# FEDERAL ENERGY REGULATORY COMMISSION

WASHINGTON, DC

Prelude LLC	cant (legal entity on whose behalf qual	inging facility statu:	is sought for this facility
<b>1b Applicant street a</b> 146 Alpine Dr.			
1c City		1d State/provi	nce
Green Bay		WI	
<b>1e Postal code</b> 54302	<b>1f</b> Country (if not United States)		<b>1g Telephone number</b> 9203934131
<b>1h</b> Has the instant fac	cility ever previously been certified as a	QF? Yes 🗙 N	0
<b>1</b> i If yes, provide the c	docket number of the last known QF fili	ing pertaining to th	is facility: QF14 - 112 - 002
· · · · · · · · · · · · · · · · · · ·	 ication process is the applicant making		
Notice of self-cel		-	mmission certification (requires filing " section on page 2)
QF status. A notic notice of self-cert	If-certification is a notice by the applica ce of self-certification does not establisl ification to verify compliance. See the ' 4 for more information.	h a proceeding, and	
1k What type(s) of QF	status is the applicant seeking for its fa	acility? (check all th	at apply)
imes Qualifying smal	l power production facility status	Qualifying cogene	ration facility status
<b>1</b> What is the purpos	se and expected effective date(s) of this	-	
	ation; facility expected to be installed b	· · · · · · · · · · · · · · · ·	d to begin operation on
···· ·	previously certified facility to be effectiv		
	of change(s) below, and describe chan	-	aneous section starting on page 24)
	e and/or other administrative change(s	>)	
			n 17 - Contraction
Change in ov		1	city and/or cogeneration thermal outpu
☐			
Change(s) aff	correction to a previous filing submitte	ed on	
Change(s) aff		ed on	
Change(s) aff Supplement or (describe the sup 1m If any of the follow to the extent poss	correction to a previous filing submitte pplement or correction in the Miscellar wing three statements is true, check the sible, explaining any special circumstan	ed on neous section starti e box(es) that descr ces in the Miscellar	ng on page 24) ibe your situation and complete the for eous section starting on page 24.
Change(s) aff Supplement or (describe the sup 1m If any of the follow to the extent poss The instant fac previously grad	correction to a previous filing submitte pplement or correction in the Miscellar wing three statements is true, check the sible, explaining any special circumstan	ed on neous section starti e box(es) that descr ces in the Miscellar PF requirements by ated	ng on page 24) ibe your situation and complete the for
Change(s) aff Supplement or (describe the sup 1m If any of the follow to the extent poss The instant fac previously grad orders in the M	correction to a previous filing submitte pplement or correction in the Miscellar wing three statements is true, check the sible, explaining any special circumstan- cility complies with the Commission's Q nted by the Commission in an order da	ed on neous section starti e box(es) that desci ces in the Miscellar F requirements by ated 24)	ng on page 24) ibe your situation and complete the for eous section starting on page 24. virtue of a waiver of certain regulations (specify any other relevant waiver

FEI	RC Form 556			Page 7 - All Facilities	5	
	2a Name of contact person			2b Telephone number		
	Thomas Mattson			9203934131		
	<b>2c</b> Which of the following describes	the contact person's relation	onship to the app	blicant? (check one)	1	
	Applicant (self)	oyee, owner or partner of a	pplicant authori:	zed to represent the applicant		
on	Employee of a company affiliat	ed with the applicant auth	orized to represe	ent the applicant on this matter		
ati	Lawyer, consultant, or other representative authorized to represent the applicant on this matter					
E	2d Company or organization name (				-	
ρĮ		· · · ·			1	
Contact Information	2e Street address (if same as Applica	ant, check here and skip to	line 3a}		-	
tac	146 Alpine Dr.	<i>,</i>				
ont						
Ŭ	2f City		2g State/provi	nce	-	
	Green Bay		wi			
	2h Postal code	2i Country (if not United !			-	
	54302	zi country (in not officed.	states)			
					1	
Ľ	<b>3a Facility name</b> Gregory Burke 1					
atic	<b>3b</b> Street address (if a street address	doos oot avist for the facil	ity chock hora ar	ad skip to line $3 ci \mathbf{N}$	-	
003	Duest address in a street address	dues not exist for the facil	ity, thete al			
Facility Identification and Location		600). See the "Geographic	es from degrees, c Coordinates" se	he facility in degrees (to three decimal minutes and seconds: decimal degrees = ection on page 5 for help. 99.408 degrees West (-)		
Ň	3d City (if unincorporated, check her	re and enter nearest city) [	3e State/pr	ovince		
ilit	Gregory		South D	)akota		
Fac	3f County (or check here for indeper	ndent city) 3g	Country (if not	United States)		
	Gregory					
	Identify the electric utilities that are c	ontemplated to transact w	ith the facility.			
lities	<b>4a Identify utility interconnecting w</b> Rosebud Electric Coopera					
Transacting Utilities	4b Identify utilities providing wheeli	ing service or check here if	none 🛛			
ctir	<b>4c</b> Identify utilities purchasing the us	seful electric power output	t or check here if	none		
sac	Basin Electric Cooperati				<b>W</b>	
Tran	4d Identify utilities providing supple service or check here if none	mentary power, backup po	ower, maintenan	ce power, and/or interruptible power		
	Rosebud Electric Coopera	tive				

