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FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 01/31/2027

Certification of Qualifying Facility (QF) Status for a Small Power Form 556 Certification of Qualifying Facility (Control of 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.

Title 18, U.S.C. 1001 makes it a crime for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious or fraudulent statements as to any matter within its jurisdiction.

Who Must File

Certification:

Any applicant seeking QF status for a generating facility that has a net power production capacity (as determined in lines 7a through 7g below) greater than 1 MW 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 1 MW 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. This includes any applicant seeking small power production QF status for a generating facility that, together with any affiliated small power production QFs that use the same energy resource and are within one mile of the filing facility, has a net power production capacity 1 MW or less.

Recertification:

A QF must file a recertification whenever the qualifying facility "fails to conform with any material facts or representations presented ... in its submittals to the Commission." 18 C.F.R. § 292.207(f),

Among other possible changes in material facts that would necessitate recertification, a small power production QF is required to recertify to update item 8a due to a change at an affiliated facility(ies) one mile or less from its electrical generating equipment. A small power production QF is not required to recertify due to a change at an affiliated facility(ies) listed in item 8a that is more than one mile but less than 10 miles away from its electrical generating equipment, unless that change also impacts any other entries on the Form 556.

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.



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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 3). 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 4 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 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 penalize a person for not complying with a collection of information unless it displays a currently valid OMB control number.

The estimated total burden for completing the FERC Form 556, including gathering and reporting information, is as follows: 1.5 hours for self-certifications of facilities of 1 MW or less; 1.5 hours for self-certifications of a cogeneration facility over 1 MW; 50 hours for applications for Commission certification of a cogeneration facility; 3.5 hours for self-certifications of small power producers over 1 MW and less than a mile or more than 10 miles from affiliated small power production QFs that use the same energy resource; 56 hours for an application for Commission certification of a small power production facility over 1 MW and less than a mile or more than 10 miles from affiliated small power production QFs that use the same energy resource; 9.5 hours for self-certifications of small power producers over 1 MW with affiliated small power production QFs more than one but less than 10 miles that use the same energy resource; 62 hours for an application for Commission certification of a small power production facility over 1 MW with affiliated small power production QFs more than one but less than 10 miles that use the same energy resource.

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 (<u>DataClearance@ferc.gov</u>); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 through www.reginfo.gov/public/do/PRAMain. Include FERC-556 and the Control No. 1902-0075 in any correspondence.

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 Filing Fees link.

You will be prompted to submit your filing fee, if applicable, during the electronic filing process described on page 3.

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.
-	Self-Recertification of Qualifying Facility (QF) (Supplement or Correction)	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

You will be prompted to submit your filing fee, if applicable, during the electronic submission process. Filing fees can be paid by check or money order via ACH Credit transfer, wire payment, courier, or mail.

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

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Required Notice to Utilities and State Regulatory Authorities

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

What to Expect From the Commission After You File

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

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

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

Protests to the Filing

Pursuant to 18 C.F.R. § 292.207, an interested party has 30 days from the date of the filing of a self-certification or self-recertification to intervene or file a protest. Protests may be made to an initial certification (both self-certification and application for Commission certification) filed on or after December 31, 2020, but only to a recertification (both self-recertification and application for Commission recertification) that makes substantive changes to the existing certification and that is filed on or after December 31, 2020, as described in Order No. 872 (accessible from the Commission's QF website at www.ferc.gov/QF). Substantive changes that may be subject to a protest may include, for example, a change in electrical generating equipment that increases power production capacity by the greater of 1 MW or 5% of the previously certified capacity of the QF, or a change in ownership in which an owner increases its equity interest by at least 10% from the equity interest previously reported. The protestor must concurrently serve a copy of such filing pursuant to 18 C.F.R. § 385.2011. Any response to a protest must be filed on or before 30 days from the date of filing of that protest.

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.

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Geographic Coordinates

Items 3c and 8a of the Form 556 require you to report your facility's (and certain neighboring facilities') 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. 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.

The eFiling process described on page 3 will allow you to identify which versions of the electronic documents you submit are public, privileged and/or CEII. The filenames for such documents should begin with "Public", "Priv", or "CEII", as applicable, to clearly indicate the security designation of the file. Both versions of the Form 556 should be unaltered PDF copies of the Form 556, as available for download from www.ferc.gov/QF. To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above all fields which contain data for which you are seeking non-public status.

The Commission is not responsible for detecting or correcting 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.

