#### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

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

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

# General

Questions about completing this form should be sent to <u>Form556@ferc.gov</u>. 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, <u>www.ferc.gov/QF</u>. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

# Who Must File

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

# How to Complete the Form 556

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

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at <u>Form556@ferc.gov</u> 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 (<u>DataClearance@ferc.gov</u>); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (<u>oira\_submission@omb.eop.gov</u>). Include the Control No. 1902-0075 in any correspondence.



# **Electronic Filing (eFiling)**

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

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

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

Filing category	Filing Type as listed in eFiling	Description
	(Fee) Application for Commission Cert. as Cogeneration QF	Use to submit an application for Commission certification or Commission recertification of a cogeneration facility as a QF.
	(Fee) Application for Commission Cert. as Small Power QF	Use to submit an application for Commission certification or Commission recertification of a small power production facility as a QF.
	Self-Certification Notice (QF, EG, FC)	Use to submit a notice of self- certification of your facility (cogeneration or small power production) as a QF.
Electric	Self-Recertification of Qualifying Facility (QF)	Use to submit a notice of self- recertification of your facility (cogeneration or small power production) as a QF.
	Supplemental Information or Request	Use to correct or supplement a Form 556 that was submitted with errors or omissions, or for which Commission staff has requested additional information. Do <i>not</i> 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 <u>www.ferc.gov/QF</u> 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="http://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.

#### **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 <u>www.ferc.gov/QF</u> 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 <u>http://earth.google.com</u>), 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 <u>www.ferc.gov/help/filing-guide/file-ceii.asp</u> 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 <u>except</u> 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 <u>www.ferc.gov/QF</u>. 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 <u>all</u> 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

Form	556	Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility
1a Full name of a	pplicant (legal	entity on whose behalf qualifying facility status is sought for this facility)

1c City		1d State/prov	ince
Pipestone		MN	
<b>1e</b> Postal code 56164	<b>1f</b> Country (if not United States)		<b>1g</b> Telephone number 5075628090
1h Has the instant facilit	y ever previously been certified as a Q	F? Yes 🗌 N	No 🔀
1i If yes, provide the doo	ket number of the last known QF filin	g pertaining to t	his facility: QF
1j Under which certifica	tion process is the applicant making th	nis filing?	
Notice of self-certif (see note below)	ication A	pplication for Co ee; see "Filing Fee	ommission certification (requires filing e" section on page 3)
QF status. A notice of	of self-certification does not establish a ation to verify compliance. See the "W	a proceeding, an	
1k What type(s) of QF st	atus is the applicant seeking for its fac	ility? (check all th	nat apply)
Qualifying small po	wer production facility status	ualifying cogene	eration facility status
	nd expected effective date(s) of this fi	÷	
🛛 Original certificatio	n; facility expected to be installed by	<u>11/30/16</u> a	nd to begin operation on <u>12/31/16</u>
-	viously certified facility to be effective of		lance us settion starting on page 10)
	change(s) below, and describe change	e(s) in the Miscer	ianeous section starting on page 19)
Change in own	nd/or other administrative change(s)		
		production capa	acity and/or cogeneration thermal output
	ection to a previous filing submitted o		
	ement or correction in the Miscellaned	·····	ng on page 19)
-	g three statements is true, check the b e, explaining any special circumstance		ribe your situation and complete the for neous 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			
	y would comply with the Commission' this application is granted	's QF requiremen	its if a petition for waiver submitted
employment of u	y complies with the Commission's reg nique or innovative technologies not n of compliance via this form difficult	contemplated by	

	2a Name of contact person		<b>2b</b> Telephone number	
	Corey Juhl		5078200670	
Contact Information	Employee of a company affilia	ployee, owner or partner of a ated with the applicant auth epresentative authorized to	pplicant authorized to represent the applicant orized to represent the applicant on this matter represent the applicant on this matter	
Jfo	Juhl Energy, Inc.	- ( -	,	
ontact li	<b>2e</b> Street address (if same as Applic	cant, check here and skip to	line 3a) 🔀	
Ŭ	2f City		2g State/province	
	2h Postal code	<b>2i</b> Country (if not United S	States)	
uo	<b>3a</b> Facility name Davison County Wind, LL			
d Locat	<b>3b</b> Street address (if a street addres	ss does not exist for the facil	ity, check here and skip to line 3c) 🔀	
on an			ress exists for your facility by checking the box in line are of the facility in degrees (to three decimal places).	
ificati	the following formula to conver degrees + (minutes/60) + (secon provided a street address for yo	rt to decimal degrees from d nds/3600). See the "Geogra	egrees, minutes and seconds: decimal degrees = aphic Coordinates" section on page 4 for help. If you ecifying the geographic coordinates below is optional	
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FERC Form 556

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	Full legal names of direct owners	holo com	ding	% equ inter
1) Juhl	Energy, Inc.	Yes 🗌	No 🛛	
2)		Yes 🗌	No 🗌	
3)		Yes 🗌	No 🗌	
4)		Yes 🗌	No 🗌	
5)		Yes 🗌	No 🗌	
6)		Yes 🗌	No 🗌	
7)		Yes 🗌	No 🗌	
8)		Yes 🗌	No 🗌	
9)		Yes 🗌	No 🗌	
10)		Yes 🗌	No 🗌	
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<b>5b</b> Upstrea of the fa defined 1262(8) equity in another Check he 1) 2) 3)	im (i.e., indirect) ownership as of effective date or operation date: Identify acility that both (1) hold at least 10 percent equity interest in the facility, a in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding c of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). A nterest in the facility held by such owners. (Note that, because upstream r, total percent equity interest reported may exceed 100 percent.) ere if no such upstream owners exist.	y all upstream ( and (2) are elect ompanies, as d Iso provide the owners may be	i.e., indire tric utilitie efined in s percenta	ct) owr s, as section ge of ries of % equ
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Sb         Upstrea           of the fa         defined           1262(8)         equity in           another         Check he           1)	im (i.e., indirect) ownership as of effective date or operation date: Identify acility that both (1) hold at least 10 percent equity interest in the facility, a in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding c of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). A nterest in the facility held by such owners. (Note that, because upstream r, total percent equity interest reported may exceed 100 percent.) ere if no such upstream owners exist.	y all upstream ( and (2) are elect ompanies, as d Iso provide the owners may be	i.e., indire tric utilitie efined in s percenta	ct) owr s, as section ige of
<b>5b</b> Upstrea           of the fa         defined           1262(8)         equity in           another         Check he           1)	im (i.e., indirect) ownership as of effective date or operation date: Identify acility that both (1) hold at least 10 percent equity interest in the facility, a in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding c of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). A nterest in the facility held by such owners. (Note that, because upstream r, total percent equity interest reported may exceed 100 percent.) ere if no such upstream owners exist.	y all upstream ( and (2) are elect ompanies, as d Iso provide the owners may be	i.e., indire tric utilitie efined in s percenta	ct) owr s, as section ge of ries of % equ
5b         Upstrea           of the fa         defined           1262(8)         equity in           another         Check he           1)	im (i.e., indirect) ownership as of effective date or operation date: Identify acility that both (1) hold at least 10 percent equity interest in the facility, a in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding c of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). A nterest in the facility held by such owners. (Note that, because upstream r, total percent equity interest reported may exceed 100 percent.) ere if no such upstream owners exist.	y all upstream ( and (2) are elect ompanies, as d Iso provide the owners may be	i.e., indire tric utilitie efined in s percenta	ct) owr s, as section ge of ries of % equ
Sb         Upstrea           of the fa         defined           1262(8)         equity in           another         Check he           1)	im (i.e., indirect) ownership as of effective date or operation date: Identify acility that both (1) hold at least 10 percent equity interest in the facility, a in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding c of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). A nterest in the facility held by such owners. (Note that, because upstream r, total percent equity interest reported may exceed 100 percent.) ere if no such upstream owners exist.	y all upstream ( and (2) are elect ompanies, as d Iso provide the owners may be	i.e., indire tric utilitie efined in s percenta	ct) owr s, as section ge of ries of % equ

