

## Operations Procedure #42

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### COGENERATION AND COOPERATIVE PURCHASE OF EXCESS MEMBER OWNED GENERATION MORE THAN 10KW AC

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#### I. OBJECTIVE

To encourage member investment in renewable energy resources, comply with the Public Utility Regulatory Policies Act (PURPA), enhance the continued diversification of Illinois' energy resource mix and protect the Illinois environment through the use of renewable fuel sources while honoring the Cooperative's obligation to provide safe and reliable electricity to all members on a Cooperative basis as required by the Illinois Not-for-Profit Act and Revenue Code Section 501(c)(12).

#### II. DEFINITIONS

**Avoided Costs** means the incremental costs to the Cooperative of electric energy or capacity or both which, but for the purchase from the eligible renewable electrical facility, the Cooperative would generate itself or purchase from another source.

**Avoided Energy Costs** are the avoided variable costs associated with the production of electric energy (kilowatt-hours). These costs represent the avoided costs of fuel and some operating and maintenance expenses or the cost of purchased energy. Identifiable capacity charges included in purchase power agreements shall not be included in the calculation of avoided energy costs.

**Avoided Total Costs** means the total avoided system energy and new capacity costs (and not the average embedded system cost of capacity) or the avoided cost of a capacity purchase which result from the purchase of energy and capacity from an eligible renewable electrical generating facility.

**Capacity Costs** are the costs associated with providing the capability to deliver energy. They consist primarily of the capital costs of facilities used to generate and transmit electricity.

**Eligible Renewable Electrical Generating Facility (EREGF)** means a generator powered by solar electric energy, wind, dedicated crops grown for electricity generation, anaerobic digestion of livestock or food processing waste, fuel cells or microturbines powered by renewable fuels, or hydroelectric energy.

**Cogeneration Billing** is the process of calculating the monthly power bill with the difference in the dollar value of the forward energy used by the member less the dollar value of the reverse energy received onto the Cooperative's distribution system. The dollar value of the forward energy used by the member is calculated by multiplying the forward kilowatt hour register value on the co-generation meter by the member's rate class kilowatt hour cost. The dollar value of the reverse energy received is calculated by multiplying the reverse kilowatt hour register value on the co-generation meter by the Cooperative's avoided energy cost. In the event the member's reverse energy dollar value is greater than the forward energy dollar value the credit will be applied to future forward energy costs.

### III. APPLICABILITY

This policy applies to eligible Cooperative members that choose to interconnect their eligible renewable electrical generating facilities with the Cooperative's distribution system and operate it in parallel with the Cooperative system. Members wanting to install a system greater than 10KW AC shall follow this Operations Procedure #42. Any member wishing to install a system less than 10KW AC shall follow the Cooperative Operations Procedure #43.

### IV. PROVISIONS

- A. The eligible Cooperative member shall first comply with the provisions of this policy, Cogeneration and Cooperative Purchase of Excess Member Owned Generation More Than 10KW AC.
- B. The Cooperative will install and maintain metering equipment capable of measuring the flow of electricity both into and out of the member's facility. If member's existing meter is not capable of meeting this requirement, or if the member requests an additional meter, the cost of installing and maintaining an additional meter shall be paid by the member.
- C. For EREGFs the Cooperative shall measure and charge or credit according to the Definition of Cogeneration Billing listed above. At the beginning of the calendar year commencing on January 1 and ending on December 31, any credits due to the member from the co-generation shall be paid to the member.
- D. All renewable energy credits, greenhouse gas emission credits and renewable energy attributes related to any electricity produced by the eligible renewable electrical generating facility and purchased by the Cooperative shall be treated as owned by the eligible member.
- E. This policy is subject to all federal, state and local laws, the Cooperative's articles of incorporation, bylaws and existing policies and the terms and conditions of the

Cooperative's existing power supply contracts and loan agreements. To the extent any provision of this policy conflicts with those obligations, those provisions are deemed null and void.

- F. This policy is subject to change at any time upon determination of the Board of Directors of Norris Electric Cooperative.
- G. The Manager shall be empowered and is directed to implement internal rules and procedures for the implantation of this policy, including but not limited to application, system impact, and timing procedures.



