#### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

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

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

#### General

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

#### Who Must File

Any applicant seeking QF status or recertification of QF status for a generating facility with a net power production capacity (as determined in lines 7a through 7g below) greater than 1000 kW must file a self-certification or an application for Commission certification of QF status, which includes a properly completed Form 556. Any applicant seeking QF status for a generating facility with a net power production capacity 1000 kW or less is exempt from the certification requirement, and is therefore not required to complete or file a Form 556. See 18 C.F.R. § 292,203.

#### How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button ( assistance, or contact Commission staff at Form556@ferc.gov.

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

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

#### How to File a Completed Form 556

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

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

#### Paperwork Reduction Act Notice

This form is approved by the Office of Management and Budget, Compliance with the information requirements established by the FERC Form No. 556 is required to obtain or maintain status as a QF. See 18 C.F.R. § 131.80 and Part 292. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated burden for completing the FERC Form No. 556, including gathering and reporting information, is as follows: 3 hours for self-certification of a small power production facility, 8 hours for self-certifications of a cogeneration facility, 6 hours for an application for Commission certification of a small power production facility, and 50 hours for an application for Commission certification of a cogeneration facility. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the following: Information Clearance Officer, Office of the Executive Director (ED-32), Federal Energy Regulatory Commission, 888 First Street N.E., Washington, DC 20426 (DataClearance@ferc.gov); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (oira\_submission@omb.eop.gov). Include the Control No. 1902-0075 in any correspondence,

FERC Form 556 Page - Instructions

#### Electronic Filing (eFiling)

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

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

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

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

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

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

FERC Form 556 Page - Instructions

#### Filing Fee

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

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

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

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

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

#### Required Notice to Utilities and State Regulatory Authorities

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

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

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

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

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

#### Waiver Requests

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

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

FERC Form 556 Page - Instructions

#### **Geographic Coordinates**

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

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

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

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

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

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

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

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

#### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

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

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

	1a Full name of applicant (legal entity on whose behalf qualifying facility status is sought for this facility) SSD Marion 5 LLC				
	1b Applicant street address 8800 N. Gainey Center Dr., Suite 250				
	1c City Scottsdale		1d State/provi	nce	
	1e Postal code 85258	1f Country (if not United States)		<b>1g</b> Telephone number 480-653-8450	
	1h Has the instant facility	rever previously been certified as a Q	F? Yes 🗷 N	0	
	1i If yes, provide the docl	ket number of the last known QF filing	g pertaining to th	is facility: QF <u>17 - 1109 - 000</u>	
	1j Under which certificat	ion process is the applicant making th	nis filing?		
_	Notice of self-certific (see note below)	cation $\square_{fe}^{A}$	pplication for Co e; see "Filing Fee	mmission certification (requires filing " section on page 3)	
Application Information	Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 3 for more information.				
Infc	1k What type(s) of QF status is the applicant seeking for its facility? (check all that apply)				
on	🗷 Qualifying small power production facility status 🔲 Qualifying cogeneration facility status				
ati	11 What is the purpose and expected effective date(s) of this filing?				
plic	Original certification; facility expected to be installed by and to begin operation on				
Ap	Change(s) to a previously certified facility to be effective on $\frac{1/22/20}{}$ (identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 19)				
	☐ Name change and/or other administrative change(s)				
	☐ Change(s) affecting plant equipment, fuel use, power production capacity and/or cogeneration thermal output				
	Supplement or correction to a previous filing submitted on				
	(describe the supplement or correction in the Miscellaneous section starting on page 19)				
	1m If any of the following three statements is true, check the box(es) that describe your situation and complete the form to the extent possible, explaining any special circumstances in the Miscellaneous section starting on page 19.				
	The instant facility complies with the Commission's QF requirements by virtue of a waiver of certain regulations previously granted by the Commission in an order dated orders in the Miscellaneous section starting on page 19)				
	The instant facility would comply with the Commission's QF requirements if a petition for waiver submitted concurrently with this application is granted				
	employment of ur	complies with the Commission's regulique or innovative technologies not on of compliance via this form difficult of	ontemplated by		