FERC	Form	556
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	6a Describe the primary energy input: (check one main category and, if applicable, one subcategory)							
		Biomass (specify)	R	lene	wable resources (specify)	🗌 Geoth	ermal	
		📋 Landfill gas			Hydro power - river	🗌 Fossil	fuel (spec	ify)
		🔲 Manure digester gas			Hydro power - tidal		Coal (not	waste)
		Municipal solid waste			Hydro power - wave		Fuel oil/di	iesel
		Sewage digester gas			Solar - photovoltaic		Natural ga	as (not waste)
		🗋 Wood			Solar - thermal		Other foss	
		Other biomass (describe	on page 19)	$\boxtimes$	Wind	L	(describe	on page 19)
		Waste (specify type below in lin	1e 6b)		Other renewable resource (describe on page 19)	Other	(describe	on page 19)
	6b	If you specified "waste" as the prim	hary energy inp	out ir	ا line 6a, indicate the type c	of waste fuel (	used: (che	ck one)
		Waste fuel listed in 18 C.F.R. §	i 292.202(b) (sr	becify	y one of the following)			
		Anthracite culm produ	ced prior to Jul	iy 23,	, 1985			
		Anthracite refuse that I ash content of 45 perce		heat	t content of 6,000 Btu or les	s per pound a	and has a	n average
		Bituminous coal refuse average ash content of			e heat content of 9,500 Btu e	per pound o	r less and	has an
nput		determined to be wast (BLM) or that is located	e by the United on non-Federa	d Sta <sup>.</sup> al or	ced on Federal lands or on l tes Department of the Inter non-Indian lands outside o an extension of that determ	rior's Bureau o f BLM's jurisd	of Land M liction, pro	anagement ovided that
Energy Input		BLM or that is located of	on Indian lands that has be non-Indian lands outside of sion of that determined by	BLM's jurisdie	ction, pro			
LLJ	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 natural gas and synthetic gas from coal) (describe on page 19)							
			natural gas; in		scribe on page 19 how the e with your filing any mater			
		Materials that a govern	ment agency h	ias ce	ertified for disposal by com	bustion (des	cribe on p	age 19)
		Heat from exothermic r	eactions (desc	ribe	on page 19) 🛛 🗍 🛛	Residual heat	(describe	on page 19)
		Used rubber tires	Plastic ma	ateri	als 🛛 🗍 Refinery of	f-gas	🗌 Petro	oleum coke
-	,	Other waste energy input tha facility industry (describe in t lack of commercial value and	he Miscellaneo	ous se	ection starting on page 19; i	include a disc	cussion of	
	бc	Provide the average energy input, energy inputs, and provide the rela 292.202(j)). For any oil or natural g	ated percentag	je of	the total average annual er	nergy input to		
					average energy	Percentage of		
		Fuel Natural gas	inp I	out f		annual energ	<u> </u>	
		Oil-based fuels			0 Btu/h		0 %	
		Coal			0 Btu/h		0 %	
		Coal			0 Btu/h		0 %	

Indicate the maximum gross and maximum net electric power production capacity of the facility at 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.		d in
<b>7a</b> The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	20,700	kW
<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.	60	
	60	kW
7c Electrical losses in interconnection transformers	245	kŴ
7d Electrical losses in AC/DC conversion equipment, if any	0	kW
<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	395	kW
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	700.0	kW
<b>7g</b> Maximum net power production capacity = 7a - 7f		
<i></i>	20,000.0	kW

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

The Davison County Wind, LLC Wind Project consists of 9 General Electric wind energy turbines each rated at 2.3 MW nameplate capacity; GE also provides control technology which limits the aggregate output of the eleven turbines to 20MW. The turbine's energy output is transformed to 34.5 kV by a pad-mounted transformer, and output is transmitted through a 34.5 kV underground collector system to a new substation owned by Davison County Wind, LLC. The substation then delivers the transformed energy to a 34.5 kV distribution line owned by NorthWestern Corporation d/b/a NorthWestern Energy.

# 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 product with the power production capacity of any other small power production facilities that use th resource, are owned by the same person(s) or its affiliates, and are located at the same site, m megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Ince (Pub. L. 101-575, 104 Stat. 2834 (1990) <i>as amended by</i> Pub. L. 102-46, 105 Stat. 249 (1991)), res through 8e below (as applicable).	e same energy ay not exceed 80 r facility is exempt entives Act of 1990
	<b>8a</b> Identify any facilities with electrical generating equipment located within 1 mile of the ele equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, at least a 5 percent equity interest.	
UCE	Check here if no such facilities exist. 🔀	
pliar ons	Facility location     Root docket #       (city or county, state)     (if any)     Common owner(s)	Maximum net power production capacity
om  tati	1) QF	kW
mit C	2)QF	kW
e Li	3) QF -	kW
size	Check here and continue in the Miscellaneous section starting on page 19 if additional s	pace is needed
Certification of Compliance with Size Limitations	<b>8b</b> The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incent exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were cert Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the I         Image: Continue at line 8c below)       Image: Continue at line 8c below)	tified prior to 1995.
	<b>8c</b> Was the original notice of self-certification or application for Commission certification of t before December 31, 1994? Yes No	he facility filed on or
	8d Did construction of the facility commence on or before December 31, 1999? Yes N	0
	<b>8e</b> If you answered No in line 8d, indicate whether reasonable diligence was exercised towar the facility, taking into account all factors relevant to construction? Yes No If you a a brief narrative explanation in the Miscellaneous section starting on page 19 of the construct particular, describe why construction started so long after the facility was certified) and the dit toward completion of the facility.	nswered Yes, provide ion timeline (in
Certification of Compliance with Fuel Use Requirements	uels, in minimal ol use; alleviation or es, directly affecting ount of fossil fuels ring the 12-month thereafter.	
of C Rec	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:	
on c Use	Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed	above.
ati lel l	<b>9b</b> Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fue	I used annually:
Certific with Fu	Applicant certifies that the amount of fossil fuel used at the facility will not, in aggrega percent of the total energy input of the facility during the 12-month period beginning facility first produces electric energy or any calendar year thereafter.	