## **Member and Norris Electric Cooperative Application for: Generator Interconnection Policy (GIP) #42**

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DATE OF APPLICATION: \_\_\_\_\_

Norris Electric Cooperative, hereinafter "Cooperative"  
8543 N St Hwy 130  
Newton, IL 62448

(Print Name of Cooperative Account) hereinafter "IM"

Cooperative Account#: \_\_\_\_\_

The Cooperative is a member-owned organization, and as such, our responsibility is to serve the needs of our membership. This includes developing programs, within the guidelines set forth in our Policies, for members that are interested in offsetting some of their electric use with a cogeneration energy system. The main documents that guide our Cogeneration Interconnection Program include Operations Procedures #42 and #43.

As a member of the Cooperative, I/we are authorized to sign for the point of service located at:

I can attest and affirm that I/we are the owner(s) of the distributed energy resource equipment described in my application for cogeneration.

I/we have not entered into any agreement to purchase electrical energy from any other source or lease cogeneration equipment from any person or entity, and I/we acknowledge that subject to the Cooperative bylaws and policies regarding membership and interconnection. I/we cannot enter into any such agreement because of our contractual relationship with the Cooperative.

### **I. GIP Application Process:**

- A. Interconnection Member ("IM") submits Interconnection Request Application ("Application") on this form and the non-refundable **\$300.00** application fee along with your solar purchase agreement/contract. IM's will not

- be required by law to file FERC Form 556 with FERC, but must submit a completed FERC Form 556 to Norris as part of the Application process.
- B. Norris should strive to acknowledge receipt of Application within a reasonable time period.
  - C. Norris should strive to determine validity of Application (and informs IM of missing information) within a reasonable time period.
  - D. IM must submit missing information within 10 business days after notification from Norris of missing information.

**II. System Impact Study (“SIS”):**

- A. IM and Norris will hold a Scoping Meeting after receipt of valid application.
- B. If the IM does not provide the executed Interconnection Agreement within 60 days, the application is invalidated.
- C. Once the Interconnect Agreement is executed by the IM and Norris, the IM and Norris will execute a System Impact Study (“SIS”) following the Scoping Meeting.
- D. IM must submit the study cost listed in the table below, proof of total site control, ownership of system, and technical data to the Cooperative within 30 calendar days of the date of execution of the IM agreement.
- E. A third party engineering firm will conduct the SIS as set forth within this policy (including the coordination with Ameren affected systems) using reasonable efforts to complete the SIS within 180 calendar days of receipt of necessary estimated costs and technical data from the IM (SIS may take longer if circumstances dictate); and, if necessary, restudies upon the receipt of any changes in data requiring restudy, in which the IM will pay any additional costs.
- F. Norris will meet with the IM after Norris receives the results of the SIS to discuss the same with the IM.
- G. IM shall notify Norris within 30 business days after the SIS report whether the IM would like Norris to proceed with obtaining a cost and timeframe estimate for any required system improvements. If an additional study with Ameren is required, the estimated costs will need to be paid first by the IM to proceed. If Norris is not notified within 30 days, the Application will be deemed void.

**III. Interconnection Agreement – Execution of Interconnection Agreement. Project material procurement, remaining engineering, and construction.**

- A. Norris will draft the estimated construction costs required to proceed following the report of the SIS.
- B. Norris will return copies of the signed Interconnection Agreement, the SIS, and the estimated construction costs to the IM.
- C. Norris will determine construction schedule and inform the IM after the SIS is completed. IM may request an expedited construction schedule if the IM submits the estimated costs associated with the expedited scheduling. Work pursuant to the construction schedule, expedited or otherwise, shall not begin until the cost of the estimated construction expense is submitted to Norris.
- D. Following completed construction, a true-up between the estimated costs and the actual costs will be performed and the IM will be refunded any excess or invoices shortfall. Any shortfall must be paid within 30 calendar days of Interconnection. Interconnection facilities will be scheduled for inspections and energized after receipt of final true-up payment.
- E. The entire process, from initial application submittal to executed agreement and subsequent construction is expected to take 18 to 20 months to complete. The process could take longer, should the transmission provider determine that restudies are necessary. Under a best-case scenario, the process would be completed in 12 to 14 months.
- F. If Norris or Ameren's sub-transmission facilities are impacted by the interconnection, a four-party agreement will need to be executed with MISO, Norris, Ameren, and the IM. Additional studies and costs may be required and will be paid by the IM.