	2a Name of contact person  Joshua Chavez			<b>2b</b> Telephone number 480-530-0457	
Contact Information	Which of the following describes the contact person's relationship to the applicant? (check one)  Applicant (self) Employee, owner or partner of applicant authorized to represent the applicant  Employee of a company affiliated with the applicant authorized to represent the applicant on this matter				
	Lawyer, consultant, or other representative authorized to represent the applicant on this matter				
	<b>2d</b> Company or organization name (if CD Arevon USA, Inc.	applicant is an individu	al, check here and	l skip to line 2e) 🔲	
Contact	<b>2e</b> Street address (if same as Applican' 8800 N. Gainey Center Dr.	•	line 3a)		
	2f City Scottsdale		<b>2g</b> State/provi	nce	
	2h Postal code 85258	2i Country (if not United	States)		
ion	<b>3a</b> Facility name SSD Marion 5				
nd Locat	<b>3b</b> Street address (if a street address d	loes not exist for the fac	lity, check here a	nd skip to line 3c) 🗷	
dentification and Location	3c Geographic coordinates: If you indicated that no street address exists for your facility by checking the box in line 3b, then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal places). 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 4 for help. If you provided a street address for your facility in line 3b, then specifying the geographic coordinates below is optional.				
dent	Longitude East (+)  West (-)  122.	794 degrees	Latitude [	North (+)   45.114 degrees	
Facility l	<b>3d</b> City (if unincorporated, check here Woodburn	and enter nearest city)	3e State/pr	ovince	
Fac	<b>3f</b> County (or check here for independ	lent city) 🗌 39	Country (if not	United States)	
	Identify the electric utilities that are contemplated to transact with the facility.				
ilities	4a Identify utility interconnecting with the facility Portland General Electric				
ng Ut	4b Identify utilities providing wheeling	g service or check here i	fnone 🗷		
Transacting Utilities	<b>4c</b> Identify utilities purchasing the use Portland General Electric	•	it or check here if	none [	
Trai	4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none  Portland General Electric				