0

0

# 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.

	<u> </u>					
	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 sequentia use of energy. Pursuant to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping-cycle cogeneration facility, the use of reject heat from a power production process in sufficient amounts in a thermal application or process to conform to the requirements of the operating standard contained in 18 C.F.R. § 292.205(a); or (2) for a bottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal application or process for power production.					
	10a What type(s) of cog	eneration technology does the facility represent? (check all that apply)				
	Topping-cycle	e cogeneration Bottoming-cycle cogeneration				
	other requirements balance diagram de meet certain requir	te the sequential operation of the cogeneration process, and to support compliance with s 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	Requirement				
ration n		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 natioi		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.				
ien.		Diagram must specify average gross electric output in kW or MW for each generator.				
0		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 Requirements for Fundamental Use

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.	
	0
for Commission certification) filed on or before February 1, 2006? Yes No	0
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.	
<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?	0
Yes (continue at line 11d below)	
No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.	
<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?	0
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.	
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.	
<b>11e</b> Will electric energy from the facility be sold pursuant to section 210 of PURPA?	0
Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	
No. Applicant certifies that energy will <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.	
<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?	0
Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.	
No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.	
	the Public Utility Regulatory Policies Act of 1978 (PUPRA), 16 USC 824a-3(n), with additional requirements for any qualifying operaention facility that (1) is seeking to sell leader: 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 in 16 C.F.R. 3 29.205(d). Complete the lines below, carefull following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.  11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No Commission certification of pour facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No Commission certification of line 11 be 19 × (then continue at line 11 c below. Otherwise, if the answers to both lines 11 and 11b are No, skip to line 11 be 19 × (then continue at line 11 c below. Otherwise, if the answers to both lines 11 and 11b are No, skip to line 11 be blow.  11c With respect to the design and operation of He facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?  Yes (continue at line 11 d below) No. Your facility is not subject to the requirements of 18 C.F.R. 5 292.205(d) at this time. However, it may be subject to to the sequirements of 18 C.F.R. 5 292.205(d) at this time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11 the further, the applicant would need to recertify the facility to the facility in file of these changes. Skip lines 11 through 11).  11d Does the applicant contend that the changes identified in line 11 care not so significant as to make the facility a "new" cogeneration facility that w

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 \* 11q / (11q + 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.

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

#### FERC Form 556

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

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

g and	tion
Operating and	alculati
cle Op	/alue Calcu
ig-Cyc	incy V
Topping-Cycle (	Efficiency V

when mating and energy now values and system components are for which portion (or	ping of bottoming, of the
cogeneration system.	
13a Indicate the annual average rate of useful thermal energy output made available	
to the host(s), net of any heat contained in condensate return or make-up water	Btu/h
13b Indicate the annual average rate of net electrical energy output	
	kW
13c Multiply line 13b by 3,412 to convert from kW to Btu/h	
	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)	hn
	hp
<b>13e</b> 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
<b>13g</b> Topping-cycle operating value = $100 \times 13a / (13a + 13c + 13e)$	
	0 %
<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	
	0%
<b>13i</b> Compliance with operating standard: Is the operating value shown in line 13g gre	ater than or equal to 5%?
Yes (complies with operating standard) No (does not comply wi	th operating standard)
	un operating standard)
<b>12:</b> Did installation of the facility in its surrent form commonse on or after March 12.1	0907
<b>13j</b> Did installation of the facility in its current form commence on or after March 13, 1	960?
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, a	
complance war are enciency requirement by responding to line rok of rol, a	supplicable, below.
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.	
13k Compliance with efficiency standard (for low operating value): If the operating va	lue shown in line 13g is less
than 15%, then indicate below whether the efficiency value shown in line 13h greater t	
and 15%, then indicate below whether the enciency value shown in the 15h greater t	
Yes (complies with efficiency standard) No (does not comply wi	th efficiency standard)
131 Compliance with efficiency standard (for high operating value): If the operating va	lue shown in line 13g is
greater than or equal to 15%, then indicate below whether the efficiency value shown	
equal to 42.5%:	in the 15h is greater than 0
i cquai to 42.570.	
Yes (complies with efficiency standard) No (does not comply wi	th efficiency standard)
	· / · · · · · · · · · · · · · · · · · ·

#### FERC Form 556

# 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.

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

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

	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	the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)
1)		Select thermal host's relationship to facility	Yes No No
		Select thermal host's process type	Lunnad Lunnad
2)		Select thermal host's relationship to facility	Yes 🗔 No 🗍
		Select thermal host's process type	
3)		Select thermal host's relationship to facility	Yes 🗍 No 🦳
		Select thermal host's process type	

# Usefulness of Bottoming-Cycle Thermal Output

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

**14b** Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Bottoming-Cycle Operating and

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

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

15a Did installation of the facil	y in its current form commence on	or after March 13, 1980?
-----------------------------------	-----------------------------------	--------------------------

<ul> <li>No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.</li> <li><b>15b</b> Indicate the annual average rate of net electrical energy output</li> <li><b>15c</b> Multiply line 15b by 3,412 to convert from kW to Btu/h</li> <li><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)</li> </ul>		kW
<ul> <li>15c Multiply line 15b by 3,412 to convert from kW to Btu/h</li> <li>15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production</li> </ul>		kW
<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		
of the shaft of a prime mover for purposes not directly related to power production	0	Btu
		hp
<b>15e</b> Multiply line 15d by 2,544 to convert from hp to Btu/h		Btu
<b>15f</b> Indicate the annual average rate of supplementary energy input from natural gas or oil		Btu
<b>15g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 9	%

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

☐ The person on whose behalf the filing is made

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

- An officer, agent, or employe 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 1 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
	1502 17th St. SE Pipestone, MN	
Corey Juhl	56164	10/9/2015

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.

#### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

# 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 <u>Form556@ferc.gov</u>. 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, <u>www.ferc.gov/QF</u>. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

# Who Must File

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

# How to Complete the Form 556

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

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at <u>Form556@ferc.gov</u> 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 (<u>DataClearance@ferc.gov</u>); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (<u>oira\_submission@omb.eop.gov</u>). 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 <u>www.ferc.gov/QF</u> 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 <i>not</i> 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 <u>www.ferc.gov/QF</u> and clicking the Fee Schedule link.

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

# Required Notice to Utilities and State Regulatory Authorities

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

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

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

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

An applicant submitting a request for Commission certification will receive an order either granting or denying certification of QF status, or a letter requesting additional information or rejecting the application. Pursuant to 18 C.F.R. § 292.207(b)(3), the Commission must act on an application for Commission certification within 90 days of the later of the 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 <u>www.ferc.gov/QF</u> 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 <u>http://earth.google.com</u>), 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 <u>www.ferc.gov/help/filing-guide/file-ceii.asp</u> 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 <u>except</u> 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 <u>www.ferc.gov/QF</u>. 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 <u>all</u> 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