### **Application Fee Summary**

<u>At submission of Interconnection Request for Project greater than 10 kW and less than 1000kW</u>	<u>Application Fee of \$300</u>  <u>Copy of Solar Purchase Agreement/Contract</u>  <u>Estimate of \$5000 for Engineering Study by a Third-party Engineering Firm</u>
<u>At submission of Interconnection Request for Project greater than 1000 kW</u>	<u>Application Fee of \$300</u>  <u>Copy of Solar Purchase Agreement/Contract</u>  <u>Estimate to be determined for Engineering Study by a Third-party Engineering Firm</u>  <u>Ameren study – engineering costs to be determined by Ameren</u>  <u>Potential Four-Party Agreement – Additional Costs to be determined by study</u>

**IN WITNESS WHEREOF**, the Parties have caused this Application to be signed by their duly authorized representatives.

NORRIS ELECTRIC COOPERATIVE, INC.

MEMBER

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Manager

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Name



# 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](mailto: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](http://www.ferc.gov/QF). The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

### Who Must File

Any applicant seeking QF status or recertification of QF status for a generating facility with a net power production capacity (as determined in lines 7a through 7g below) greater than 1000 kW must file a self-certification or an application for Commission certification of QF status, which includes a properly completed Form 556. Any applicant seeking QF status for a generating facility with a net power production capacity 1000 kW or less is exempt from the certification requirement, and is therefore not required to complete or file a Form 556. See 18 C.F.R. § 292.203.

### How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button ( ) for assistance, or contact Commission staff at [Form556@ferc.gov](mailto: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](mailto: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. A 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](mailto: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](mailto:oira_submission@omb.eop.gov)). Include the Control No. 1902-0075 in any correspondence.

## Electronic Filing (eFiling)

To electronically file your Form 556, visit the Commission's QF website at [www.ferc.gov/QF](http://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 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
Electric	(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.
	Self-Recertification of Qualifying Facility (QF)	Use to submit a notice of self-recertification of your facility (cogeneration or small power production) as a QF.
	Supplemental Information or Request	Use to correct or supplement a Form 556 that was submitted with errors or omissions, or for which Commission staff has requested additional information. Do not use this filing type to report new changes to a facility or its ownership; rather, use a self-recertification or Commission recertification to report such changes.
General	(Fee) Petition for Declaratory Order (not under FPA Part 1)	Use to submit a petition for declaratory order granting a waiver of Commission QF regulations pursuant to 18 C.F.R. §§ 292.204(a)(3) and/or 292.205(c). A Form 556 is not required for a petition for declaratory order unless Commission recertification is being requested as part of the petition.

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

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

## Filing Fee

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

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

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

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

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

## Required Notice to Utilities and State Regulatory Authorities

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

## What to Expect From the Commission After You File

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

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

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

## Waiver Requests

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

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

## Geographic Coordinates

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

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

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

If you are seeking privileged treatment or CEII status for any data in your Form 556, then you must follow the procedures in 18 C.F.R. § 388.112. See [www.ferc.gov/help/filing-guide/file-ceii.asp](http://www.ferc.gov/help/filing-guide/file-ceii.asp) for more information.

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

**Non-Public:** Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This non-public version of the applicant's Form 556 contains all data, including the data that is redacted in the (separate) public version of the applicant's Form 556.

**Public(redacted):** Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines indicated below. This public version of the applicant'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 [www.ferc.gov/QF](http://www.ferc.gov/QF). To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above all fields which contain data for which you are seeking non-public status.

