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### UTILITIES COMMISSION

#### SOUTH DAKOTA PUBLIC FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 11/30/2022

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

#### General

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

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 <a href="https://www.reginfo.gov/public/do/PRAMain">www.reginfo.gov/public/do/PRAMain</a>. 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 <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a> 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.

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#### Electronic Filing (eFiling)

To electronically file your Form 556, visit the Commission's QF website at <a href="www.ferc.gov/QF">www.ferc.gov/QF</a> 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 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 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 <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a> and clicking the Notice Requirements link.

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

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

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

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

#### 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 <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a>). 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 <a href="https://earth.google.com">www.ferc.gov/QF</a>. You may also be able to obtain your geographic coordinates from a GPS device, Google Earth (available free at <a href="http://earth.google.com">http://earth.google.com</a>), a property survey, various engineering or construction drawings, a property deed, or a municipal or county map showing property lines.

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

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

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

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

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 <a href="https://www.ferc.gov/QF">www.ferc.gov/QF</a>. To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above all fields which contain data for which you are seeking non-public status.

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

#### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 11/30/2022

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

1b Applicant street a c/o Greenback 230 Park Ave,	er Renewable Energy Corporat	ion	
1c City New York		1d State/prov	ince
1e Postal code	1f Country (if not United States)		1g Telephone number 207-888-0911
1h Has the instant fa-	cility ever previously been certified as a C	⊋F? Yes X N	No
1i If yes, provide the	docket number of the last known QF filin	g pertaining to th	nis facility: <b>QF</b> 20 - 572 - 002
1j Under which certif	ication process is the applicant making t	his filing?	
Notice of self-ce	rtification $\Box$ $f$	Application for Co ee; see "Filing Fee	ommission certification (requires filing e" section on page 2)
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1k What type(s) of QI	status is the applicant seeking for its fac	ility? (check all th	at apply)
imes Qualifying smal	l power production facility status	Qualifying cogene	eration facility status
11 What is the purpos	e and expected effective date(s) of this fi	ling?	
	ation; facility expected to be installed by		nd to begin operation on
	previously certified facility to be effective		(a
	of change(s) below, and describe chang e and/or other administrative change(s)	e(s) in the Miscei	aneous section starting on page 24)
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	ility would comply with the Commission vith this application is granted	's QF requiremen	ts if a petition for waiver submitted
	ility complies with the Commission's reg of unique or innovative technologies not		