	percent equity interest. For each identified owner, also (1) indicate whether that own defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding com 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) utilities or holding companies, provide the percentage of equity interest in the facility direct owners hold at least 10 percent equity interest in the facility, then provide the two direct owners with the largest equity interest in the facility.	pany, as d for owner held by th	efined in : rs which a nat owner	section are electric c. If no
	Full legal names of direct owners	Electric ( holo comp	ling	If Yes, % equity interest
1	SSD Marion 5 LLC	Yes 🗶	No 🗌	100
2		Yes 🗌	No 🗌	
3)		Yes 🗌	No 🗌	
4		Yes 🗌	No 🗌	
5		Yes 🗌	No 🗌	
6		Yes 🗌	No 🗌	
7)		Yes 🗌	No 🗌	
8		Yes 🗌	No 🗌	
9		Yes 🗌	No 🗌	
1	0)	Yes 🗌	No 🗌	
	1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p interest in the facility held by such owners. (Note that, because upstream owners may			~~ ~£ ~~
	another, total percent equity interest reported may exceed 100 percent.)  Check here if no such upstream owners exist.   X		diaries of o	one
	Check here if no such upstream owners exist.   Full legal names of electric utility or holding company upstream owners		diaries of o	% equity interest
1)	Check here if no such upstream owners exist.   Full legal names of electric utility or holding company upstream owners that Solar 1 HoldCo, LLC*		diaries of 6	% equity interest
1)	Check here if no such upstream owners exist.   Full legal names of electric utility or holding company upstream owners that Solar 1 HoldCo, LLC*  Thor Solar 1 InvestCo, LLC		diaries of 6	% equity interest 100
1) 2) 3)	Check here if no such upstream owners exist.   Full legal names of electric utility or holding company upstream owners are the solar 1 HoldCo, LLC*  Thor Solar 1 InvestCo, LLC  Thor Solar 1 CEI, LLC		diaries of 6	% equity interest 100 100
2) 3) 4)	Check here if no such upstream owners exist.   Full legal names of electric utility or holding company upstream owners and the solar 1 HoldCo, LLC*  Thor Solar 1 InvestCo, LLC  Thor Solar 1 CEI, LLC  Thor Solar CEI, LLC		diaries of 6	% equity interest 100 100 100
2) 3) 4) 5)	Full legal names of electric utility or holding company upstream owners are thor Solar 1 HoldCo, LLC*  Thor Solar 1 InvestCo, LLC  Thor Solar 1 CEI, LLC  Thor Solar CEI, LLC  CD Clean Energy and Infrastructure (Joint Holdings), LLC**		diaries of d	% equity interest  100  100  100  100
2) 3) 4) 5)	Full legal names of electric utility or holding company upstream owner Thor Solar 1 HoldCo, LLC* Thor Solar 1 InvestCo, LLC Thor Solar 1 CEI, LLC Thor Solar CEI, LLC CD Clean Energy and Infrastructure (Joint Holdings), LLC** CD Clean Energy and Infrastructure VII JV (HoldCo), LLC		diaries of d	% equity interest  100  100  100  100  86.5
2) 3) 4) 5) 6)	Full legal names of electric utility or holding company upstream owner Thor Solar 1 HoldCo, LLC* Thor Solar 1 InvestCo, LLC Thor Solar 1 CEI, LLC Thor Solar 1 CEI, LLC CD Clean Energy and Infrastructure (Joint Holdings), LLC** CD Clean Energy and Infrastructure VII JV (HoldCo), LLC CD Clean Energy and Infrastructure VII JV (InvestCo), LLC		diaries of d	% equity interest  100 100 100 100 86.5
2) 3) 4) 5) 6) 7)	Full legal names of electric utility or holding company upstream owner.  Thor Solar 1 HoldCo, LLC*  Thor Solar 1 InvestCo, LLC  Thor Solar 1 CEI, LLC  Thor Solar CEI, LLC  CD Clean Energy and Infrastructure (Joint Holdings), LLC**  CD Clean Energy and Infrastructure VII JV (HoldCo), LLC  CD Clean Energy and Infrastructure VII JV (InvestCo), LLC  CD Clean Energy and Infrastructure VII JV, LLC		diaries of d	% equity interest  100  100  100  100  100  100  100  1
2) 3) 4) 5) 6) 7) 8)	Full legal names of electric utility or holding company upstream owner Thor Solar 1 HoldCo, LLC* Thor Solar 1 InvestCo, LLC Thor Solar 1 CEI, LLC Thor Solar CEI, LLC CD Clean Energy and Infrastructure (Joint Holdings), LLC** CD Clean Energy and Infrastructure VII JV (HoldCo), LLC CD Clean Energy and Infrastructure VII JV (InvestCo), LLC CD Clean Energy and Infrastructure VII JV, LLC		diaries of d	% equity interest  100  100  100  100  100  100  100  1
2) 3) 4) 5) 6) 7) 8)	Full legal names of electric utility or holding company upstream owner.  Thor Solar 1 HoldCo, LLC*  Thor Solar 1 InvestCo, LLC  Thor Solar 1 CEI, LLC  Thor Solar CEI, LLC  CD Clean Energy and Infrastructure (Joint Holdings), LLC**  CD Clean Energy and Infrastructure VII JV (HoldCo), LLC  CD Clean Energy and Infrastructure VII JV (InvestCo), LLC  CD Clean Energy and Infrastructure VII JV, LLC		diaries of d	% equity interest  100  100  100  100  100  100  100  1