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

FEDERAL ENERGY REGULATORY COMMISSION  
WASHINGTON, DC

OMB Control#1902-0075  
Expiration 11/30/2020

# 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)		
1b Applicant street address		
1c City	1d State/province	
1e Postal code	1f Country (if not United States)	1g Telephone number
1h Has the instant facility ever previously been certified as a QF? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
1i If yes, provide the docket number of the last known QF filing pertaining to this facility: QF - - -		
1j Under which certification process is the applicant making this filing?		
<input type="checkbox"/> Notice of self-certification (see note below)	<input type="checkbox"/> Application for Commission certification (requires filing fee; see "Filing Fee" section on page 3)	
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.		
1k What type(s) of QF status is the applicant seeking for its facility? (check all that apply)		
Qualifying small power production facility status      Qualifying cogeneration facility status		
1l What is the purpose and expected effective date(s) of this filing?		
<input type="checkbox"/> Original certification; facility expected to be installed by _____ and to begin operation on _____		
Change(s) to a previously certified facility to be effective on _____ <input type="checkbox"/> (identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 19)		
<input type="checkbox"/> Name change and/or other administrative change(s)		
<input type="checkbox"/> Change in ownership		
<input type="checkbox"/> 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 _____ (specify any other relevant waiver order) _____ <input type="checkbox"/> (identify the order 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 <input type="checkbox"/>		
The instant facility complies with the Commission's regulations, but has special circumstances, such as the employment of unique or innovative technologies not contemplated by the structure of this form, that make the demonstration of compliance via this form difficult or impossible (describe in Misc. section starting on p. 19) <input type="checkbox"/>		

Contact Information	2a Name of contact person		2b Telephone number		
	2c Which of the following describes the contact person's relationship to the applicant? (check one)				
	<input type="checkbox"/> Applicant (self) <input type="checkbox"/> Employee, owner or partner of applicant authorized to represent the applicant <input type="checkbox"/> Employee of a company affiliated with the applicant authorized to represent the applicant on this matter <input type="checkbox"/> Lawyer, consultant, or other representative authorized to represent the applicant on this matter				
	2d Company or organization name (if applicant is an individual, check here and skip to line 2e)				
	2e Street address (if same as Applicant, check here and skip to line 3a) 				
	2f City		2g State/province		
	2h Postal code	2i Country (if not United States)			
3a Facility name					
3b Street address (if a street address does not exist for the facility, check here and skip to line 3c) 					
<p>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.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">         Longitude <input type="checkbox"/> East (+)  <input type="checkbox"/> West (-) _____ degrees       </td> <td style="width: 50%;">         Latitude <input type="checkbox"/> North (+)  <input type="checkbox"/> South (-) _____ degrees       </td> </tr> </table>				Longitude <input type="checkbox"/> East (+) <input type="checkbox"/> West (-) _____ degrees	Latitude <input type="checkbox"/> North (+) <input type="checkbox"/> South (-) _____ degrees
Longitude <input type="checkbox"/> East (+) <input type="checkbox"/> West (-) _____ degrees	Latitude <input type="checkbox"/> North (+) <input type="checkbox"/> South (-) _____ degrees				
3d City (if unincorporated, check here and enter nearest city) 		3e State/province			
3f County (or check here for independent city) 		3g Country (if not United States)			
Identify the electric utilities that are contemplated to transact with the facility.					
4a Identify utility interconnecting with the facility					
4b Identify utilities providing wheeling service or check here if none 					
4c Identify utilities purchasing the useful electric power output or check here if none 					
4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none 					