FERC Form 556 Page 7 - All Facilities

	2a Name of contact person			2b Telephone number	٦
	Julianne Hull			207-888-0911	
ation	2c Which of the following describes the ☐ Applicant (self) ☐ Employed ☐ Employee of a company affiliated ☐ Lawyer, consultant, or other representations.	ee, owner or partner of ap I with the applicant autho	oplicant authori orized to repres	ized to represent the applicant ent the applicant on this matter	
orm	2d Company or organization name (if	applicant is an individual			
Inf	Greenbacker Renewable Energ				-
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	2h Postal code 2	Li Country (if not United S	tates)		
uo	3a Facility name West River Solar, LLC				
ocatio	<b>3b</b> Street address (if a street address do	oes not exist for the facilit	y, check here a	nd skip to line 3c)	
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ıg Uti	4b Identify utilities providing wheeling	service or check here if r	none 🔀		C
Transacting Utilities	<b>4c</b> Identify utilities purchasing the usef Basin Electric Power Coope		or check here if	none	
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Yes   No   Yes   Yes   No   Yes	1)			ility or	lf °
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	6a	Describe 1	the primary energy input: (c	neck one m	ain c	ategory and, if applicable	, one subcat	tegory)	
		Bioma	sss (specify)	⊠ R	ene	wable resources (specify)	☐ Geo	othermal	
			Landfill gas			Hydro power - river	Fos	sil fuel (spec	ify)
			Manure digester gas			Hydro power - tidal		☐ Coal (not	waste)
			Municipal solid waste			Hydro power - wave		] Fuel oil/d	iesel
			Sewage digester gas			Solar - photovoltaic		] Natural g	as (not waste)
			Wood			Solar - thermal	_	Other fos	sil fuel
			Other biomass (describe on	page 24)		Wind	L	<sup>⊥</sup> (describe	on page 24)
		Waste	(specify type below in line 6	b)		Other renewable resource (describe on page 24)	e 🗌 Oth	er (describe	on page 24)
	6b	lf you spe	cified "waste" as the primary	energy inp	ut ir	n line 6a, indicate the type	of waste fu	el used: (che	ck one)
		☐ Wast	te fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecif	y one of the following)			
			Anthracite culm produced	prior to Jul	y 23,	, 1985			
			Anthracite refuse that has ash content of 45 percent		heat	content of 6,000 Btu or le	ess per pour	id and has a	n average
			Bituminous coal refuse tha average ash content of 25				u per pound	l or less and	has an
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands the						iu of Land M isdiction, pro	anagement ovided that	
(BLM) or that is located on non-Federal or non-Indian lands ou the applicant shows that the latter coal is an extension of that  Coal refuse produced on Federal lands or on Indian lands that  BLM or that is located on non-Federal or non-Indian lands out applicant shows that the latter is an extension of that determine						ion-Indian lands outside o	f BLM's juris	diction, pro	
Ш			Lignite produced in associates a result of such a mining		ne p	roduction of montan wax	and lignite	that become	es exposed
			Gaseous fuels (except natu	ral gas and	synt	hetic gas from coal) (desc	ribe on pag	e 24)	
			Waste natural gas from gas C.F.R. § 2.400 for waste nat compliance with 18 C.F.R.	ural gas; ind		• -	_	•	
			Materials that a governmen	nt agency h	as ce	ertified for disposal by cor	nbustion (d	escribe on p	age 24)
			Heat from exothermic reac	tions (descr	ibe	on page 24) 🔲	Residual he	eat (describe	on page 24)
			Used rubber tires	] Plastic ma	teri	als 🔲 Refinery o	ff-gas	☐ Petro	oleum coke
		facilit	r waste energy input that ha ty industry (describe in the N of commercial value and exi	Aiscellaneo	us se	ection starting on page 24	; include a c	liscussion of	
	•	energy inp	e average energy input, calc outs, and provide the related ). For any oil or natural gas f	l percentag	e of	the total average annual e	energy inpu		
						average energy	Percentag		
			Fuel Natural gas	inp	ut f	or specified fuel	annual ene	1	
			Oil-based fuels			6 <b>Btu/h</b>		0 %	
			Coal			6 Btu/h		0 %	
			Coal			C Btu/h		0 %	· · · · · · · · · · · · · · · · · · ·

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

7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	13,500 <b>kW</b>
<b>7b</b> Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	500 <b>kW</b>
7c Electrical losses in interconnection transformers	500 <b>kW</b>
7d Electrical losses in AC/DC conversion equipment, if any	1,000 <b>kW</b>
<b>7e</b> Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	1,500 <b>kW</b>
<b>7f</b> Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	s, s.a.a.s kW
<b>7g</b> Maximum net power production capacity = 7a - 7f	15,130.5 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 24.

The Solar Facility consists of Photo-voltaic panels, racking, wiring, inverter units, collector system, substation, metering and control house.

The qualifying facility includes all generator interconnection facilities necessary to deliver output from the facility to the interstate grid.



#### 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

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 <a href="www.ferc.gov/QF">www.ferc.gov/QF</a> for more information on how this form calculates distance.

Check here if no such facilities exist.