	<b>6a</b> Describe	the primary energy input: (c	heck one main	category an	d, if applicable,	one subcated	jory)	
	☐ Bioma	ass (specify)	🗷 Ren	ewable resou	urces (specify)	☐ Geoth	ermal	
		Landfill gas		] Hydro pow	ver - river	Fossil	fuel (spec	ify)
		Manure digester gas		] Hydro pow	ver - tidal		Coal (not	waste)
		Municipal solid waste		] Hydro pov	ver - wave		Fuel oil/d	iesel
		Sewage digester gas	×	] Solar - pho	otovoltaic		Natural g	as (not waste)
		Wood		] Solar - thei	rmal	ш	Other fos:	sil fuel
		Other biomass (describe on	page 19)	] Wind			(describe	on page 19)
	☐ Waste	s (specify type below in line (	5b) [		wable resource on page 19)	Other	(describe	on page 19)
	<b>6b</b> If you spe	cified "waste" as the primary	y energy input	in line 6a, ind	dicate the type	of waste fuel	used: (che	ck one)
	☐ Was	te fuel listed in 18 C.F.R. § 29	2.202(b) (spec	ify one of the	e following)			
		] Anthracite culm produced	l prior to July 2	3, 1985				
		Anthracite refuse that has ash content of 45 percent		at content of	f 6,000 Btu or le	ss per pound	and has a	n average
		Bituminous coal refuse that average ash content of 25			ent of 9,500 Btu	ı per pound o	r less and	has an
nput		Top or bottom subbitumii determined to be waste by (BLM) or that is located on the applicant shows that t	y the United St non-Federal c	ates Departr r non-Indian	nent of the Inte lands outside c	rior's Bureau of BLM's juriso	of Land M liction, pro	anagement ovided that
Energy Input	Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by the BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste							
ш		$\Box$ Lignite produced in association with the production of montan wax and lignite that becomes exposed as a result of such a mining operation						
		] Gaseous fuels (except natu	tural gas and synthetic gas from coal) (describe on page 19)					
	Waste natural gas from gas or oil wells (describe on page 19 how the gas meets the requirements of 18 C.F.R. § 2.400 for waste natural gas; include with your filing any materials necessary to demonstrate compliance with 18 C.F.R. § 2.400)							
		] Materials that a governme	nt agency has	certified for o	disposal by com	nbustion (des	cribe on p	age 19)
		] Heat from exothermic read	tions (describ	e on page 19	)	Residual heat	(describe	on page 19)
		Used rubber tires	] Plastic mate	rials	☐ Refinery of	ff-gas	☐ Petro	oleum coke
	☐ facili	er waste energy input that h ity industry (describe in the of commercial value and ex	Miscellaneous	section starti	ing on page 19;	include a dis	cussion of	
	energy in	ne average energy input, calo puts, and provide the related )). For any oil or natural gas i	d percentage o	of the total av	verage annual e	nergy input t		
		Fuel		al average er for specified		Percentage annual energ		
		Natural gas			0 Btu/h		0 %	
		Oil-based fuels			0 Btu/h		0 %	
		Coal			0 Btu/h		0 %	

Indicate the maximum gross and maximum net electric power production capacity of the facility at the point(s) of

delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/lines 7b through 7e are negligible, enter zero for those lines.	• • • •
7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	2,000 <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.	
parasite station power.	4.3 kW
7c Electrical losses in interconnection transformers	25.4 kW
7d Electrical losses in AC/DC conversion equipment, if any	0 <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	0 kW
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	29.7 <b>kW</b>
7g Maximum net power production capacity = 7a - 7f	

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

1,970.3 kW

The facility is a solar photovoltaic array consisting of approximately 8,500 380Wp PV modules (or equivalent) affixed to ground mounted single axis tracking system supported on driven piles. The system will utilize 16 125kW inverters

#### Information Required for Small Power Production Facility

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

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable). 8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest. Certification of Compliance Check here if no such facilities exist. Root docket # Facility location Maximum net power with Size Limitations (if any) (city or county, state) Common owner(s) production capacity 1) kW 2) kW 3) QF kW Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed 8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? Yes (continue at line 8c below) No (skip lines 8c through 8e) 8c Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes No 8d Did construction of the facility commence on or before December 31, 1999? Yes No 8e If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No No If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility. Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal with Fuel Use Requirements Certification of Compliance amounts, for only the following purposes: Ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter. 9a Certification of compliance with 18 C.F.R. § 292,204(b) with respect to uses of fossil fuel: Applicant certifies that the facility will use fossil fuels exclusively for the purposes listed above. 9b Certification 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 11 through 13. Otherwise, skip pages 11 through 13.