<b>Ownership and Operation</b>	<p><b>5a</b> Direct ownership as of effective date or operation date: Identify all direct owners of the facility holding at least 10 percent equity interest. For each identified owner, also (1) indicate whether that owner is an electric utility, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) for owners which are electric utilities or holding companies, provide the percentage of equity interest in the facility held by that owner. If no direct owners hold at least 10 percent equity interest in the facility, then provide the required information for the two direct owners with the largest equity interest in the facility.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-bottom: 5px;">Full legal names of direct owners</th> <th style="text-align: center; padding-bottom: 5px;">Electric utility or holding company</th> <th style="text-align: center; padding-bottom: 5px;">If Yes, % equity interest</th> </tr> </thead> <tbody> <tr><td>1) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>2) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>3) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>4) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>5) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>6) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>7) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>8) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>9) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> <tr><td>10) _____</td><td style="text-align: center;">Yes <input type="checkbox"/></td><td style="text-align: center;">No <input type="checkbox"/> _____ %</td></tr> </tbody> </table>			Full legal names of direct owners	Electric utility or holding company	If Yes, % equity interest	1) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	2) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	3) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	4) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	5) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	6) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	7) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	8) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	9) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %	10) _____	Yes <input type="checkbox"/>	No <input type="checkbox"/> _____ %
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<p><b>5b</b> Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all upstream (i.e., indirect) owners of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) are electric utilities, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding companies, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also provide the percentage of equity interest in the facility held by such owners. (Note that, because upstream owners may be subsidiaries of one another, total percent equity interest reported may exceed 100 percent.)</p>																																				
Check here if no such upstream owners exist <input type="checkbox"/> <span style="float: right; color: blue; font-size: small;">i</span>																																				
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<p><b>5c</b> Identify the facility operator</p>																																				

<b>Energy Input</b>	<b>6a</b> Describe the primary energy input: (check one main category and, if applicable, one subcategory)		
	<input type="checkbox"/> Biomass (specify) <ul style="list-style-type: none"> <li><input type="checkbox"/> Landfill gas</li> <li><input type="checkbox"/> Manure digester gas</li> <li><input type="checkbox"/> Municipal solid waste</li> <li><input type="checkbox"/> Sewage digester gas</li> <li><input type="checkbox"/> Wood</li> <li><input type="checkbox"/> Other biomass (describe on page 19)</li> </ul>	<input type="checkbox"/> Renewable resources (specify) <ul style="list-style-type: none"> <li><input type="checkbox"/> Hydro power- river</li> <li><input type="checkbox"/> Hydro power- tidal</li> <li><input type="checkbox"/> Hydro power - wave</li> <li><input type="checkbox"/> Solar - photovoltaic</li> <li><input type="checkbox"/> Solar - thermal</li> <li><input type="checkbox"/> Wind</li> <li><input type="checkbox"/> Other renewable resource</li> </ul>	<input type="checkbox"/> Geothermal <ul style="list-style-type: none"> <li><input type="checkbox"/> Fossil fuel(specify)               <ul style="list-style-type: none"> <li><input type="checkbox"/> Coal (not waste)</li> <li><input type="checkbox"/> Fuel oil/diesel</li> <li><input type="checkbox"/> Natural gas (not waste)</li> <li><input type="checkbox"/> Other fossil fuel (describe on page 19)</li> </ul> </li> <li><input type="checkbox"/> Other (describe on page 19)</li> </ul>
	<input type="checkbox"/> Waste (specify type below in line 6b) <input type="checkbox"/> (describe on page 19)		
	<b>6b</b> If you specified "waste" as the primary energy input in line 6a, indicate the type of waste fuel used: (check one)		
	<input type="checkbox"/> Waste fuel listed in 18 C.F.R. § 292.202(b) (specify one of the following) <ul style="list-style-type: none"> <li><input type="checkbox"/> Anthracite culm produced prior to July 23, 1985</li> <li><input type="checkbox"/> Anthracite refuse that has an average heat content of 6,000 Btu or less per pound and has an average ash content of 45 percent or more</li> <li><input type="checkbox"/> Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more</li> <li><input type="checkbox"/> Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Management (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that the applicant shows that the latter coal is an extension of that determined by BLM to be waste</li> <li><input type="checkbox"/> 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 the applicant shows that the latter is an extension of that determined by BLM to be waste</li> <li><input type="checkbox"/> Lignite produced in association with the production of montan wax and lignite that becomes exposed as a result of such a mining operation</li> <li><input type="checkbox"/> Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)</li> <li><input type="checkbox"/> 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)</li> <li><input type="checkbox"/> Materials that a government agency has certified for disposal by combustion (describe on page 19)</li> <li><input type="checkbox"/> Heat from exothermic reactions (describe on page 19) <input type="checkbox"/> Residual heat (describe on page 19)</li> <li><input type="checkbox"/> Used rubber tires <input type="checkbox"/> Plastic materials <input type="checkbox"/> Refinery off-gas <input type="checkbox"/> Petroleum coke</li> </ul>		
<input type="checkbox"/> Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)			
<b>6c</b> Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).			
Fuel	Annual average energy input for specified fuel	Percentage of total annual energy input	
Natural gas	Btu/h	%	
Oil-based fuels	Btu/h	%	
Coal	Btu/h	%	