Facility loc (city or count		Root docket # (if any)		num net power ction capacity	Common owner(s)
Rapid City, SD	)	<b>QF</b> 20 - 573		10,000 kW	Citrine Solar, LLC
Coordinates (in degr					as described in 5k
Closest electrical ger Latitude 43.998	nerating equipn North (+)	nent for applicant Longitude 10	Anna and a second	West (-)	
	North (+)	Longitude 10	03.075	West (-)	Distance





	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	Common owner(
	QFkW	
	Coordinates (in degrees) and Distance (miles):	
2)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
	Latitude Choose +/- Longitude Choose +/-	Distance
	Longitude	
	Facility location Root docket # Maximum net power	
	(city or county, state) (if any) production capacity  QF - kW	Common owner(
		·
	Coordinates (in degrees) and Distance (miles):	
3)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	<del></del>
	Closest electrical generating equipment for affiliate's facility:	Distance
	Latitude Choose +/- Longitude Choose +/-	
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	Common owner(s
	QFkW	
	Coordinates (in degrees) and Distance (miles):	
4)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
	Latitude Choose +/- Longitude Choose +/-	
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	Common owner(s
	QF - kW	
	Coordinates (in degrees) and Distance (miles):	-
5)	Coordinates (in degrees) and Distance (miles):  Closest electrical generating equipment for applicant's facility:	
5)	Closest electrical generating equipment for applicant's facility:	
5)	Closest electrical generating equipment for applicant's facility:  Latitude Choose +/- Longitude Choose +/-	
5)	Closest electrical generating equipment for applicant's facility:	Distance

8a	Continued	
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity  QF - kW	Common owner(s)
	Coordinates (in degrees) and Distance (miles):	
6)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	
ŀ	Latitude Choose +/- Longitude Choose +/-	Distance miles
	Entrade Entrade :	· · · · · · · · · · · · · · · · · · ·
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	Common owner(s)
	QFkW	
	Coordinates (in degrees) and Distance (miles):	
7)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
	Latitude Choose +/- Longitude Choose +/-	mles
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	Common owner(s)
l	QF kW	
	Coordinates (in degrees) and Distance (miles):	
8)	Closest electrical generating equipment for applicant's facility:	
	Latitude Choose +/- Longitude Choose +/-	
	Closest electrical generating equipment for affiliate's facility:	Distance
E)	Latitude Choose +/- Longitude Choose +/-	miles
	Facility location Root docket # Maximum net power (city or county, state) (if any) production capacity	Common owner(s)
	QF kW	
	QF kW  Coordinates (in degrees) and Distance (miles):	
9)		
9)	Coordinates (in degrees) and Distance (miles):	
9)	Coordinates (in degrees) and Distance (miles):  Closest electrical generating equipment for applicant's facility:	Distance