ų.

de 11 ut di	irect ownership as of effective date or operation date: Identify all direct owners of the ercent equity interest. For each identified owner, also (1) indicate whether that owner efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding comp 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) tilities or holding companies, provide the percentage of equity interest in the facility irect owners hold at least 10 percent equity interest in the facility, then provide the re wo direct owners with the largest equity interest in the facility.	er is an ele bany, as de for owner held by th	ectric utili efined in rs which a nat owner	ty, as section are electr r. If no
	Full legal names of direct owners	Electric u hold comp	ling	lf Yes % equi intere
1) т	Chomas Mattson	Yes 🗌	No 🔀	10
2)		Yes 🗌	No 🗌	
3)		Yes	No 🗌	
4)		Yes 🗌	No 🗌	
5)		Yes	No 🗌	
6)		Yes	No 🗌	
7)		Yes 🗌	No 🗌	
8)		Yes 📃	No 🗌	
9)		Yes 📃	No 🗌	
10)		Yes 🗌	No 🗌	
5b U of 12 e0	Check here and continue in the Miscellaneous section starting on page 24 if addit pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner	pstream (i ) are elect inies, as de rovide the	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of
5b U of di 12 ec	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr	pstream (i ) are elect inies, as de rovide the	.e., indire ric utilitie efined in e percenta	ct) owne s, as section age of ries of o
5b U of di 12 ec	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.)	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section age of ries of o % equi
5b U of di 12 ec	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section age of ries of o % equi
5b U of da 11 ec ar Ch	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section age of ries of o % equi
5b U of de 12 ec ar Cf	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section age of ries of o % equi
	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section age of ries of o % equi
5b U of da 12 ec ar Ch 1) 2) 3)	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of ries of o % equi
	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of ries of o % equi
	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of ries of o % equi
[ 5b U of da 12 ec ar Ch 1) 2) 3) 4) 5) 6)	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of
	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of ries of o % equi
	pstream (i.e., indirect) ownership as of effective date or operation date: Identify all up f the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) efined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compa 262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also pr quity interest in the facility held by such owners. (Note that, because upstream owner nother, total percent equity interest reported may exceed 100 percent.) heck here if no such upstream owners exist.	pstream (i ) are elect nies, as de rovide the ers may be	.e., indire ric utilitie efined in e percenta	ct) owne s, as section ige of ries of o % equi