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FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 01/31/2027

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

	1b Applicant street address 250 Vesey Street			
	1c City		1d State/provi	ince
	New York		NY	
	1e Postal code 10281-1023	1f Country (if not United States)		1g Telephone number 212-417-7000
	1h Has the instant facility	vever previously been certified as a Q	? Yes \[\] \	No 🔀
	1i If yes, provide the dock	ket number of the last known QF filing	pertaining to th	nis facility: QF
	1j Under which certificat	ion process is the applicant making th	is filing?	
	Notice of self-certifice (see note below)	cation \Box A fe	pplication for Co e; see "Filing Fee	mmission certification (requires filing e" section on page 2)
	QF status. A notice of	f self-certification does not establish a tion to verify compliance. See the "W	proceeding, and	
Ì	1k What type(s) of QF sta	tus is the applicant seeking for its faci	lity? (check all the	at apply)
	Qualifying small po	wer production facility status 🛛 🖂 🔾	ualifying cogene	ration facility status
	1 What is the purpose ar	nd expected effective date(s) of this fil	ing?	
	Original certification	n; facility expected to be installed by	10/30/25 an	nd to begin operation on 10/30/25
		iously certified facility to be effective	All the second s	
		change(s) below, and describe change(s) in the Miscella	neous section starting on page 24)
	Maria pro-	d/or other administrative change(s)		
	Change in owner			
	Change(s) affecti	ng plant equipment, fuel use, power p	roduction capaci	ty and/or cogeneration thermal output
		ection to a previous filing submitted or		
	(describe the supple	ement or correction in the Miscellaneo	ous section starti	ng on page 24)
	to the extent possible	e, explaining any special circumstance	s in the Miscella	
	previously granted	complies with the Commission's QF re by the Commission in an order dated ellaneous section starting on page 24)		irtue of a waiver of certain regulations (specify any other relevant waiver
	The instant facility concurrently with t	would comply with the Commission's this application is granted	QF requirements	if a petition for waiver submitted
	employment of ur		contemplated by	pecial circumstances, such as the the the structure of this form, that make scribe in Misc. section starting on p. 24)

-					
	2a Name of contact person William Fyfe			2b Telephone number 416-949-8168	
	2c Which of the following describes	the contact person's relation	ship to the app	licant? (check one)	+
				ed to represent the applicant	
ion	Employee of a company affiliate	ed with the applicant authori	zed to represen	t the applicant on this matter	
nati	Lawyer, consultant, or other re	oresentative authorized to re	present the app	olicant on this matter	
Jorn	2d Company or organization name (Bolt ORC Project SPV LLC	if applicant is an individual,	check here and	skip to line 2e)	6
Contact Information	2e Street address (if same as Applica	nt, check here and skip to lir	ne 3a) 🔀		
Ö	2f City	2	g State/prov	ince	
	2h Postal code	2i Country (if not United St	ates)		
Ľ	3a Facility name ORC003.Z				
Location	3b Street address (if a street address	does not exist for the facility	y, check here ar	nd skip to line 3c)	١.
0	6477 Wells Park Road			- kangapit	-
dentification and	3c Geographic coordinates: Specify t places). Use the following formula to degrees + (minutes/60) + (seconds/36) Latitude 40.575 degrees	convert to decimal degrees f 00). See the "Geographic C	rom degrees, m oordinates" sec	ninutes and seconds: decimal degrees =	
_	3d City (if unincorporated, check her	e and enter nearest city)	3e State/pr	rovince	
Facility	3f County (or check here for indepen	ndent city) 3g (Country (if not	United States)	40
ш	Salt Lake	,,	, ()	,	-
	Identify the electric utilities that are o	ontemplated to transact with	n the facility.		
Utilities	4a Identify utility interconnecting w N/A - facility will not	•	ne grid		
g Uti	4b Identify utilities providing wheeli	ng service or check here if n	one 🛚		•
Transacting	4c Identify utilities purchasing the us	seful electric power output o	r check here if	none 🔀	•
Tran	4d Identify utilities providing suppler service or check here if none	nentary power, backup powe	r, maintenance	power, and/or interruptible power	T

