installation of the facility in its current form commence on or after March 13,	9807	
Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205 with the efficiency requirement by responding to lines 15b through 15h below No. Your facility is exempt from the efficiency standard. Skip the rest of page		liance
15b Indicate the annual average rate of net electrical energy output		
•		kW
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	0	Btu/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)		hp
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	11. 101001 1 11111111111	P
122 manapy and 134 by 2/3 i i to contest trotting to start	n	Btu/h
15f Indicate the annual average rate of supplementary energy input from natural gas		
or oil		Btu/h
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f		6

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

Commission Staff Use Only:

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

Signer identified below certifies the follow	ving: (check all items and applicable subitems)	
He or she has read the filing, includin mass and heat balance diagrams, and knows its contents.	ng any information contained in any attached docur d any information contained in the Miscellaneous so	ments, such as cogeneration ection starting on page 19, and
He or she has provided all of the required to the best of his or her knowledge a	uired information for certification, and the provided nd belief.	information is true as stated,
He or she possess full power and auth Practice and Procedure (18 C.F.R. § 38	hority to sign the filing; as required by Rule 2005(a)(35.2005(a)(3)), he or she is one of the following: (che	(3) of the Commission's Rules of eck one)
☐ The person on whose behalf	the filing is made	
\square An officer of the corporation,	trust, association, or other organized group on beh	alf of which the filing is made
\Box An officer, agent, or employe filing is made	of the governmental authority, agency, or instrumental	entality on behalf of which the
	practice before the Commission under Rule 2101 of F.R. § 385.2101) and who possesses authority to sig	
He or she has reviewed all automatic Miscellaneous section starting on page	calculations and agrees with their results, unless ot ge 19.	herwise noted in the
interconnect and transact (see lines 4	Form 556 and all attachments to the utilities with value through 4d), as well as to the regulatory authoriti the Required Notice to Public Utilities and State Re	es of the states in which the
Procedure (18 C.F.R. § 385.2005(c)) provide	ture date below. Rule 2005(c) of the Commission's es that persons filing their documents electronically iled documents. A person filing this document elec ded below.	y may use typed characters
Your Signature	Your address	Date
Deborah A. Carpentier	1001 Pennsylvania Ave, NW Washington,DC 20004-2595	09/24/2014
Audit Notes		
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