FERC	Form	556
------	------	-----

	<b>6</b> a	Describe the p	primary energy input: (ch	neck one ma	in cate	gory and,	if applicable,	one subcate	gory)	
		🗌 Biomass (s	pecify)	🔀 Re	enewał	ble resourc	es (specify)	🗌 Geoti	nermal	
		🗌 Land	lfill gas		🗌 Ну	dro powei	r - river	🗌 Fossil	fuel (spec	ify)
		🗌 Man	ure digester gas		🗆 Ну	dro powei	r - tidal		Coal (not	waste)
		🗌 Mur	icipal solid waste		🗌 Ну	dro powei	r-wave		Fuel oil/d	iesel
		📋 Sew	age digester gas		🗌 So	lar - photo	voltaic		Natural g	as (not waste)
		🗌 Woo	d		🗌 So	lar - therm	al	Ē	Other fos	
		🗌 Othe	er biomass (describe on	page 24)	🛛 Wi	ind			(describe	on page 24)
		🗌 Waste (spe	cify type below in line 6	b)		her renew escribe on	able resource page 24)	C Other	(describe	on page 24)
	6b	If you specifie	d "waste" as the primary	energy inpu	ut in lin	ne 6a, indic	ate the type o	of waste fuel	used: (che	ck one)
		🗌 Waste fu	el listed in 18 C.F.R. § 29	2.202(b) (spe	ecify or	ne of the fo	ollowing)			
		🗌 An	thracite culm produced	prior to July	23, 19	85				
			thracite refuse that has a non-		neat co	ontent of 6,	.000 Btu or les	ss per pound	and has a	n average
		Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more								
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has be determined to be waste by the United States Department of the Interior's Bureau of Land Ma (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, pro the applicant shows that the latter coal is an extension of that determined by BLM to be was						anagement ovided that			
Energy Input	Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by BLM or that is located on non- Federal or non-Indian lands outside of BLM's jurisdiction, provided the applicant shows that the latter is an extension of that determined by BLM to be waste									
ш		$\Box$ Lignite produced in association with the production of montan wax and lignite that becomes exposed as a result of such a mining operation						es exposed		
		🗌 Ga	seous fuels (except natu	ral gas and s	synthe	tic gas fror	n coal) (descr	ribe on page	24)	
		🗌 C.I	aste natural gas from gas F.R. § 2.400 for waste nat mpliance with 18 C.F.R. §	ural gas; inc						
		🗌 Ma	iterials that a governme	nt agency ha	as certi	fied for dis	posal by com	bustion (de	scribe on p	age 24)
		🗌 He	at from exothermic reac	tions (descr	ibe on	page 24)		Residual hea	t (describe	e on page 24)
		🗌 Us	ed rubber tires	] Plastic ma	terials	C	Refinery of	ff-gas	🗌 Petro	oleum coke
	Other waste energy input that has little or no commercial value and exists in the absence of the qua facility industry (describe in the Miscellaneous section starting on page 24; include a discussion of the lack of commercial value and existence in the absence of the qualifying facility industry)									
	6c	energy inputs	erage energy input, calc , and provide the related or any oil or natural gas f	l percentage	e of the	e total aver	age annual e	ne <mark>rg</mark> y input f		
			Fuel			erage ener specified fu		Percentage annual ener		
		Na	tural gas				0 Btu/h		G %	
		Oil	-based fuels		-		0 Btu/h		0%	
		Co	al				0 Btu/h	·	0 <b>%</b>	

Indicate the maximum gross and maximum net electric power production capacity of the facility at the delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/o 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	19,500 <b>kW</b>
<b>7b</b> Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	
7c Electrical losses in interconnection transformers	0 KV
	100 <b>kW</b>
7d Electrical losses in AC/DC conversion equipment, if any	0 <b>k</b> W
<b>7e</b> Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	0 <b>k</b> V
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	teele kM
<b>7g</b> Maximum net power production capacity = 7a - 7f	to,kodio kM

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 24.

19400 KW net generating capacity. 10 4MW turbines will be installed. The wind farm output will be collected and stepped up to 115Kv at the wind farms own substation, where 10 miles of 115Kv run to RoseBud Electric Cooperative Burke 115Kv substation.

# Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip pages 11 through 15.