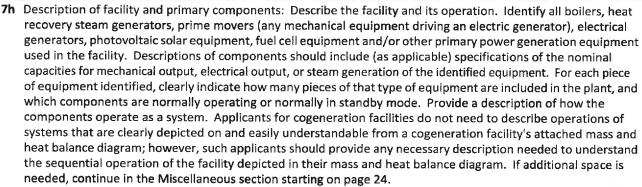
two direct owners with the largest equity interest in the facilit	Electric utility or holding company	If Yes % equi intere
1) Bolt ORC Project SPV LLC ("Bolt Project")	Yes 🔀 No 🗌	10
2)	Yes No	
3)	Yes No	
4)	Yes No	
5)	Yes No	
6)	Yes No	_
7)	Yes No	
8)	Yes No	
9)	Yes No	
 Check here and continue in the Miscellaneous section st Upstream (i.e., indirect) ownership as of effective date or ope of the facility that both (1) hold at least 10 percent equity inte defined in section 3(22) of the Federal Power Act (16 U.S.C. 79 1262(8) of the Public Utility Holding Company Act of 2005 (42 equity interest in the facility held by such owners. (Note that, another, total percent equity interest reported may exceed 10 	ration date: Identify all upstream (i.e., indired erest in the facility, and (2) are electric utilities 96(22)), or holding companies, as defined in s U.S.C. 16451(8)). Also provide the percentag because upstream owners may be subsidiari	ct) owner s, as ection ge of
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	6a	Describe t	he primary energy input: (c	heck one m	ain	category and, if a	pplicable,	one subcat	egory)	
		Bioma	ss (specify)	R	ene	wable resources (specify)	Geot	hermal	
			Landfill gas			Hydro power - ri	iver		l fuel (spec	ify)
			Manure digester gas			Hydro power - ti	dal		Coal (not	waste)
			Municipal solid waste			Hydro power - w	/ave		Fuel oil/d	iesel
			Sewage digester gas			Solar - photovolt	aic	\boxtimes	Natural g	as (not waste)
			Wood			Solar - thermal			Other fos	
			Other biomass (describe on	page 24)		Wind	_			on page 24)
		Waste	(specify type below in line 6	5b)		Other renewable (describe on pa		Othe	er (describe	on page 24)
	6b	If you spec	cified "waste" as the primary	energy inpu	ıt in	line 6a, indicate t	he type of	waste fuel	used: (chec	k one)
		☐ Wast	te fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecif	y one of the follo	wing)			
			Anthracite culm produced	prior to July	23,	1985				
			Anthracite refuse that has a ash content of 45 percent of		neat	content of 6,000	Btu or less	per pound	an d ha s an	average
			Bituminous coal refuse that average ash content of 25				9,500 Btu p	er pound o	r less and h	nas 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-Federa	State For i	es Department of non-Indian lands	the Interion	or's Bureau BLM's jurisd	of Land Ma liction, pro	nagement vided that
Energy Input			Coal refuse produced on Fe BLM or that is located on n applicant shows that the la	on- Federal	or n	on-Indian lands o	utside of B	LM's jurisdi	ction, prov	
Ш			Lignite produced in associated as a result of such a mining			roduction of mo	ntan wax a	nd lignite th	nat becom	es exposed
			Gaseous fuels (except natu	ıral gas and	synt	hetic gas from co	oal) (descril	oe on page	24)	
			Waste natural gas from gas C.F.R. § 2.400 for waste nat compliance with 18 C.F.R. §	tural gas; inc	(de	scribe on page 2 e with your filing	4 how the ខ្ any materi	gas meets t als necessar	he require ry to demo	ments of 18 nstrate
			Materials that a governme	ent agency h	nas (ertified for dispo	osal by con	nbustion (d	escribe on	page 24)
			Heat from exothermic reac	tions (descri	be c	on page 24)	□ R	esidual hea	t (describe	on page 24)
			Used rubber tires] Plastic ma	teri	als 🗌 F	Refinery off	-gas	☐ Petro	oleum coke
		facilit	r waste energy input that ha ty industry (describe in the N of commercial value and exis	⁄iscellaneou	ıs se	ction starting on	page 24; in	clude a disc		
	6с	energy inp	e average energy input, calcu outs, and provide the related). For any oil or natural gas f	percentage	of t	he total average a	nnual ener	gy input to		
			Fuel			average energy or specified fuel		Percentage annual ene		
			Natural gas				Btu/h		95 %	
			Oil-based fuels			(Btu/h		0 %	
			Coal				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)

7a The maximum gross power production capacity at the terminals of the individual generator(s)	
under the most favorable anticipated design conditions	54,600 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	
reported parasitic station power.	kW
7c Electrical losses in interconnection transformers	kW
7d Electrical losses in AC/DC conversion equipment, if any	
	o kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection	
with the utility	305.7 kW
7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	
	o kW
7g Maximum net power production capacity = 7a - 7f	
	o kW



The facility consists of Bloom Energy Servers (fuel cells) which take as an input natural gas, convert that natural gas into hydrogen, and through an electrochemical process convert that hydrogen into electricity, with outputs of electricity and heat. The heat is then recirculated to increase the efficiency of the conversion of natural gas into hydrogen. All of these processes are designed to run 24/7.