	energy (such as heat or use of energy. Pursuant cycle cogeneration facili thermal application or p 292.205(a); or (2) for a boapplication or process for 10a What type(s) of cog Topping-cycle 10b To help demonstra other requirements balance diagram demeet certain requirements	92.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a toppingty, the use of reject heat from a power production process in sufficient amounts in a rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § obtoming-cycle cogeneration facility, the use of at least some reject heat from a thermal or power production.  Jeneration technology does the facility represent? (check all that apply)  Le cogeneration  Bottoming-cycle cogeneration  te the sequential operation of the cogeneration process, and to support compliance with such as the operating and efficiency standards, include with your filing a mass and heat epicting average annual operating conditions. This diagram must include certain items and rements, as described below. You must check next to the description of each requirement at you have complied with these requirements.
	Check to certify compliance with indicated requirement	
ration 1	indicated requirement	Requirement  Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
gene		Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.
General Cogeneration Information		Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.
iene		Diagram must specify average gross electric output in kW or MW for each generator.
O		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/(lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		Diagram must specify working fluid flow conditions at make-up water inputs.

	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, 20057 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
s S	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.
ntal Us acilitie	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?
mel n Fa	Yes (continue at line 11d below)
Act 2005 Requirements for Fundamental Use Energy Output from Cogeneration Facilities	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.
s for oger	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?
ement from C	Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.
Requir utput	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 I y O	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?
t 20 nerg	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.
EPAc of E	No. Applicant certifies that energy will <i>not</i> be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292,205(d) <i>before</i> selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.
	11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?
	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		MWh,
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be		
sold to an electric utility		MWh
11i Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility		
= 100 * 11g /(11g + 11h)	0	%

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

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

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

## Usefulness of Topping-Cycle Thermal Output

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

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

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

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

Average annual rate of

Name of entity (thermal host) taking thermal output

Thermal host's relationship to facility;
Thermal host's use of thermal output

thermal output attributable to use (net of heat contained in process return or make-up water)

	taking thermal output	Thermal host's use of thermal output	return or make-up water)
1)		Select thermal host's relationship to facility	
<u>'</u>		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
2)		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
3)		Select thermal host's use of thermal output	Btu/h
		Select thermal host's relationship to facility	
4)		Select thermal host's use of thermal output	Btu/h
[		Select thermal host's relationship to facility	
5)		Select thermal host's use of thermal output	Btu/h
6	•	Select thermal host's relationship to facility	
6)		Select thermal host's use of thermal output	Btu/h

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

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

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 13I 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.

<b>13a</b> Indicate the annual average rate of useful thermal energy output made availate 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	
The martiply line 198 by 3,112 to convert non-key to bear.	0 Btu/h
13d Indicate the annual average rate of mechanical energy output taken directly	off
of the shaft of a prime mover for purposes not directly related to power productio	n
(this value is usually zero)	hp
13e Multiply line 13d by 2,544 to convert from hp to Btu/h	
13e Munipiy line 13d by 2,344 to convert from up to blu/ii	0.5.4
	0 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)	
	0 %
<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	
Ten Topping cycle chickery value - 100 (old 100 1 100 1 100)	0 %
52 Complemental and the second last and the se	
13i Compliance with operating standard: Is the operating value shown in line 13g	g greater than or equal to 5%r
Yes (complies with operating standard) No (does not comp	ly 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. $\S$ 29 compliance with the efficiency requirement by responding to line 13k or 1	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and	d 13l.
<b>13k</b> Compliance with efficiency standard (for low operating value): If the operatir than 15%, then indicate below whether the efficiency value shown in line 13h greater	
Yes (complies with efficiency standard) No (does not comp	ly with efficiency standard)
<b>13I</b> Compliance with efficiency standard (for high operating value): If the operating greater than or equal to 15%, then indicate below whether the efficiency value show equal to 42.5%:	
Yes (complies with efficiency standard) No (does not comp	y with efficiency standard)