<b>Technical Facility Information</b>	<p>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.</p>	
	7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	kW
	7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	kW
	7c Electrical losses in interconnection transformers	kW
	7d Electrical losses in AC/DC conversion equipment, if any	kW
	7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	kW
	7f Total deductions from gross power production capacity = 7a + 7b + 7c + 7d + 7e	0 kW
	7g Maximum net power production capacity = 7a - 7f	0 kW
<p><b>7h Description of facility and primary components:</b> 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.</p>		



## 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.

<b>Certification of Compliance with Size Limitations</b>	<p>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).</p>			
	<p><b>8a</b> 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.</p>			
	<p>Check here if no such facilities exist. <input type="checkbox"/></p>			
	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity
	1) _____	QF _____ - _____	_____	kW
	2) _____	QF _____ - _____	_____	kW
	3) _____	QF _____ - _____	_____	kW
	<p><input type="checkbox"/> Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed</p>			
	<p><b>8b</b> 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 recertified 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?</p>			
<p><input type="checkbox"/> Yes (continue at line 8c below)</p>		<p><input type="checkbox"/> No (skip lines 8c through 8e)</p>		
<p><b>8c</b> Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes <input type="checkbox"/> No <input type="checkbox"/></p>				
<p><b>8d</b> Did construction of the facility commence on or before December 31, 1999? Yes <input type="checkbox"/> No <input type="checkbox"/></p>				
<p><b>8e</b> 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 <input type="checkbox"/> No <input type="checkbox"/> 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.</p>				
<b>Certification of Compliance with Fuel Use Requirements</b>	<p>Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.</p>			
	<p><b>9a</b> Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:</p>			
	<p><input type="checkbox"/> Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed above.</p>			
<p><b>9b</b> Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:</p>				
<p style="padding-left: 20px;">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.</p>				

## 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.

<b>General Cogeneration Information</b>	<p>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.</p>	
	<p><b>10a</b> What type(s) of cogeneration technology does the facility represent? (check all that apply)</p>	
	<input type="checkbox"/> Topping-cycle cogeneration	<input type="checkbox"/> Bottoming-cycle cogeneration
	<p><b>10b</b> 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 balanced 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.</p>	
	Check to certify compliance with indicated requirement	Requirement
	<input type="checkbox"/>	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.
	<input type="checkbox"/>	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.
	<input type="checkbox"/>	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.
	<input type="checkbox"/>	Diagram must specify average gross electric output in kW or MW for each generator.
	<input type="checkbox"/>	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.
	<input type="checkbox"/>	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 19, only mass flowrate 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).
	<input type="checkbox"/>	Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
	<input type="checkbox"/>	Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
<input type="checkbox"/>	Diagram must specify working fluid flow conditions at make-up water inputs.	

**EPAct 2005 Requirements for Fundamental Use  
of Energy Output from Cogeneration Facilities**

<p>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.</p>	
<p><b>11a</b> Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes <input type="checkbox"/> No <input type="checkbox"/></p>	
<p><b>11b</b> 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 <input type="checkbox"/> No <input type="checkbox"/></p>	
<p>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.</p>	
<p><b>11c</b> 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?</p> <p><input type="checkbox"/> Yes (continue at line 11d below)</p> <p>No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be <input type="checkbox"/> subject 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.</p>	
<p><b>11d</b> 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?</p> <p><input type="checkbox"/> Yes. Provide in the Miscellaneous section starting on page 19a 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.</p> <p><input type="checkbox"/> 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.</p>	
<p><b>11e</b> Will electric energy from the facility be sold pursuant to section 210 of PURPA?</p> <p><input type="checkbox"/> 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.</p> <p><input type="checkbox"/> 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) before selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.</p>	
<p><b>11f</b> Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?</p> <p><input type="checkbox"/> 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.</p> <p><input type="checkbox"/> 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.</p>	