	Pur wit res me froi (Pu	ond to the items on this page. Otherwise, skip pages 11 through 15. suant to 18 C.F.R. § 292.204(a), the power production capacity of any small power pro- h the power production capacity of any other small power production facilities that is purce, are owned by the same person(s) or its affiliates, and are located at the same s gawatts. To demonstrate compliance with this size limitation, or to demonstrate tha n this size limitation under the Solar, Wind, Waste, and Geothermal Power Productio b. L. 101-575, 104 Stat. 2834 (1990) <i>as amended by</i> Pub. L. 102-46, 105 Stat. 249 (1991 pugh 8f below (as applicable).	use the same energy ite, may not exceed 80 it your facility is exempt in Incentives Act of 1990
	Ele	ctric Generating Equipment	
suc		Electrical generating equipment will refer to all boilers, heat recovery steam generat mechanical equipment driving an electric generator), electrical generators, photovo fuel cell equipment and/or other primary power generation equipment used in the for gathering energy to be used in the facility. Each wind turbine on a wind farm and facility is considered electrical generating equipment because each wind turbine and independently capable of producing electric energy.	ltaic solar panels, inverters, facility, excluding equipment d each solar panel in a solar
tatio	Dis	tance	
ce with Size Limi		The distance between two facilities is to be measured from the edge of the closest elequipment for which qualification or recertification is sought to the edge of the near equipment of the other affiliated small power production qualifying facility using the affiliated small power production qualifying facility using the affiliated small power production QF located one mile or less from the instant facility be at the same site. An affiliated small power production QF located more than one from the instant facility is rebuttably presumed to be at a separate site. An affiliated located 10 miles or more from the instant facility is irrebuttably presumed to be loca	rest electrical generating e same energy resource. An / is irrebuttably presumed to mile and less than 10 miles small power production QF
Certification of Compliance with Size Limitations	equ inte coo gen nui deo Seo list info	Identify affiliated small power production QFs located less than 10 miles from the el upment of the instant facility that use the same energy resource and are held (with a erest) by any of the entities identified in lines 5a or 5b or their affiliates. Specify the la ordinates for both the applicant and the affiliate small power production QF based or herating equipment for each facility. Report coordinates in degrees (to three decimal mber for east and north or a negative number for west and south. Use the following timal degrees from degrees, minutes and seconds: decimal degrees = degrees + (min the "Geographic Coordinates" section on page 5 for help obtaining coordinates. The ded below will be automatically calculated from the reported coordinates. See <u>www.f</u> prmation on how this form calculates distance. eck here if no such facilities exist.	t least a 5 percent equity atitude and longitude in the nearest electrical I places) as a positive formula to convert to nutes/60) + (seconds/3600). e distances for each facility
		Facility locationRoot docket #Maximum net power(city or county, state)(if any)production capacityQF-kW	Common owner(s)
1		Coordinates (in degrees) and Distance (miles):	
	1)	Closest electrical generating equipment for applicant's facility:	
		Latitude Choose +/- Longitude Choose +/-	·
		Closest electrical generating equipment for affiliate's facility:	Distance
		Latitude Choose +/- Longitude Choose +/-	2 miles

Certification of Compliance with Size Limitations (continued)

	ontinued			
	Facility location (city or county, state)	Root docket # (if any)	Maximum net power production capacity	Common owner(s)
		QF -	kW	
	Coordinates (in degrees) and Distance	e (miles):		
2)	Closest electrical generating equipme	ent for applicant's	facility:	
	Latitude Choose +/-	Longitude	Choose +/-	
		, - 		
	Closest electrical generating equipme	-	- 	Distance
	Latitude Choose +/-	Longitude	Choose +/-	i. mi
	Facility location (city or county, state)	Root docket # (if any)	Maximum net power production capacity	Common owner(s)
		QF -	kW	
	Coordinates (in degrees) and Distance	(milos):	· ·	
3)	-		f= _1114	
5)	Closest electrical generating equipme Latitude Choose +/-	7	· · · · · · · · · · · · · · · · · · ·	
	Latitude Choose +/-	Longitude	Choose +/-	
	Closest electrical generating equipme	Distance		
•	Latitude Choose +/-	Longitude	Choose +/-	ç mi
	Facility location (city or county, state)	Root docket # (if any) QF -	Maximum net power production capacity kW	Common owner(s)
	Coordinates (in degrees) and Distance			
4)	Closest electrical generating equipme		facility:	
		Longitude	Choose +/-	
	Closest electrical generating equipme	-	-	Distance
	Latitude Choose +/-	Longitude	Choose +/-	ç mi
	Facility location	Root docket #	Maximum net power	
	(city or county, state)	(if any) QF -	production capacity kW	Common owner(s)
	Coordinates (in degrees) and Distance			
5)	Closest electrical generating equipme	nt for applicant's	facility:	
	Latitude Choose +/-	Longitude	Choose +/-	
	· · I	1 -	1 1	
	Closest electrical generating equipme	ent for affiliate's fa -	cility:	Distance
	Latitude Choose +/-	Longitude	Choose +/-	. mi