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

<b>1b</b> Applicant street a 1502 17th St.			
1c City		1d State/prov	ince
Pipestone		MN	
<b>1e Postal code</b> 56164	<b>1f</b> Country (if not United States)		<b>1g</b> Telephone number 5075628090
1h Has the instant fa	cility ever previously been certified as a Q	F? Yes 🗌 N	No 🛛
1i If yes, provide the	docket number of the last known QF filing	g pertaining to tl	his facility: QF
1j Under which certil	ication process is the applicant making th	nis filing?	
Notice of self-ce (see note below	· · · ·	-	ommission certification (requires filing e" section on page 3)
QF status. A noti notice of self-cer	If-certification is a notice by the applicant ce of self-certification does not establish a ification to verify compliance. See the "W 8 for more information.	a proceeding, an	d the Commission does not review a
1k What type(s) of Q	<sup>5</sup> status is the applicant seeking for its fac	ility? (check all th	nat apply)
🛛 Qualifying smal	power production facility status	ualifying cogene	eration facility status
	e and expected effective date(s) of this fi	-	
🛛 Original certifica	ation; facility expected to be installed by	<u>11/30/16</u> a	nd to begin operation on 12/31/16
	reviously certified facility to be effective of the second s		l
	of change(s) below, and describe change	e(s) in the Miscel	laneous section starting on page 19)
Change in o	e and/or other administrative change(s)		
_	fecting plant equipment, fuel use, power	production capa	city and/or cogeneration thermal output
	prrection to a previous filing submitted o		
	oplement or correction in the Miscellanec	······································	ng on page 19)
	wing three statements is true, check the b ible, explaining any special circumstance		
🖵 previously gra	ility complies with the Commission's QF n nted by the Commission in an order date Aiscellaneous section starting on page 19	d	virtue of a waiver of certain regulations (specify any other relevant waiver
	ility would comply with the Commission' vith this application is granted	's QF requiremen	ts if a petition for waiver submitted
employment o	ility complies with the Commission's region of unique or innovative technologies not of the second second second second second second second second second nation of compliance via this form difficult second s	contemplated by	the structure of this form, that make

FE	RC Form 556				Page 6 - All Facilities	
	<b>2a</b> Name of contact person Corey Juhl			<b>2b</b> Telephone 507820067		
Contact Information	<ul> <li>2c Which of the following describes t</li> <li>Applicant (self)  Emploid</li> <li>Employee of a company affiliate</li> <li>Lawyer, consultant, or other rep</li> <li>2d Company or organization name ( Juhl Energy, Inc.</li> <li>2e Street address (if same as Applica)</li> </ul>	yee, owner or partner of a ed with the applicant auth presentative authorized to if applicant is an individual	pplicant authori prized to represe represent the ap , check here and	ized to represent ent the applican pplicant on this r	the applicant t on this matter natter	
	2f City		2g State/provi	ince		
	2h Postal code	<b>2i</b> Country (if not United S	itates)			
Facility Identification and Location	<ul> <li>3a Facility name Brule County Wind, LLC</li> <li>3b Street address (if a street address</li> <li>3c Geographic coordinates: If you in then you must specify the latitud the following formula to convert degrees + (minutes/60) + (second provided a street address for your Longitude East (+) 98</li> <li>3d City (if unincorporated, check her Kimball</li> <li>3f County (or check here for independing a context of the street of the</li></ul>	dicated that no street add e and longitude coordinate to decimal degrees from d ls/3600). See the "Geogra r facility in line 3b, then spe .913 degrees e and enter nearest city)	ress exists for yo es of the facility egrees, minutes phic Coordinate ecifying the geo Latitude	our facility by che in degrees (to th and seconds: de section on pa graphic coordina North (+) South (-) rovince	ecking the box in line 3b, ree decimal places). Use ecimal degrees = rge 4 for help. If you	0
<u>й</u>	Brule	- Kannar	•	onited Statesy		Ű
Transacting Utilities	<ul> <li>Identify the electric utilities that are constrained.</li> <li>4a Identify utility interconnecting with NorthWestern Corporation.</li> <li>4b Identify utilities providing wheeling.</li> <li>4c Identify utilities purchasing the use and the second second</li></ul>	th the facility , d/b/a NorthWester ng service or check here if	n Energy none 🔀	none 🔀		6
Tran	<b>4d</b> Identify utilities providing supple service or check here if none NorthWestern Corporation,			nce power, and/c	or interruptible power	C

FERC Form 556

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	Direct ownership as of effective date or operation date: Identify all direct owners of the 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 r two direct owners with the largest equity interest in the facility.	er is an ele pany, as de ) for owner / held by th	ectric utilit efined in s rs which a nat owner	y, as section re electrie . If no
	Full legal names of direct owners	Electric u hold comp	ling	If Yes % equi interes
1)	Juhl Energy, Inc.	Yes 🗌	No 🔀	
2)		Yes 🗌	No 🗌	
3)		Yes 🗌	No 🗌	
4)		Yes 🗌	No 🗌	
5)		Yes 🗌	No 🗌	
6)		Yes 🗌	No 🗌	
7)		Yes 🗌	No 🗌	
8)		Yes 🗌	No 🗌	
9)		Yes 🗌	No 🗌	_
10		Yes 🗌	No 🗌	
	Charle have and continue in the Missellander station station on page 10 if addi	tional spac	-e is need	
	Check here and continue in the Miscellaneous section starting on page 19 if addit Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owners)	upstream (i 2) are elect anies, as de provide the	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of
	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.)	upstream (i 2) are elect anies, as de provide the	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of
	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of o
	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.)	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of o % equi
1)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of or % equit
- 1) 2)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of
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- 1) 2)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of or % equi
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- 1) 2) 3) 4) 5)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of o % equi
- 1) 2) 3) 4) 5) 6)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of or % equit
1) 2) 3) 4) 5) 6) 7)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compare 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owner another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of o % equi
- 1) 2) 3) 4) 5) 6) 7) 8)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owne another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.  Full legal names of electric utility or holding company upstream owne Full legal names of electric utility or holding company upstream owne	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indired ric utilities efined in s percenta	ct) owne s, as section ge of ries of o % equi
- 1) 2) 3) 4) 5) 6) 7) 8) 9)	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all u of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also p equity interest in the facility held by such owners. (Note that, because upstream owne another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.  Full legal names of electric utility or holding company upstream owne Full legal names of electric utility or holding company upstream owne	upstream (i 2) are elect anies, as de rovide the ers may be	i.e., indirec ric utilitie: efined in s percenta e subsidia	ct) owne s, as section ge of ries of o % equi intere

#### Page 8 - All Facilities

	ба	Describe t	he primary energy input: (cł	neck one ma	in category and, if	applicable, c	one subcategory)	
		🗌 Biomas	ss (specify)	🛛 R	enewable resource	es (specify)	Geothermal	
		_ι	andfill gas.		Hydro power	- river	Fossil fuel (spec	:ify)
,			Manure digester gas		Hydro power	- tidal	🔲 Coal (not	waste)
			Municipal solid waste		Hydro power	- wave	📋 Fuel oil/c	iesel
			Sewage digester gas		📋 Solar - photov	oltaic	📋 Natural g	as (not waste)
			Vood		Solar - therma	l	Other fos	sil fuel on page 19)
			Other biomass (describe on	page 19)	Wind	<b>b</b> l		
			(specify type below in line 6		Other renewa (describe on p	bage 19)	Other (describe	·
-	6b	lf you spec	cified "waste" as the primary	energy inp	ut in line 6a, indica	ite the type o	f waste fuel used: (ch	eck one)
		🗌 Wast	e fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecify one of the fo	llowing)		
			Anthracite culm produced	prior to July	y 23, 1985			
			Anthracite refuse that has ash content of 45 percent		heat content of 6,(	00 Btu or les	s per pound and has a	in average
			Bituminous coal refuse tha average ash content of 25			of 9,500 Btu	per pound or less and	l has an
nput			Top or bottom subbitumir determined to be waste by (BLM) or that is located on the applicant shows that t	/ the United non-Federa	States Departmer I or non-Indian lar	nt of the Inter Ids outside of	ior's Bureau of Land N f BLM's jurisdiction, pr	lanagement ovided that
Energy Input			Coal refuse produced on F BLM or that is located on n applicant shows that the la	on- Federal	or non-Indian land	ds outside of	BLM's jurisdiction, pro	
ш			Lignite produced in associ as a result of such a mining		he production of m	nontan wax a	nd lignite that becom	es exposed
			Gaseous fuels (except natu	ıral gas and	synthetic gas from	coal) (descri	be on page 19)	
			Waste natural gas from gas C.F.R. § 2.400 for waste nat compliance with 18 C.F.R.	tural gas; ind				
			Materials that a governme	nt agency h	as certified for disp	osal by com	bustion (describe on	oage 19)
			Heat from exothermic read	tions (desci	ibe on page 19)	R	Residual heat (describ	e on page 19)
			Used rubber tires	] Plastic ma	aterials	] Refinery off	f-gas 🗌 Petr	oleum coke
		🔄 facilit	r waste energy input that ha y industry (describe in the l of commercial value and exi	Miscellaneo	us section starting	on page 19; i	nclude a discussion o	
	бc	energy inp	e average energy input, calo outs, and provide the related . For any oil or natural gas f	d percentag	e of the total avera	ige annual en	ergy input to the faci	
					nual average energ		Percentage of total	
			Fuel Natural gas	inp	out for specified fu		annual energy input	1
			Oil-based fuels	<del></del>		0 Btu/h	0 %	
			Coal		<del>***-*********************************</del>	0 Btu/h	0 %	-
						0 Btu/h	0 %	]