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 pages 11 through 15.

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 8f below (as applicable).

Electric Generating Equipment

Check here if no such facilities exist.

Electrical generating equipment will refer to all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar panels, inverters, fuel cell equipment and/or other primary power generation equipment used in the facility, excluding equipment for gathering energy to be used in the facility. Each wind turbine on a wind farm and each solar panel in a solar facility is considered electrical generating equipment because each wind turbine and each solar panel is independently capable of producing electric energy.

Distance

The distance between two facilities is to be measured from the edge of the closest electrical generating equipment for which qualification or recertification is sought to the edge of the nearest electrical generating equipment of the other affiliated small power production qualifying facility using the same energy resource. An affiliated small power production QF located one mile or less from the instant facility is irrebuttably presumed to be at the same site. An affiliated small power production QF located more than one mile and less than 10 miles from the instant facility is rebuttably presumed to be at a separate site. An affiliated small power production QF located 10 miles or more from the instant facility is irrebuttably presumed to be located at a separate site.

8a Identify affiliated small power production QFs located less than 10 miles from the electrical generating equipment of the instant facility that use the same energy resource and are held (with at least a 5 percent equity interest) by any of the entities identified in lines 5a or 5b or their affiliates. Specify the latitude and longitude coordinates for both the applicant and the affiliate small power production QF based on the nearest electrical generating equipment for each facility. Report coordinates in degrees (to three decimal places) as a positive number for east and north or a negative number for west and south. Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 5 for help obtaining coordinates. The distances for each facility listed below will be automatically calculated from the reported coordinates. See www.ferc.gov/QF for more information on how this form calculates distance.

•	location ounty, state)		t docket # (if any)		m net power ion capacity	Common owner(s
		QF	-		kW	The state of the s
Coordinates (in	degrees) and Distand	ce (mile	es):			
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Latitude	Choose +/-	Lo	ngitude		Choose +/-	
	al generating equipr			facility:	choose +/-	



	8a	Continued			
		Facility location (city or county, state)	Root docket # (if any) QF -	Maximum net power production capacity kW	Common owner(s)
		Coordinates (in degrees) and Distan	ce (miles):		
	2)	Closest electrical generating equipm	nent for applicant's	facility:	
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nned		Latitude Choose +/-	Longitude	Choose +/-	0 miles
Compliance with Size Limitations (continued		Facility location (city or county, state)	Root docket # (if any)	Maximum net power production capacity	Common owner(s)
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nit	3)	Closest electrical generating equipm			
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plia			QF -	kW	
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atio		Closest electrical generating equip	ment for affiliate's	facility:	Distance
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		Coordinates (in degrees) and Distance	ce (miles):		
	5)	Closest electrical generating equipm	ent for applicant's	facility:	
		Latitude Choose +/-	Longitude	Choose +/-	
		Closest electrical generating equip	ment for affiliate's	facility:	Distance
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atic		Closest electrical generating equ	ipment for affiliate's	facility:	Distance
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Cer		Facility location (city or county, state)	Root docket #	Maximum net power production capacity	Common owner(s)
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mile but less than 10 miles apart there is a rebuttable presumption that they are at separate sites. The factors listed below are examples of the factors that the Commission may consider in deciding whether small power production facilities that are owned by the same person(s) or its affiliates are located "at the same site": (1) physical characteristics, including such common characteristics as: infrastructure, property ownership, property leases, control facilities, access and easements, interconnection agreements, interconnection facilities up to the point of interconnection to the distribution or transmission system, collector systems or facilities, points of interconnection, motive force or fuel source, off-take arrangements, connections to the electrical grid, evidence of shared control systems, common permitting and land leasing, and shared step-up transformers; and (2) ownership/other characteristics, including such characteristics as whether the facilities in question are: owned or controlled by the same person(s) or affiliated persons(s), operated and maintained by the same or affiliated entity(ies), selling to the same electric utility, using common debt or equity financing, constructed by the same entity within 12 months, managing a power sales agreement executed within 12 months of a similar and affiliated small power production qualifying facility (continued next page)...