	Facility location (city or county, state			Maximum net power production capacity	Common ow
	4	QF		kW	-
	Coordinates (in degrees) a	nd Distance (miles)	:		
10)	Closest electrical generatir	ng equipment for a	oplicant's fac	ility:	
	Latitude Ch	oose +/- Longi	tude	Choose +/-	
	Closest electrical generatir	ng equipment for af	filiate's facil	ty:	Distance
	Latitude Ch	oose +/- Longi	tude	Choose +/-	
pov deg	Check here and continue in the calculator below below tance Calculator Specify the ver production QF based on rees (to three decimal place	to calculate distant e latitude and long the nearest electric s) as a positive num	ices based o itude coordi al generatin ber for east	n facility coordinates. nates for both the appl g equipment for each f and north or a negative	icant and the affilia acility. Report coor number for west a
pow deg Use deg coo	the calculator below below tance Calculator Specify the ver production QF based on	e latitude and long the nearest electric s) as a positive num nvert to decimal de ads/3600). See the ach facility listed be	itude coordi tal generatin aber for east grees from d "Geographic elow will be	n facility coordinates.  nates for both the appling equipment for each for and north or a negative degrees, minutes and section of automatically calculate	icant and the affilia acility. Report coor e number for west a econds: decimal dec on page 5 for help o d from the reported
pow deg Use deg coo coo	the calculator below below tance Calculator Specify the ver production QF based on rees (to three decimal place the following formula to contrees + (minutes/60) + (secontrollinates). The distances for each	e latitude and long the nearest electric s) as a positive num nvert to decimal de nds/3600). See the ach facility listed be n/QF for more infor	itude coordi tal generatin aber for east grees from d "Geographic elow will be mation on h	n facility coordinates.  nates for both the appling equipment for each for and north or a negative degrees, minutes and section of automatically calculates ow this form calculates	icant and the affilia acility. Report coor e number for west a econds: decimal dec on page 5 for help o d from the reported
pow deg Use deg coo coo	tance Calculator Specify the ver production QF based on rees (to three decimal place the following formula to correes + (minutes/60) + (secondinates. The distances for experiments of the control of the	e latitude and long the nearest electric s) as a positive num nvert to decimal de nds/3600). See the ach facility listed be n/QF for more infor	itude coordi cal generatin aber for east grees from o "Geographic elow will be mation on h	n facility coordinates.  nates for both the appling equipment for each for and north or a negative degrees, minutes and section of automatically calculates ow this form calculates	icant and the affilia acility. Report coor e number for west a econds: decimal dec on page 5 for help o d from the reported
pow deg Use deg coo coo	tance Calculator Specify the ver production QF based on rees (to three decimal place the following formula to correes + (minutes/60) + (secondinates. The distances for experiments of the control of the	e latitude and long the nearest electrics) as a positive numer to decimal deads/3600). See the ach facility listed be 1/QF for more informations and the longest equipment for approase +/-  Longin	itude coordi tal generatin aber for east grees from d "Geographic elow will be mation on h	n facility coordinates.  nates for both the application of a negative degrees, minutes and section of automatically calculates ow this form calculates ty (degrees):  Choose +/-	icant and the affilia acility. Report coor e number for west a econds: decimal dec on page 5 for help o d from the reported

power production QFs using the same energy resource more than one mile but less than 10 miles from your facility. If additional space is needed, continue in the Miscellaneous section starting on page 24.

Pursuant to 18 C.F.R. § 292.204(a)(2)(i)(C), if affiliated small power producer qualifying facilities are more than one 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)...

ance	ents
omplia	Requirements
ofC	e Rec
atior	Fuel Use I
Certification of Compliance	vith Fu

FERC F	Form 556	Page 15 - Small Power Production
	8b Continued	
Certification of Compliance with Size Limitations (continued)	(continued from previous page) in the same location, placed into service power production QF project's commercial operation date as specified in tengineering or procurement contracts.	he power sales agreement, or sharing
on of Comp	8d Was the original notice of self-certification or application for Commissi	lities that were certified prior to 1995.  a) by virtue of the Incentives Act?  es 8d through 8f)
cat	before December 31, 1994? Yes No	
rtifi	<b>8e</b> Did construction of the facility commence on or before December 31, 1	999? Yes No
Cer	<b>8f</b> If you answered No in line 8e, indicate whether reasonable diligence we the facility, taking into account all factors relevant to construction? Yes	as exercised toward the completion of No
	If you answered Yes, provide a brief narrative explanation in the Miscellane construction timeline (in particular, describe why construction started so lo diligence exercised toward completion of the facility.	
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilit amounts, for only the following purposes: ignition; start-up; testing; flame prevention of unanticipated equipment outages; and alleviation or preventhe public health, safety, or welfare, which would result from electric powerused for these purposes may not exceed 25 percent of the total energy inperiod beginning with the date the facility first produces electric energy or	stabilization; control use; alleviation or tion of emergencies, directly affecting r outages. The amount of fossil fuels ut of the facility during the 12-month
	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to u	ses of fossil fuel:
	Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for	the purposes listed above.
icat uel	9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to a	
Certif with F	Applicant certifies that the amount of fossil fuel used at the facility percent of the total energy input of the facility during the 12-montl facility first produces electric energy or any calendar year thereafter	n period beginning with the date the

#### Information Required for Cogeneration Facility

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

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.