Indicate the maximum gross and maximum net electric power production capacity of the facility at t 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.	
<b>7a</b> The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	20,7 <u>00</u> kW
<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.	co kw
7c Electrical losses in interconnection transformers	60 kW
C Electrical losses in interconnection transformers	245 kW
7d Electrical losses in AC/DC conversion equipment, if any	o kW
<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	395 kW
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	700.0 kW
<b>7g</b> Maximum net power production capacity = 7a - 7f	
	20,000.0 kW

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

The Brule County Wind, LLC Wind Project consists of 9 General Electric wind energy turbines each rated at 2.3 MW nameplate capacity; GE also provides control technology which limits the aggregate output of the eleven turbines to 20MW. The turbine's energy output is transformed to 34.5 kV by a pad-mounted transformer, and output is transmitted through a 34.5 kV underground collector system to a new substation owned by Brule County Wind, LLC. The substation transforms the output to 69 kV and delivers the transformed energy to a 69 kV transmission line owned by NorthWestern Corporation d/b/a NorthWestern Energy.

# 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), th with the power production capacity resource, are owned by the same pe megawatts. To demonstrate compli from this size limitation under the So (Pub. L. 101-575, 104 Stat. 2834 (1994) through 8e below (as applicable).	of any other small powe rson(s) or its affiliates, a ance with this size limita blar, Wind, Waste, and G	er production facilities that use t and are located at the same site, r ation, or to demonstrate that you eothermal Power Production Inc	he same energy nay not exceed 80 ur facility is exempt centives Act of 1990
	<b>8a</b> Identify any facilities with electri equipment of the instant facility, and at least a 5 percent equity interest.	cal generating equipme I for which any of the er	ent located within 1 mile of the entities identified in lines 5a or 5b	electrical generating , or their affiliates, holds
lce	Check here if no such facilities exist.	$\boxtimes$		
tification of Complian with Size Limitations	Facility location (city or county, state)	Root docket # (if_any)	Common owner(s)	Maximum net power production capacity
om tati	1)	QF		kW
j Č	2)	QF		kW
le L	3)	QF		
atio Siz	Check here and continue in the	Miscellaneous section s	starting on page 19 if additional	space is needed
Certification of Compliance with Size Limitations	<b>8b</b> The Solar, Wind, Waste, and Geo exemption from the size limitations Are you seeking exemption from the Yes (continue at line 8c belo	in 18 C.F.R. § 292.204(a) size limitations in 18 C.	for certain facilities that were ce	rtified prior to 1995. Incentives Act?
	8c Was the original notice of self-ce before December 31, 1994? Yes	rtification or applicatior	n for Commission certification of	the facility filed on or
	<b>8d</b> Did construction of the facility of	ommence on or before	December 31, 1999? Yes 🗌	No 🗌
	<b>8e</b> If you answered No in line 8d, inc the facility, taking into account all fac a brief narrative explanation in the N particular, describe why construction toward completion of the facility.	ctors relevant to constru liscellaneous section sta	uction? Yes 🔄 No 🔄 If you arting on page 19 of the construe	answered Yes, provide ction timeline (in
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qu amounts, for only the following purp prevention of unanticipated equipm the public health, safety, or welfare, v used for these purposes may not exc period beginning with the date the f	ooses: ignition; start-up; ent outages; and allevia which would result from eed 25 percent of the to	testing; flame stabilization; con ition or prevention of emergenc electric power outages. The an otal energy input of the facility d	trol use; alleviation or ies, directly affecting nount of fossil fuels uring the 12-month
of C Re	<b>9a</b> Certification of compliance with	18 C.F.R. § 292.204(b) wi	ith respect to uses of fossil fuel:	
ion c Use	Applicant certifies that the fa	cility will use fossil fuels	<i>exclusively</i> for the purposes liste	ed above.
cat uel	<b>9b</b> Certification of compliance with	18 C.F.R. § 292.204(b) w	ith respect to amount of fossil fu	el used annually:
Certifi with F	Applicant certifies that the an percent of the total energy ir facility first produces electric	put of the facility durin		

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# 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 s use of energy. Pursuant cycle cogeneration facili thermal application or p	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 topping-ty, the use of reject heat from a power production process in sufficient amounts in a rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § ottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal ar power production.				
		eneration technology does the facility represent? (check all that apply)				
	Topping-cycle	e cogeneration Bottoming-cycle cogeneration				
	10b To help demonstrate the sequential operation of the cogeneration process, and to support compliance with other requirements such as the operating and efficiency standards, include with your filing a mass and heat balance diagram depicting average annual operating conditions. This diagram must include certain items and meet certain requirements, as described below. You must check next to the description of each requirement below to certify that you have complied with these requirements.					
	Check to certify compliance with					
	indicated requirement	Requirement				
ration n		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.				
U		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 Requirements for Fundamental Use

	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.	
	<b>11a</b> Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	0
	<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 No	0
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.	
acilitie	<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?	0
пF	Yes (continue at line 11d below)	
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.	
oger	<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?	0
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.	
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.	
y C	<b>11e</b> Will electric energy from the facility be sold pursuant to section 210 of PURPA?	0
nerg	$\square$ 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.	
of Ei	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.	
	<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?	0
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.	
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.	