**EPAct 2005 Requirements for Cogeneration Facilities (continued)**

**of Energy Output from Cogeneration Facilities (continued)**

<p>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. 18C.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.</p> <p>18C.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.</p> <p>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 18C.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.</p> <p>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.</p> <p>Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18C.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).</p>	
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?	
<p>Yes. Your facility complies with 18C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18C.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 18C.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.</p> <p>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 18C.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 <a href="http://www.ferc.gov/QF">www.ferc.gov/QF</a>), 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.</p>	





## 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.

<p>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 (18C.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.</p>			
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 <i>in separate rows</i> .		Average annual rate of thermal output attributable to use (net of heat contained in process return or make-up water)	
	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	
1)		Select thermal host's relationship to facility Select thermal host's use of thermal output	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 Select thermal host's use of thermal output	Btu/h
4)		Select thermal host's relationship to facility Select thermal host's use of thermal output	Btu/h
5)		Select thermal host's relationship to facility 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
<input type="checkbox"/> Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed			
<p>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.</p>			

## Topping-Cycle Operating and Efficiency Value Calculation

<p>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.</p> <p>If you indicated in line 10a that your facility represents <i>both</i> 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.</p>																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">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</td> <td style="width: 20%; text-align: right;">Btu/h</td> </tr> <tr> <td>13b Indicate the annual average rate of net electrical energy output</td> <td style="text-align: right;">kW</td> </tr> <tr> <td>13c Multiply line 13b by 3,412 to convert from kW to Btu/h</td> <td style="text-align: right;">0 Btu/h</td> </tr> <tr> <td>13d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)</td> <td style="text-align: right;">hp</td> </tr> <tr> <td>13e Multiply line 13d by 2,544 to convert from hp to Btu/h</td> <td style="text-align: right;">0 Btu/h</td> </tr> <tr> <td>13f Indicate the annual average rate of energy input from natural gas and oil</td> <td style="text-align: right;">Btu/h</td> </tr> <tr> <td>13g Topping-cycle operating value = <math>100 * 13a / (13a + 13c + 13e)</math></td> <td style="text-align: right;">0 %</td> </tr> <tr> <td>13h Topping-cycle efficiency value = <math>100 * (0.5 * 13a + 13c + 13e) / 13f</math></td> <td style="text-align: right;">0 %</td> </tr> <tr> <td colspan="2"> <b>13i Compliance with operating standard:</b> Is the operating value shown in line 13g greater than or equal to 5%?           </td> </tr> <tr> <td style="text-align: center;"> <input type="checkbox"/> Yes (complies with operating standard)         </td> <td style="text-align: center;"> <input type="checkbox"/> No (does not comply with operating standard)         </td> </tr> <tr> <td colspan="2"> <b>13j Did installation of the facility in its current form commence on or after March 13, 1980?</b> </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> 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.         </td> </tr> <tr> <td colspan="2"> <input type="checkbox"/> No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.         </td> </tr> <tr> <td colspan="2"> <b>13k Compliance with efficiency standard (for low operating value):</b> If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h is greater than or equal to 45%:         </td> </tr> <tr> <td style="text-align: center;"> <input type="checkbox"/> Yes (complies with efficiency standard)         </td> <td style="text-align: center;"> <input type="checkbox"/> No (does not comply with efficiency standard)         </td> </tr> <tr> <td colspan="2"> <b>13l Compliance with efficiency standard (for high operating value):</b> 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%:         </td> </tr> <tr> <td style="text-align: center;"> <input type="checkbox"/> Yes (complies with efficiency standard)         </td> <td style="text-align: center;"> <input type="checkbox"/> No (does not comply with efficiency standard)         </td> </tr> </table>		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	0 Btu/h	13d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)	hp	13e Multiply line 13d by 2,544 to convert from hp to Btu/h	0 Btu/h	13f Indicate the annual average rate of energy input from natural gas and oil	Btu/h	13g Topping-cycle operating value = $100 * 13a / (13a + 13c + 13e)$	0 %	13h Topping-cycle efficiency value = $100 * (0.5 * 13a + 13c + 13e) / 13f$	0 %	<b>13i Compliance with operating standard:</b> Is the operating value shown in line 13g greater than or equal to 5%?		<input type="checkbox"/> Yes (complies with operating standard)	<input type="checkbox"/> No (does not comply with operating standard)	<b>13j Did installation of the facility in its current form commence on or after March 13, 1980?</b>		<input type="checkbox"/> 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.		<input type="checkbox"/> No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.		<b>13k Compliance with efficiency standard (for low operating value):</b> If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h is greater than or equal to 45%:		<input type="checkbox"/> Yes (complies with efficiency standard)	<input type="checkbox"/> No (does not comply with efficiency standard)	<b>13l Compliance with efficiency standard (for high operating value):</b> 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%:		<input type="checkbox"/> Yes (complies with efficiency standard)	<input type="checkbox"/> No (does not comply with efficiency standard)
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13f Indicate the annual average rate of energy input from natural gas and oil	Btu/h																																		
13g Topping-cycle operating value = $100 * 13a / (13a + 13c + 13e)$	0 %																																		
13h Topping-cycle efficiency value = $100 * (0.5 * 13a + 13c + 13e) / 13f$	0 %																																		
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<input type="checkbox"/> Yes (complies with efficiency standard)	<input type="checkbox"/> No (does not comply 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.