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.

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.

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 *liquid only* (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.

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

**11b** Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No



If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.

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**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)

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.

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**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?

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.

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.

11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?



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.

No. Applicant certifies that energy will *not* be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) *before* selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.

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.

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

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

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

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

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

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

11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal generation plant losses and parasitic loads) expected to be used annually for industrial, commercial, residential or institutional purposes and not sold to an electric utility	MWh
<b>11h</b> Total amount of electrical, thermal, chemical and mechanical energy expected to be sold to an electric utility	MWh
<b>11i</b> 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)	%

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.



thormal output

## 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 topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.

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

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

Check here and continue in the Miscellaneous section starting on page 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.



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.

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	kW
13c Multiply line 13b by 3,412 to convert from kW to Btu/h	Btu/h
<b>13d</b> 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	Btu/h
13f Indicate the annual average rate of energy input from natural gas and oil	Btu/h
<b>13g</b> Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)	7 0%
<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	0,0

13i Compliance with operating standard: Is the operating value shown in line 13g greater than or equal to 5%?

Yes (complies with operating standard)

No (does not comply with operating standard)

13j Did installation of the facility in its current form commence on or after March 13, 1980?

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)

No (does not comply with efficiency standard)

**13l** 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%:

Yes (complies with efficiency standard)

No (does not comply with efficiency standard)

the thermal host been

augmented for purposes

## Usefulness of Bottoming-Cycle Thermal Output

#### Information Required for Bottoming-Cycle Cogeneration Facility

Name of entity (thermal host)

performing the process from

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.

The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualifying bottoming-cycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below.

14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in separate rows.
Has the energy input to

	which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	of increasing power production capacity? (if Yes, describe on p. 24)
1)		Select thermal host's relationship to facility	Yes No
146		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No
		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No

Check here and continue in the Miscellaneous section starting on page 24 if additional space is needed

Select thermal host's process type

**14b** Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process 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 bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 24.

## Bottoming-Cycle Operating and Efficiency Value Calculation

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, 1980?

Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). Demonstrate compliance 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 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	
	Btu/h
<b>15d</b> 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)	an
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	Btu/h
<b>15f</b> Indicate the annual average rate of supplementary energy input from natural gas or oil	Btu/h
<b>15g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	- 0/0

**15h** Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater than or equal to 45%:

Yes (complies with efficiency standard)

No (does not comply with efficiency standard)

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#### 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 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 Commiss	ion.	,	
Signer identified below certifies the follow	wing: (check all items and applicable subitems)		
	ng any information contained in any attached docur d any information contained in the Miscellaneous se		
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 auti Practice and Procedure (18 C.F.R. § 38	hority to sign the filing; as required by Rule 2005(a)( 85.2005(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		
oxtimes An officer of the corporation,	trust, association, or other organized group on beh	alf of which the filing is made	
An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made			
	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 24.	herwise noted in the	
interconnect and transact (see lines 4) facility and those utilities reside. See page 4 for more information.  Provide your signature, address and signa Procedure (18 C.F.R. § 385.2005(c)) provide	Form 556 and all attachments to the utilities with was through 4d), as well as to the regulatory authorities the Required Notice to Public Utilities and State Required Notice (State Notice	es of the states in which the gulatory Authorities section on Rules of Practice and may use typed characters	
representing his or her name to sign the fi Typing his or her name) in the space provi	led documents. A person filing this document elec ded below.	tronically should sign (by	
Your Signature	Your address	Date	
Julianne Hull	230 Park Ave, Suite 1560 New York, NY 10169		
Audit Notes			

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#### Miscellaneous

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

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

lb-lg: update in contact information

5(a): West River Solar II, LLC is not currently an electric utility as defined under section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), but will become an electric utility on the date it first generates test power.