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

١	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)
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	
<i></i>		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	
<u> </u>		Select thermal host's use of thermal output	Btu/h
6)		Select thermal host's relationship to facility	
J)		Select thermal host's use of thermal output	Btu/h

**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.



Topping-Cycle Operating and Efficiency Value Calculation 侵多

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

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

<b>13a</b> 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
<b>13c</b> Multiply line 13b by 3,412 to convert from kW to Btu/h		
	0	Btu/h
<b>13d</b> Indicate the annual average rate of mechanical energy output taken directly off		
of the shaft of a prime mover for purposes not directly related to power production		
(this value is usually zero)		hp
<b>13e</b> Multiply line 13d by 2,544 to convert from hp to Btu/h		•
······································	0	Btu/h
<b>13f</b> Indicate the annual average rate of energy input from natural gas and oil		
for malate the annual average rate of energy input non-mataral gas and on		Btu/h
<b>13g</b> Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)		ocu/m
Tog ropping cycle operating value = 100 1547 (154 1 156 1 156)	0	%
<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	<u> </u>	70
	0	%
<b>13i</b> Compliance with operating standard: Is the operating value shown in line 13g gre		
Tor compliance with operating standard, is the operating value shown in line rog gre	ater than or equal to 5	/0.
Yes (complies with operating standard) INO (does not comply wi	th operating standard)	
13j Did installation of the facility in its current form commence on or after March 13, 1	980?	
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205 compliance with the efficiency requirement by responding to line 13k or 13l, as		
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.		
<b>13k</b> Compliance with efficiency standard (for low operating value): If the operating va	lue shown in line 13g i	s less
than 15%, then indicate below whether the efficiency value shown in line 13h greater t	han or equal to 45%:	
Yes (complies with efficiency standard) No (does not comply with	h efficiency standard)	

Yes (complies with efficiency standard)

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.

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)
1)		Select thermal host's relationship to facility	Yes No No
		Select thermal host's process type	Lanual Lanual
2)		Select thermal host's relationship to facility	Yes  No
~/	· · · · · · · · · · · · · · · · · · ·	Select thermal host's process type	
3)		Select thermal host's relationship to facility	Yes No
		Select thermal host's process type	

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

**14b** Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

Bottoming-Cycle Operating and

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

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

15a Did installation of the facil	ty in its current form commence on	or after March 13, 1980?
-----------------------------------	------------------------------------	--------------------------

<b>15a</b> Did installation of the facility in its current form comm Yes. Your facility is subject to the efficiency requirement by responding to	ement of 18 C.F.R. § 292.205(b). Demonstrate complian
No. Your facility is exempt from the efficiency star	ıdard. Skip the rest of page 17.
15b Indicate the annual average rate of net electrical ener	rgy output kW
<b>15c</b> Multiply line 15b by 3,412 to convert from kW to Btu/	h0_Btu
<b>15d</b> Indicate the annual average rate of mechanical energy of the shaft of a prime mover for purposes not directly relatives (this value is usually zero)	ted to power production
<b>15e</b> Multiply line 15d by 2,544 to convert from hp to Btu/	h hp 0 Btu
<b>15f</b> Indicate the annual average rate of supplementary en or oil	
<b>15g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e)	(15f

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

☐ The person on whose behalf the filing is made

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

- An officer, agent, or employe 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
	1502 17th St. SE Pipestone, MN	
Corey Juhl	56164	10/13/2015

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.

### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

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

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

### General

Questions about completing this form should be sent to <u>Form556@ferc.gov</u>. 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, <u>www.ferc.gov/QF</u>. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

### Who Must File

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

## How to Complete the Form 556

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

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at <u>Form556@ferc.gov</u> 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 (<u>DataClearance@ferc.gov</u>); and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (<u>oira\_submission@omb.eop.gov</u>). 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 <u>www.ferc.gov/QF</u> 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 <i>not</i> 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 <u>www.ferc.gov/QF</u> 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.

### 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 <u>www.ferc.gov/QF</u> 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 <u>http://earth.google.com</u>), 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 <u>www.ferc.gov/help/filing-guide/file-ceii.asp</u> 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 <u>except</u> 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 <u>www.ferc.gov/QF</u>. 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 <u>all</u> 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

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OMB Control # 1902-0075 Expiration 5/31/2016

Earm	556	Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility
гопп	220	Production or Cogeneration Facility

<b>1b</b> Applicant street addre 1502 17th St. SE			
1c City		1d State/provi	nce
Pipestone		MN	I
<b>1e</b> Postal code 56164	<b>1f</b> Country (if not United States)		<b>1g</b> Telephone number 5075628090
<b>1h</b> Has the instant facility	vever previously been certified as a Q	F? Yes 🗌 N	lo 🛛
1i If yes, provide the doc	ket number of the last known QF filing	g pertaining to th	nis facility: QF
<b>1j</b> Under which certificat	ion process is the applicant making th	nis filing?	
Notice of self-certific (see note below)		-	mmission certification (requires filing " section on page 3)
QF status. A notice o	f self-certification does not establish a ation to verify compliance. See the "W	a proceeding, and	
1k What type(s) of QF sta	tus is the applicant seeking for its fac	ility? (check all th	nat apply)
Qualifying small por	wer production facility status	ualifying cogene	eration facility status
<b>1</b> What is the purpose ar	nd expected effective date(s) of this fil	ing?	
Original certification	n; facility expected to be installed by	<u>11/30/16</u> an	nd to begin operation on 12/31/16
	ously certified facility to be effective of change(s) below, and describe change		aneous section starting on page 19)
Name change ar	nd/or other administrative change(s)		
Change in owne	rship		
Change(s) affect	ing plant equipment, fuel use, power	production capa	city and/or cogeneration thermal output
	ction to a previous filing submitted or		10)
	ment or correction in the Miscellanec		
to the extent possible	, explaining any special circumstance	s in the Miscellar	• · -
🖵 previously granted	complies with the Commission's QF d by the Commission in an order date ellaneous section starting on page 19	d	virtue of a waiver of certain regulations (specify any other relevant waiver
	would comply with the Commission' this application is granted	s QF requiremen	ts if a petition for waiver submitted
employment of ur	r complies with the Commission's reginited or innovative technologies not on of compliance via this form difficult	contemplated by	

FE	RC Form 556		Page 6 - All Facilities
	2a Name of contact person		2b Telephone number
	Corey Juhl		5078200670
	<b>2c</b> Which of the following describes t	he contact person's relation	ship to the applicant? (check one)
	Applicant (self) 🛛 🕅 Emplo	yee, owner or partner of app	licant authorized to represent the applicant
No	Employee of a company affiliate	ed with the applicant author	zed to represent the applicant on this matter
ati	Lawyer, consultant, or other reg	presentative authorized to re	present the applicant on this matter
5	2d Company or organization name (		
lfo	Juhl Energy, Inc.		······
Contact Information	<b>2e</b> Street address (if same as Applica	nt. check here and skip to lir	e 3a) 🔀 🦉
tac			
bu			
Ŭ	2f City		g State/province
		-	g state, province
	<b>2h</b> Postal code	<b>2i</b> Country (if not United Sta	tas)
		Zi country (in not onned ste	ites,
<u> </u>	<b>3a</b> Facility name		
n	Aurora County Wind, LLC		
atic	<b>3b</b> Street address (if a street address	does not exist for the facility	check here and skin to line 3c11
ŬŎ		does not exist for the rucinty	, check here and skip to line 3c)
dentification and Location	then you must specify the latitud the following formula to convert degrees + (minutes/60) + (second	e and longitude coordinates to decimal degrees from deg ds/3600). See the "Geograp	as exists for your facility by checking the box in line 3b, of the facility in degrees (to three decimal places). Use prees, minutes and seconds: decimal degrees = hic Coordinates" section on page 4 for help. If you ifying the geographic coordinates below is optional.
denti	Longitude 🗌 East (+) 98	.654 degrees	Latitude North (+) 43.722 degrees
•	3d City (if unincorporated, check her	e and enter nearest city) 🗌	3e State/province
ilit	Kimball		SD
Facility	3f County (or check here for indepen	ident city) 🔄 3g (	country (if not United States)
	Aurora		
	Identify the electric utilities that are co	ontemplated to transact with	the facility.
es	4a Identify utility interconnecting wi	th the facility	
liti	NorthWestern Corporation	, d/b/a NorthWestern	Energy
Uti	4b Identify utilities providing wheeli	na service or check here if no	one 🛛
Ď		5	
tin	<b>4c</b> Identify utilities purchasing the us	eful electric power output o	r check here if none 🔀
Transacting Utilities			
an	4d Identify utilities providing supple	mentary power, backup pow	er, maintenance power, and/or interruptible power
	service or check here if none		er, maintenance power, and/or interruptible power
	NorthWestern Corporation	, d/b/a NorthWestern	Energy