Certification of Compliance with Size Limitations (continued) Certification of Compliance

8b Con	tinued
power p	nued from previous page) in the same location, placed into service within 12 months of an affiliated small roduction QF project's commercial operation date as specified in the power sales agreement, or sharing ring or procurement contracts.
exempti	Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides on from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act?
, m adm	Yes (continue at line 8d below) No (skip lines 8d through 8f)
	the original notice of self-certification or application for Commission certification of the facility filed on or December 31, 1994? Yes No
8e Did	construction of the facility commence on or before December 31, 1999? Yes No
	u answered No in line 8e, indicate whether reasonable diligence was exercised toward the completion of ity, taking into account all factors relevant to construction? Yes No
construc	nswered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 24 of the ction timeline (in particular, describe why construction started so long after the facility was certified) and the exercised toward completion of the facility.
prevent the published for	t to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal s, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or ion of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting lic health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month beginning with the date the facility first produces electric energy or any calendar year thereafter.
9a Cert	ification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:
	Applicant certifies that the facility will use fossil fuels exclusively for the purposes listed above.
	ification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:
	Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 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 16 through 18. Otherwise, skip pages 16 through 18.

		Pursuant to 18 C.F.R. § 292.202(c), a cogeneration facility produces electric energy and forms of useful thermal energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes, through the sequential use of energy. Pursuant to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping-cycle cogeneration facility, the use of reject heat from a power production process in sufficient amounts in a thermal application or process to conform to the requirements of the operating standard contained in 18 C.F.R. § 292.205(a); or (2) for a bottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal application or process for power production.					
		10a What type(s) of cogeneration technology does the facility represent? (check all that apply)					
		∑ Topping-cycle	cogeneration Bottoming-cycle cogeneration				
		10b To help demonstrate the sequential operation of the cogeneration process, and to support compliance with other requirements such as the operating and efficiency standards, include with your filing a mass and heat balance diagram depicting average annual operating conditions. This diagram must include certain items and meet certain requirements, as described below. You must check next to the description of each requirement below to certify that you have complied with these requirements.					
		Check to certify					
		compliance with indicated requirement	Requirement				
ration			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.				
gener	natior	\boxtimes	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	\boxtimes	iagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel or supplementary firing should be specified separately and clearly labeled. All pecifications of fuel inputs should use lower heating values.				
		\boxtimes	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.				
			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 24, 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.				
		\boxtimes	Diagram must specify working fluid flow conditions at make-up water inputs.				

	EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No
	11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No
a)	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.
Act 2005 Requirements for Fundamental Use Energy Output from Cogeneration 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?
	Yes (continue at line 11d below)
-undar eration	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 gene	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?
ments rom Ca	Yes. Provide in the Miscellaneous section starting on page 24 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 Fundam Energy Output from Cogeneration	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 Red y Outp	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?
t 200 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?
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.

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

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

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

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

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

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



Usefulness of Topping-Cycle Thermal Output

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 19 and 20. Otherwise, skip pages 19 and 20.

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 Thermal host's relationship to facility; Name of entity (thermal host) heat contained in process return or make-up water) Thermal host's use of thermal output taking thermal output Other (describe in line 12b) Heat output recirculat 1) Other ind. process (describe in line 12b) Btu/h to produce hydrogen Select thermal host's relationship to facility 2) Btu/h Select thermal host's use of thermal output Select thermal host's relationship to facility 3) Btu/h Select thermal host's use of thermal output 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) Btu/h Select thermal host's use of thermal output Select thermal host's relationship to facility 6) Btu/h Select thermal host's use of thermal output Check here and continue in the Miscellaneous section starting on page 24 if additional space is needed 12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 24.

Heat is used by a fuel cell system with an integrated steam hydrocarbon reformation process for production of fuel for electricity generation, as provided by 18 CFR § 292.202(h)(4).

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

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

which mass and energy flow values and system components are for which portion (top	ping or bottoming) of t	:he
cogeneration system.		
13a Indicate the annual average rate of useful thermal energy output made available		
to the host(s), net of any heat contained in condensate return or make-up water		Btu/h
13b Indicate the annual average rate of net electrical energy output		
	51,870	kW
13c Multiply line 13b by 3,412 to convert from kW to Btu/h		
	176,980,440	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)	0	hp
13e Multiply line 13d by 2,544 to convert from hp to Btu/h		
, ,	0.0	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 gre	ater than or equal to 59	6?
	ith operating standard)	
Tes (compiles with operating standard)	tir operating standara,	
13j Did installation of the facility in its current form commence on or after March 13, 1	980?	
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205	(a)(2). Demonstrate	
compliance with the efficiency requirement by responding to line 13k or 13l, as	applicable, below.	