Usefulness of Bottoming-Cycle Thermal Output	<p>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 (18C.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.</p>			
	<p><b>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 <i>in separate rows</i>.</b></p>			
	<p>Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production</p>		<p>Thermal host's relationship to facility; Thermal host's process type</p>	<p>Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (If Yes, describe on page 19)</p>
	1)		Select thermal host's relationship to facility	Yes <input type="checkbox"/> No <input type="checkbox"/>
			Select thermal host's process type	
	2)		Select thermal host's relationship to facility	Yes <input type="checkbox"/> No <input type="checkbox"/>
			Select thermal host's process type	
	3)		Select thermal host's relationship to facility	Yes <input type="checkbox"/> No <input type="checkbox"/>
			Select thermal host's process type	
		<p><input type="checkbox"/> Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed</p>		
	<p><b>14b Demonstration of usefulness of thermal output:</b> 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 19.</p>			

<b>Bottoming-Cycle Operating and Efficiency Value Calculation</b>	<p>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.</p> <p>If you indicated in line 10a that your facility represents <i>both</i> 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 heatbalance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).</p>	
	<p><b>15a</b> Did installation of the facility in its current form commence on or after March 13, 1980?</p> <p><input type="checkbox"/> 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.</p> <p><input type="checkbox"/> No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.</p>	
	<b>15b</b> Indicate the annual average rate of net electrical energy output	kW
	<b>15c</b> 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
	<b>15e</b> Multiply line 15d by 2,544 to convert from hp to Btu/h	0 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 %
<p><b>15h</b> Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater than or equal to 45%:</p> <p><input type="checkbox"/> Yes (complies with efficiency standard)      <input type="checkbox"/> No (does not comply with efficiency standard)</p>		



## Certificate of Completeness, Accuracy and Authority

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

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

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

- mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

- He or she has provided all of the required information for certification, and the provided information is true as stated, to the best of his or her knowledge and belief.

- He or she possesses full power and authority to sign the filing; as required by Rule 2005(a)(3) of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2005(a)(3)), he or she is one of the following: (check one)

- The person on whose behalf the filing is made

- An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made

- An officer, agent, or employee of the governmental authority, agency, or instrumentality on behalf of which the filing is made

- A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign

- He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will

- interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

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

Your Signature

Your address

Date

Audit Notes

Commission Staff Use Only:



## 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.

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