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1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and ( utilities or holding companies, provide the percentage of equity interest in the facilit 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.	ty held by that owne	section are electri r. If no
Full legal names of direct owners	Electric utility or holding company	lf Yes, % equit interes
1) Juhl Energy, Inc.	Yes No 🕅	-
2)	Yes No	
3)	Yes 🗌 No 🗍	
4)	Yes 📄 No 📄	
5)	Yes 🗌 No 🗌	
6)	Yes 🗌 No 🗌	
7)	Yes 🗌 No 🗌	
8)	Yes 📃 No 🗌	
9)	Yes 🗌 No 🗌	<b></b>
10)	Yes 📄 No 📄	
Check here and continue in the Miscellaneous section starting on page 19 if add	litional space is need	ded
1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also equity interest in the facility held by such owners. (Note that, because upstream own another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist. 🔀	provide the percenti ners may be subsidia	age of aries of o
		% equit
Full legal names of electric utility or holding company upstream own	ers	
Full legal names of electric utility or holding company upstream own 1)	ers	
	ers	•
1)	ers	•
1) 2)	ers	•
1)       2)       3)	ers	•
1)         2)         3)         4)	ers	•
1)         2)         3)         4)         5)	ers	% equit
1)         2)         3)         4)         5)         6)         7)         8)	ers	•
1)         2)         3)         4)         5)         6)         7)	ers	•
1)         2)         3)         4)         5)         6)         7)         8)	ers	•
1)         2)         3)         4)         5)         6)         7)         8)         9)		intere

FEF	RC F	orm 556				Page 8 - All Facilities
	6a	Describe the primary energy input: (check o	one main o	category and, if applicable, o	ne subcate	gory)
		🔲 Biomass (specify)	🔀 Rene	wable resources (specify)	🔄 Geotł	nermal
		🔲 Landfill gas		Hydro power - river	🗌 Fossil	fuel (specify)
		Manure digester gas		Hydro power - tidal		Coal (not waste)
		Municipal solid waste		Hydro power - wave		Fuel oil/diesel
		Sewage digester gas		Solar - photovoltaic		Natural gas (not waste)
		Wood		Solar - thermal	m	Other fossil fuel
		📋 Other biomass (describe on page	19) 🛛	Wind		(describe on page 19)
		Waste (specify type below in line 6b)		Other renewable resource (describe on page 19)	Other	(describe on page 19)
	6b	If you specified "waste" as the primary ener	gy input i	n line 6a, indicate the type of	waste fuel	used: (check one)
		🔲 Waste fuel listed in 18 C.F.R. § 292.202	(b) (specif	y one of the following)		
		Anthracite culm produced prior	to July 23	, 1985		
		Anthracite refuse that has an av as hor content of 45 percent or mo		t content of 6,000 Btu or less	per pound	and has an average
		Bituminous coal refuse that has average ash content of 25 perce		•	per pound o	or less and has an
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has bee determined to be waste by the United States Department of the Interior's Bureau of Land Man (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provi the applicant shows that the latter coal is an extension of that determined by BLM to be waste					of Land Management diction, provided that
Energy Input		Coal refuse produced on Federa BLM or that is located on non- F applicant shows that the latter i	ederal or ı	non-Indian lands outside of E	BLM's jurisd	iction, provided that
ш		Lignite produced in association as a result of such a mining oper		production of montan wax ar	nd lignite th	at becomes exposed
		🔲 Gaseous fuels (except natural ga	is and syn	thetic gas from coal) (describ	oe on page	19)
		Waste natural gas from gas or of C.F.R. § 2.400 for waste natural of compliance with 18 C.F.R. § 2.40	gas; includ		-	-
		Materials that a government age	ency has c	ertified for disposal by comb	ustion (des	cribe on page 19)
		Heat from exothermic reactions	(describe	on page 19) 🛛 🗌 Re	esidual hea	t (describe on page 19)
		🗌 Used rubber tires 🛛 🗍 Pla	stic materi	ials 🛛 🗍 Refinery off-	gas	Petroleum coke
		Other waste energy input that has littl facility industry (describe in the Misce lack of commercial value and existence	llaneous s	ection starting on page 19; ir	nclude a dis	cussion of the fuel's
	бс	Provide the average energy input, calculate energy inputs, and provide the related pero 292.202(j)). For any oil or natural gas fuel, u	entage of	the total average annual en	ergy input t	

Fuel	Annual average energy input for specified fuel	Percentage of total annual energy input
Natural gas	0 Btu/h	0 %
Oil-based fuels	0 Btu/h	0 %
Coal	0 Btu/h	0 %

8 - All Facilities

		-
Indicate the maximum gross and maximum net electric power production capacity of the facility at a 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.		l in
<b>7a</b> The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	20,700	kW
<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.	60	kW
7c Electrical losses in interconnection transformers	245	kW
7d Electrical losses in AC/DC conversion equipment, if any	0 1	kW
<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	395	
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$		
	700.0	kW
<b>7g</b> Maximum net power production capacity = 7a - 7f		
	20,000.01	κW

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

The Aurora County Wind, LLC Wind Project consists of 9 General Electric wind energy turbines each rated at 2.3 MW nameplate capacity; GE also provides control technology which limits the aggregate output of the eleven turbines to 20MW. The turbine's energy output is transformed to 34.5 kV by a pad-mounted transformer, and output is transmitted through a 34.5 kV underground collector system to a new substation owned by Aurora County Wind, LLC. The substation transforms the output to 69 kV and delivers the transformed energy to a 69 kV transmission line owned by NorthWestern Corporation d/b/a NorthWestern Energy.