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 value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h greater than or equal to 45%:

Yes (complies with efficiency standard)

13I Compliance with efficiency standard (for high operating value): If the operating value shown in line 13g is greater than or equal to 15%, then indicate below whether the efficiency value shown in line 13h is greater than or equal to 42.5%:

No (does not comply with efficiency standard)

∑ Yes (complies with efficiency standard)
 ☐ No (does not comply with efficiency standard)

Usefulness of Bottoming-Cycle Thermal Output

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 21 and 22. Otherwise, skip pages 21 and 22.

14a	Identify and describe each them host. For hosts with multiple be separate rows.	nal host and each bottoming-cycle cogeneration of the cogeneration processes, provide the cogeneration processes.	e the data for each process
	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 inputhe the thermal host be augmented for purpoof increasing power production capacity (if Yes, describe on p.
1)		Select thermal host's relationship to facility	Yes No
1)		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No
2)		Select thermal host's process type	
		Select thermal host's relationship to facility	i i
3/		Select thermal nost's relationship to facility	Yes No
14b iden	Demonstration of usefulness of the stified above. In some cases, this ity's process is not common, and	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief debrief description is sufficient to demonstrate use for if the usefulness of such thermal output is not	escription of each process fulness. However, if your treasonably clear, then you
iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and put provide additional details as necessitional information may be requirely lously received a Commission certify, then you need only provide a the order certifying your facility winges to the process have been manufactured.	Select thermal host's process type ne Miscellaneous section starting on page 24 if a thermal output: At a minimum, provide a brief debrief description is sufficient to demonstrate use	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of the used if any material
14b iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and/st provide additional details as neglitional information may be requirely ously received a Commission certify, then you need only provide a the order certifying your facility with	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief description is sufficient to demonstrate use for if the usefulness of such thermal output is not cessary to demonstrate usefulness. Your applicate and if an insufficient showing of usefulness is mad tification approving a specific bottoming-cycle properties of the process and a reference the the indicated process. Such exemption may necessary in the second content of the process.	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of the used if any material
14b iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and put provide additional details as necessitional information may be requirely lously received a Commission certify, then you need only provide a the order certifying your facility winges to the process have been manufactured.	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief description is sufficient to demonstrate use for if the usefulness of such thermal output is not cessary to demonstrate usefulness. Your applicate and if an insufficient showing of usefulness is mad tification approving a specific bottoming-cycle properties of the process and a reference the the indicated process. Such exemption may necessary in the second content of the process.	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of the used if any material
14b iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and put provide additional details as necessitional information may be requirely lously received a Commission certify, then you need only provide a the order certifying your facility winges to the process have been manufactured.	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief description is sufficient to demonstrate use for if the usefulness of such thermal output is not cessary to demonstrate usefulness. Your applicate and if an insufficient showing of usefulness is mad tification approving a specific bottoming-cycle properties of the process and a reference the the indicated process. Such exemption may necessary in the second content of the process.	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of the used if any material
14b iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and put provide additional details as necessitional information may be requirely lously received a Commission certify, then you need only provide a the order certifying your facility winges to the process have been manufactured.	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief description is sufficient to demonstrate use for if the usefulness of such thermal output is not cessary to demonstrate usefulness. Your applicate and if an insufficient showing of usefulness is mad tification approving a specific bottoming-cycle properties of the process and a reference the the indicated process. Such exemption may necessary in the second content of the process.	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of be used if any material
14b iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and put provide additional details as necessitional information may be requirely lously received a Commission certify, then you need only provide a the order certifying your facility winges to the process have been manufactured.	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief description is sufficient to demonstrate use for if the usefulness of such thermal output is not cessary to demonstrate usefulness. Your applicate and if an insufficient showing of usefulness is mad tification approving a specific bottoming-cycle properties of the process and a reference the the indicated process. Such exemption may necessary in the second content of the process.	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of the used if any material
14b iden facil mus add prev facil to tl	Demonstration of usefulness of the stiffied above. In some cases, this lity's process is not common, and put provide additional details as necessitional information may be requirely lously received a Commission certify, then you need only provide a the order certifying your facility winges to the process have been manufactured.	Select thermal host's process type ne Miscellaneous section starting on page 24 if a chermal output: At a minimum, provide a brief description is sufficient to demonstrate use for if the usefulness of such thermal output is not cessary to demonstrate usefulness. Your applicate and if an insufficient showing of usefulness is mad tification approving a specific bottoming-cycle properties of the process and a reference the the indicated process. Such exemption may necessary in the second content of the process.	escription of each process fulness. However, if your treasonably clear, then you tion may be rejected and/oe. (Exception: If you have rocess related to the instan by date and docket number of be used if any material

No (does not comply with efficiency standard)

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

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

15a Did installation of the facility in its current form commence on or after March 13, 198	30?
Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b) with the efficiency requirement by responding to lines 15b through 15h below.	. Demonstrate compliance
No. Your facility is exempt from the efficiency standard. Skip the rest of page 22	•
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	0 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	0 %
15h Compliance with efficiency standard: Indicate below whether the efficiency value s	shown in line 15g is greater

Certificate of Completeness, Accuracy and Authority

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

rejected by the Secretary of the Commission.