## Information Required for Bottoming-Cycle Cogeneration Facility

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

to the it	ems	on pages 16 and 17. Otherwise, sl	klp pages 16 and 17.			
	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.  Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)		
			Select thermal host's relationship to facility			
	1)		Select thermal host's process type	Yes No		
a)			Select thermal host's process type  Select thermal host's relationship to facility			
-Cycle	2)		Select thermal host's process type	Yes No		
	3)		Select thermal host's relationship to facility	V N		
ing ut			Select thermal host's process type	Yes No		
Usefulness of Bottoming-Cycle Thermal Output			e Miscellaneous section starting on page 19 if addit	ional space is needed		
	ider faci mus add prev faci to ti cha	ntified above. In some cases, this be lity's process is not common, and/ st provide additional details as neo litional information may be require viously received a Commission cer lity, then you need only provide a he order certifying your facility wit	thermal output: At a minimum, provide a brief description is sufficient to demonstrate usefuln for if the usefulness of such thermal output is not reacessary to demonstrate usefulness. Your applicationed if an insufficient showing of usefulness is made. It if it is approving a specific bottoming-cycle procedured description of that process and a reference by the the indicated process. Such exemption may not it is additional space is needed, continue in the National space is needed.	ness. However, if your asonably clear, then you in may be rejected and/or (Exception: If you have cess related to the instant date and docket number be used if any material		

# 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 balan which mass and energy flow values and system components are for which portion of t (topping or bottoming).	ce diagram must make clear
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 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	17.
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
<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)	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	T
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 %
15h Compliance with efficiency standard: Indicate below whether the efficiency value than or equal to 45%:	e shown in line 15g is greater
Yes (complies with efficiency standard) No (does not comply wi	ith efficiency standard)

Commission Staff Use Only:

## Certificate of Completeness, Accuracy and Authority

Applicant must certify compliance with and understanding of filing requirements by checking next to each item below and

signing at the bottom of this section. For rejected by the Secretary of the Commission	orms with incomplete Certificates of Completeness, ssion.	Accuracy and Authority will be
Signer identified below certifies the follo	owing: (check all items and applicable subitems)	
	ling any information contained in any attached docu nd any information contained in the Miscellaneous :	
He or she has provided all of the reconstruction to the best of his or her knowledge	quired information for certification, and the provide and belief.	d information is true as stated,
He or she possess full power and at Practice and Procedure (18 C.F.R. §	uthority to sign the filing; as required by Rule 2005(a 385.2005(a)(3)), he or she is one of the following: (ch	)(3) of the Commission's Rules o neck one)
☐ The person on whose beha	If the filing is made	
An officer of the corporatio	n, trust, association, or other organized group on be	half of which the filing is made
An officer, agent, or employ filing is made	ye of the governmental authority, agency, or instrun	nentality on behalf of which the
	o practice before the Commission under Rule 2101 of C.F.R. § 385.2101) and who possesses authority to si	
He or she has reviewed all automat Miscellaneous section starting on p	ic calculations and agrees with their results, unless c page 19.	otherwise noted in the
interconnect and transact (see lines	nis Form 556 and all attachments to the utilities with is 4a through 4d), as well as to the regulatory authori the Required Notice to Public Utilities and State Ri	ties of the states in which the
Procedure (18 C.F.R. § 385.2005(c)) prov	nature date below. Rule 2005(c) of the Commission' ides that persons filing their documents electronical filed documents. A person filing this document elevided below.	lly may use typed characters
Your Signature	Your address 8800 N. Gainey Center Dr., Suite 250 Scottsdale, AZ 85258	Date
/s/ Joshua Chavez		10/13/2020
Audit Notes		

#### Miscellaneous

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

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

\*Antrim Corp. owns a passive tax equity interest in Thor Solar 1 HoldCo, LLC with limited voting rights to protect its economic investment. AES Creative Resources, LP, 129 FERC ¶ 61,239 (2009); Ad Hoc Renewable Energy Financing Group, 161 FERC ¶ 61,010 (2017). Antrim Corp. is 100% owned indirectly by State Street Bank and Trust Company.

\*\*Capital Dynamics CEI VII-A (HoldCo), LLC owns the remaining 13.5% interest in CD Clean Energy Infrastructure (Joint Holdings), LLC. Capital Dynamics Clean Energy Infrastructure VII-A, L.P. owns 100% of Capital Dynamics CEI VII-A (HoldCo), LLC. CD CEI MM, LLC is the general partner in Capital Dynamics Clean Energy Infrastructure VII-A, L.P.. CD CEI MM, LLC is 100% owned by Capital Dynamics, Inc.

This Facility was certified prior to September 1, 2020 and is exempt from Broadview Solar, 172 FERC  $\P$  61,194.