Technical Facility Information

### 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 with the power production capacity of resource, are owned by the same per megawatts. To demonstrate complia from this size limitation under the Sol (Pub. L. 101-575, 104 Stat. 2834 (1990 through 8e below (as applicable).	of any other small pov son(s) or its affiliates, ince with this size limi lar, Wind, Waste, and ) <i>as amended by</i> Pub.	ver production facilities that use and are located at the same site, tation, or to demonstrate that yo Geothermal Power Production Ir L. 102-46, 105 Stat. 249 (1991)), r	the same energy may not exceed 80 our facility is exempt neentives Act of 1990 respond to lines 8a
	<b>8a</b> Identify any facilities with electric equipment of the instant facility, and at least a 5 percent equity interest.			
Ce	Check here if no such facilities exist.	$\boxtimes$		
tification of Complian with Size Limitations	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity
om  tati	1)	QF		kW
ini Č	2)	QF		kW
n o e L	3)	QF		kW
Siz	Check here and continue in the l	Miscellaneous section	starting on page 19 if additiona	I space is needed
Certification of Compliance with Size Limitations	<ul> <li>8b The Solar, Wind, Waste, and Geot exemption from the size limitations in Are you seeking exemption from the Yes (continue at line 8c belo</li> <li>8c Was the original notice of self-cer before December 31, 1994? Yes </li> </ul>	n 18 C.F.R. § 292.204(a size limitations in 18 ( w)	) for certain facilities that were c F.R. § 292.204(a) by virtue of th No (skip lines 8c through 8	ertified prior to 1995. e Incentives Act? e)
	<b>8d</b> Did construction of the facility co	mmence on or before	December 31, 1999? Yes	No 📋
	<b>8e</b> If you answered No in line 8d, ind the facility, taking into account all fac a brief narrative explanation in the Mi particular, describe why construction toward completion of the facility.	tors relevant to const iscellaneous section s	ruction? Yes No If you arting on page 19 of the constru	u answered Yes, provide uction timeline (in
ompliance Juirements	Pursuant to 18 C.F.R. § 292.204(b), qua amounts, for only the following purpo prevention of unanticipated equipme the public health, safety, or welfare, w used for these purposes may not exce period beginning with the date the fa	oses: ignition; start-up ent outages; and allevi rhich would result fro eed 25 percent of the	o; testing; flame stabilization; con ation or prevention of emergen n electric power outages. The a cotal energy input of the facility	ntrol use; alleviation or cies, directly affecting mount of fossil fuels during the 12-month
of C Re	<b>9a</b> Certification of compliance with 1	8 C.F.R. § 292.204(b) v	vith respect to uses of fossil fuel:	
on c Use	Applicant certifies that the fac	ility will use fossil fue	s exclusively for the purposes list	ted above.
Certification of Complian with Fuel Use Requireme	<ul> <li>9b Certification of compliance with 1</li> <li>Applicant certifies that the am</li> <li>☑ percent of the total energy inpercent of the total energy inpercent facility first produces electric energy</li> </ul>	nount of fossil fuel use out of the facility duri	d at the facility will not, in aggre ng the 12-month period beginni	gate, exceed 25

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# 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 s use of energy. Pursuant cycle cogeneration facili thermal application or p	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 topping-ty, 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. § pottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal sor power production.
	<b>10a</b> What type(s) of cog	eneration technology does the facility represent? (check all that apply)
	Topping-cycle	e cogeneration Bottoming-cycle cogeneration
	other requirements balance diagram d meet certain requir	te the sequential operation of the cogeneration process, and to support compliance with s 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	Requirement
General Cogeneration Information		Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.
		Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.
		Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.
iene		Diagram must specify average gross electric output in kW or MW for each generator.
U		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.

		00
	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines	~
ental Use Facilities	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?	0
Fundam neration	<ul> <li>Yes (continue at line 11d below)</li> <li>No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be</li> <li>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.</li> </ul>	
<sup>2</sup> Act 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities	<ul> <li>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?</li> <li>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.</li> </ul>	0
Requirer Jutput fr	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 Jy C		0
ct 20 nerç	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 Er	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.	
	<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?	0
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.	
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.	

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).

<b>11g</b> 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
<b>11i</b> Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility $= 100 \times 112 / (112 + 11h)$	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.

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

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*.

	Name of entity (thermal host) taking thermal output	Thermal host's relationship to facility; Thermal host's use of thermal output	Average annual rate of thermal output attributable to use (net of heat contained in process return or make-up water)
1)		Select thermal host's relationship to facility	
.,	······································	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
3)		Select thermal host's relationship to facility	
<i></i>		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	
<u> </u>		Select thermal host's use of thermal output	Btu/h
6)		Select thermal host's relationship to facility	
U)		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.



(F))

Applicants for facilities representing topping-cycle technology must demonstrate compliance with the toppingcycle 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 131 below.

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

<b>Dperating and</b>	culation
cle (	cy Value Calcu
<b>Fopping-Cy</b>	Efficiency \

which mass and energy flow values and system components are for which portion (top	oping or bottoming) of	the
cogeneration system.		
13a Indicate the annual average rate of useful thermal energy output made available	1	
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	1	
		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	1	
(this value is usually zero)	1	hp
<b>13e</b> Multiply line 13d by 2,544 to convert from hp to Btu/h	**************************************	
	0	Btu/h
<b>13f</b> Indicate the annual average rate of energy input from natural gas and oil	<u> </u>	DLU/II
<b>131</b> Indicate the annual average rate of energy input north hatural gas and of	1	D+u/h
<b>12</b> Tamina and a section of the 100 × 12 ((12 + 12 + 12 ))		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		
	0	%
13i Compliance with operating standard: Is the operating value shown in line 13g gre	ater than or equal to 5°	%?
Yes (complies with operating standard) I No (does not comply wi	th operating standard)	
<b>13j</b> Did installation of the facility in its current form commence on or after March 13, 1	9807	
<b>15</b> Ora installation of the facility in its current form commence on or after march 15, 1	500:	
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205 compliance with the efficiency requirement by responding to line 13k or 13l, a		
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.		
<b>13k</b> Compliance with efficiency standard (for low operating value): If the operating value than 15%, then indicate below whether the efficiency value shown in line 13h greater t		s less
Yes (complies with efficiency standard) ON (does not comply wi	th efficiency standard)	
<b>131</b> Compliance with efficiency standard (for high operating value): If the operating variable greater than or equal to 15%, then indicate below whether the efficiency value shown equal to 42.5%:		
Yes (complies with efficiency standard) I No (does not comply with	th efficiency standard)	

Usefulness of Bottoming-Cycle

### 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.

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 bottomingcycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below. 14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process in separate rows. Has the energy input to the thermal host been Name of entity (thermal host) performing the process from augmented for purposes of increasing power which at least some of the reject heat is used for power production capacity? Thermal host's relationship to facility; (if Yes, describe on p. 19) production Thermal host's process type Select thermal host's relationship to facility Yes No 1) Select thermal host's process type Select thermal host's relationship to facility Yes No 2) Select thermal host's process type Select thermal host's relationship to facility Yes No 3) Select thermal host's process type Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

 Select thermal host's process type

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

 **14b** Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19.

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 based on the date that installation of the facility began, respond to lines 15a through 15h below.

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

15a Did installation of the facility in its current form commence on or after March 13, 1980	15a	Did installation	of the facility in	its current form	commence on o	r after March 13	. 1980?
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Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). Demonstrate compliance with the efficiency requirement by responding to lines 15b through 15h below.

No. Your facility is exempt from the efficiency standard. Skip the rest of page 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	0 1 M 2 2 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
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
15f Indicate the annual average rate of supplementary energy input from natural gas		
oroil		Btu/h
<b>15g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f		
	0	%
<b>15h</b> Compliance with efficiency standard: Indicate below whether the efficiency value than or equal to 45%:	shown in line 15g is g	reater
Yes (complies with efficiency standard) No (does not comply wit	h efficiency standard)	

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

☐ The person on whose behalf the filing is made

- An officer of the corporation, trust, association, or other organized group on behalf of which the filing is made
- $\Box$  An officer, agent, or employe 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
	1502 17th St. SE Pipestone, MN	
Corey Juhl	56164	10/9/2015

Audit Notes

FERC Form 556

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.