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

He or she has read the filing, including any information contained in any attached documents, such as cogeneration

✓ mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 24, and knows its contents.
 ✓ He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.
 ✓ He or she possess full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)
 ☐ The person on whose behalf the filing is made
 ✓ An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made
 ☐ 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

 \bowtie He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 24.

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

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

Your Signature

Your address

250 Vesey Street, 15th Floor
New York, NY 10281-1023

10/22/2025

Audit Notes			
Commission Staff Use O	nly:		

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.

Explanation of Privileged Designations:

6c: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

7b: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

7c: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

10b (solely w/r/t Fig.3): Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

12a: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

13a: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

13f: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

13g: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

13h: Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

Misc.(solely w/r/t Fig. 3): Confidential and proprietary, as reveals internal efficiency of integrated hydrogen fuel production

lm: Heat is used by a fuel cell system with an integrated steam hydrocarbon reformation process for production of fuel for electricity generation, as provided by 18 CFR § 292.202(h)(4). Information regarding heat use and related fuel production efficiency is proprietary and confidential, due to the employment of the unique and innovative nature of fuel cell technologies. As the form does not allow for any change or redaction of calculated values, some of those values are shown in the public version of the form as "zero" when the inputs used to calculate the line are redacted. If the form allowed for editing those lines, they should be blank (redacted) instead of "zero," or, as noted below with respect to line 7g, made publicly available.

5b (con.'t): From time to time, the entities identified below may hold their interests in BIP Bermuda Holdings I Limited ("BIP Bermuda Holdings I") and Brookfield Infrastructure Group LLC ("Brookfield Infrastructure Group") through one or more subsidiaries, all of which are affiliates of Brookfield Corporation and Brookfield Asset Management Ltd. ("BAM Ltd." and together with Brookfield Corporation, "Brookfield"). Accordingly, Brookfield ultimately controls BIP Bermuda Holdings I and Brookfield Infrastructure Group.

BIP Bermuda Holdings I: BIP Bermuda Holdings I is a wholly-owned direct subsidiary of Brookfield Infrastructure L.P. ("Brookfield Infrastructure"). Brookfield Infrastructure has limited partnership units that have limited consent rights similar to those recognized by the Commission in AES Creative Resources, L.P., 129 FERC ¶ 61,239 at n.10 & P 21 (2009) (AES Creative Resources) and that do not provide for any right to participate in the management or control of Brookfield Infrastructure. Brookfield Infrastructure also has managing general partnership units, which are held by Brookfield Infrastructure Partners L.P. ("Brookfield Infrastructure Partners"), and special general partnership interests, which are held by Brookfield Infrastructure Special L.P. ("Brookfield Infrastructure Special"). Each of Brookfield Infrastructure Partners and Brookfield Infrastructure Special is described below.

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Miscellaneous (continued)

Brookfield Infrastructure Partners: Brookfield Infrastructure Partners Limited, a wholly-owned indirect subsidiary of Brookfield Corporation, owns the general partnership units in Brookfield Infrastructure Partners. Brookfield Infrastructure Partners also has preferred units and limited partnership units that are owned by affiliates of Brookfield Corporation and third-party investors. Both of the preferred units and the limited partnership units are non-voting and do not provide any right to participate in the management or control of Brookfield Infrastructure Partners.

Brookfield Infrastructure Special: BIG Manager Holdings L.P. ("BIG Manager Holdings") directly owns the limited partnership units in Brookfield Infrastructure Special and indirectly owns the general partnership units in Brookfield Infrastructure Special through its wholly-owned direct subsidiary, Brookfield Infrastructure Special GP Limited. BIG Manager Holdings is held by Brookfield Asset Management ULC ("BAM ULC"), which directly owns the limited partnership units in BIG Manager Holdings and indirectly owns the general partnership units in BIG Manager Holdings through its wholly-owned direct subsidiary BIG Manager Holdings GP ULC. BAM ULC is owned by BAM Ltd., which is the principal holding entity for Brookfield's asset management business and a subsidiary of Brookfield Corporation.

Brookfield Infrastructure Group: Brookfield Infrastructure Group LLC is a wholly-owned indirect subsidiary of Brookfield US Holdings Inc. ("Brookfield US Holdings"). All of the voting shares of Brookfield US Holdings are owned by BAM ULC, which is described above. Brookfield US Holdings also has non-voting preferred shares that do not provide any right to participate in the management or control of Brookfield US Holdings.

Other than Columbia Management Investment Advisors LLC, as listed above, no other entity owns or controls, directly or indirectly, 10% or greater voting equity interest (or voting equity interest together with the right to appoint a non-independent board member) in Bloom.

10b(con.'t): We have checked the final 4 boxes in 10b, but they are shown as inapplicable to the fuel cell system. A working fluid such as hot water, as they are shown in the diagram, is normally used to transfer the heat from the heat source heat exchanger at one physical location to the heat use heat exchanger at a different physical location. In the Bloom Energy fuel cell system, there is no working fluid as the heat use (steam reformation) and the heat generation (exothermic power generation) happen in the same unit, the Bloom Energy Power Module through a steam reformation process. The hydrogen that is generated is then used on the anode side of the fuel cell. Simultaneously, ambient air enters the cathode side of the fuel cell. The hydrogen on the anode attracts oxygen ions from the cathode. As illustrated in Figure 2 (attached), the resulting electrochemical reaction produces electricity, plus the heat and steam that is needed in the beginning of the process to continue the reformation of natural gas into hydrogen fuel.

13: As shown in the non-public version, the topping-cycle efficiency value is greater than or equal to 42.5%. As the public version of the form does not allow for redaction of calculated values based on redacted information, some values in this section are shown as "zero" when they should actually be blank (redacted).

Misc.: Specifics of the Bloom fuel cells comprising these energy servers are described as follows:

The facility utilizes Solid Oxide Fuel Cell ("SOFC") technology to sequentially produce hydrogen and then electricity. As illustrated in Figure 1 (attached), when operating on methane gas, SOFCs generate hydrogen through a steam reformation process. The hydrogen

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Miscellaneous (continued)

that is generated is then used on the anode side of the fuel cell system. Simultaneously, ambient air enters the cathode side of the fuel cell system. The hydrogen on the anode attracts oxygen ions from the cathode. As illustrated in Figure 2 (attached), the resulting electrochemical reaction produces electricity, plus the heat and steam that is needed in the portion of the system in which natural gas is reformed into hydrogen fuel.

Fuel cells convert the chemical energy in hydrogen directly to electrical energy without combustion. This electrochemical conversion enables a significant leap forward in efficiency of electric generation. The recirculation of the heat and steam from the electric generation process to the portion of the fuel cell system that creates hydrogen fuel increases the fuel production efficiency as well, making the entire fuel cell system even more efficient.

Figure 3 (attached) summarizes the nominal energy flows for the SOFC system that is the subject of this application. The SOFC system is assumed to operate at the LHV efficiency and corresponding the heat rate shown in Figure 3. Reformation of the natural gas to hydrogen increases the LHV content of the fuel by using the heat liberated during power production to satisfy the energy balance of the endothermic reformation reaction. As shown in the illustration, the heat produced during the electrochemical conversion is recycled internally within the SOFC system, not wasted, to make hydrogen fuel, a well-known industrial product. As the cycle continues, the hydrogen produced by the recycled heat generates electricity and heat; and again, a portion of that heat is recycled to increase the efficiency of the reformation of natural gas to produce more hydrogen fuel. The percentage of internal heat recycled relative to the reformed fuel LHV content could alternatively be viewed as a percentage of the LHV content of the original natural gas. This internal, sequential cycle, with its efficient use of heat and natural gas to first produce hydrogen and then produce power and heat (the latter of which is then used to enhance the efficiency of producing hydrogen) occurs constantly within the SOFC system.

Figure 1: SOFC Chemical Reactions

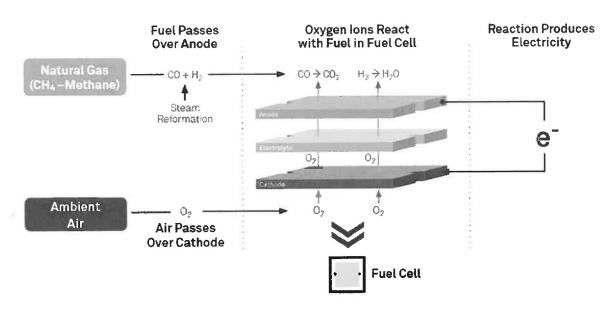


Figure 2: Fuel Cell Reuse of Steam and Heat for SMR Reaction in an SOFC System