#### FERC Form 556

Certification of Compliance with Size Limitations (continued)

	Facility location (city or county, state)	Root docket # ) (if any)	Maximum net power production capacity	Common owner(s)
		QF -		
	Coordinates (in degrees) an	d Distance (miles):		
6)	Closest electrical generating	n equipment for applicant	's facility:	
•,		Dose +/- Longitude	Choose +/-	
	. 1	·		
	Closest electrical generating	g equipment for affiliate's	facility:	Distance
	Latitude Cho	oose +/-   Longitude	Choose +/-	¢ mi
	Facility location	Root docket #	•	
	(city or county, state	) (if any) QF -	production capacity kW	Common owner(s)
	·			
	Coordinates (in degrees) an	d Distance (miles):		
7)	Closest electrical generating	g equipment for applicant	t's facility:	
	Latitude Cho	oose +/- Longitude	Choose +/-	
	Closest electrical generating	Distance		
		pose +/- Longitude	Choose +/-	<u> </u>
	L		· · · · · · · · · · · · · · · · · · ·	
	<b>Facility location</b>	Root docket #	-	
	(city or county, state		production capacity	Common owner(s)
		QF -	kW	
	Coordinates (in degrees) an	d Distance (miles):		
8)	Closest electrical generation	g equipment for applicant	t's facility:	
	Latitude Cho	oose +/- Longitude	Choose +/-	
	Closest electrical generation	g equipment for affiliate's	facility:	Distance
	Latitude Cho	oose +/- Longitude	Choose +/-	<u> </u>
	Facility location	Root docket #	•	
	(city or county, state		production capacity	Common owner(s)
		QF -	kW	
	Coordinates (in degrees) an	d Distance (miles):		
9)	Closest electrical generation	g equipment for applicant	t's facility:	
	Latitude Ch	oose +/- Longitude	Choose +/-	
	Closest electrical generatin	g equipment for affiliate's	facility:	Distance

#### FER

-						
	Facility locatie (city or county, s		Root docket # (if any)	Maximum net power production capacity	Common ov	wner(s)
			QF -	kW		
(	Coordinates (in degree	es) and Distan	ce (miles):			
10)	Closest electrical gener	rating equipm	nent for applicant's	facility:		
	Latitude	Choose +/-	Longitude	, Choose +/-		
	Closest electrical gener	rating equinm	ent for affiliate's fa	acility:	Distan	
	Latitude	Choose +/-	Longitude	Choose +/-	Distanc	mile
oowe legre Jse th legre coord	er production QF based ees (to three decimal pl he following formula to ees + (minutes/60) + (so linates. The distances dinates. See <u>www.ferc</u>	l on the neare laces) as a pos o convert to d econds/3600) for each facili <b>.gov/QF</b> for n	est electrical genera sitive number for e lecimal degrees fro . See the "Geograp ty listed below will nore information o	ordinates for both the app ating equipment for each ast and north or a negativ im degrees, minutes and s ohic Coordinates" section be automatically calculate n how this form calculate	facility. Report coo ve number for west seconds: decimal d on page 5 for help red from the report	ordinates and sout egrees = obtaining
	osest electrical genera Latitude	Choose +/-	Longitude	Choose +/-		
Cl	osest electrical genera	ting equipme	ent for affiliate's fac	ility (degrees):	Distanc	ce
	Latitude	Choose +/-	Longitude	Choose +/-		

	8b Continued
Certification of Compliance with Size Limitations (continued)	(continued from previous page) in the same location, placed into service within 12 months of an affiliated small power production QF project's commercial operation date as specified in the power sales agreement, or sharing engineering or procurement contracts.
of Compli	8c       The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act?         Image: Continue at line 8d below)       Image: Continue at line 8d below
cation	8d Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes No
irtific	<b>8e</b> Did construction of the facility commence on or before December 31, 1999? Yes No
Ű	<b>8f</b> If you answered No in line 8e, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No
	If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 24 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility.
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.
of C Re(	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:
ion ( Use	Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed above.
cati uel	<b>9b</b> Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:
Certifi with F	Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.

# Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 16 through 18. Otherwise, skip pages 16 through 18.

to the	items on pages to through	r ra. Otherwise, skip pages to through ra.
	energy (such as heat or 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- ity, the use of reject heat from a power production process in sufficient amounts in a process 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 process production.
	<b>10a</b> What type(s) of cog	generation technology does the facility represent? (check all that apply)
	Topping-cycle	e cogeneration Bottoming-cycle cogeneration
	other requirement balance diagram d meet certain requi	Ite 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 1		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.
ene		Diagram must specify average gross electric output in kW or MW for each generator.
ق		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 24, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		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	
ıcilities	<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	Ŵ
	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?	
й С	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.	
	<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?	\$
	Yes. Provide in the Miscellaneous section starting on page 24 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.	
	No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.	
	<b>11e</b> Will electric energy from the facility be sold pursuant to section 210 of PURPA?	
	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	
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?	Ŵ
	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
<b>11h</b> Total amount of electrical, thermal, chemical and mechanical energy expected to be sold to an electric utility	MWh
<b>11i</b> Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility = 100 * 11g /(11g + 11h)	, era

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

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

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

Usefulness of Topping-Cycle Thermal Output

### Information Required for Topping-Cycle Cogeneration Facility

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

The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying 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	
17		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	
-1/		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	
0)		Select thermal host's use of thermal output	Btu/h

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

**12b** Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 24.

UL SU

	Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy input of natural gas and oil to the facility; and (B) if the total energy input of natural gas and oil to 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 13I below.				
	If you indicated in line 10a that your facility represents <i>both</i> topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13l below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system.				
	<b>13a</b> Indicate the annual average rate of useful thermal energy output made a to the host(s), net of any heat contained in condensate return or make-up wa				
	<b>13b</b> Indicate the annual average rate of net electrical energy output	er Btu/h			
lar		kW			
Topping-Cycle Operating and Efficiency Value Calculation	<b>13c</b> Multiply line 13b by 3,412 to convert from kW to Btu/h	⊖ Btu/h			
, rat	13d Indicate the annual average rate of mechanical energy output taken dire	ctly off			
Ca	of the shaft of a prime mover for purposes not directly related to power products (this value is usually zero)				
0 an	<b>13e</b> Multiply line 13d by 2,544 to convert from hp to Btu/h	hp			
cle /al		🔅 Btu/h			
	<b>13f</b> Indicate the annual average rate of energy input from natural gas and oil	Btu/h			
-bu	<b>13g</b> Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)	D(t/1)			
pir		<u> </u>			
o 🗄	<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	- u <sub>0</sub>			
<del>   </del>	13i Compliance with operating standard: Is the operating value shown in line 13g greater than or equal to 5%?				
	Yes (complies with operating standard) No (does not comply with operating standard)				
	<b>13j</b> Did installation of the facility in its current form commence on or after March 13, 1980?				
	Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205(a)(2). Demonstrate compliance with the efficiency requirement by responding to line 13k or 13l, as applicable, below.				
	No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.				
	<b>13k</b> Compliance with efficiency standard (for low operating value): If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h greater than or equal to 45%:				
	Yes (complies with efficiency standard) No (does not co	omply with efficiency standard)			
	<b>13I</b> Compliance with efficiency standard (for high operating value): If the operating value shown in line 13g is greater than or equal to 15%, then indicate below whether the efficiency value shown in line 13h is greater tha equal to 42.5%:				
	Yes (complies with efficiency standard) No (does not co	omply with efficiency standard)			
<u> </u>					

### Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 21 and 22. Otherwise, skip pages 21 and 22.

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 gualifying 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

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?

**Usefulness of Bottoming-Cycle** Thermal Output

(if Yes, describe on p. 24) 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 24 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 24.

Bottoming-Cycle Operating and

ue 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).

Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). Demonstrate compliance with the efficiency requirement by responding to lines 15b through 15h below.

No. Your facility is exempt from the efficiency standard. Skip the rest of page 22.

<b>15b</b> Indicate the annual average rate of net electrical energy output	
	kW
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	
	⊖ Btu/h
<b>15d</b> Indicate the annual average rate of mechanical energy output taken directly off	Druga
of the shaft of a prime mover for purposes not directly related to power production	
(this value is usually zero)	hp
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	
	🗇 Btu/h
15f Indicate the annual average rate of supplementary energy input from natural gas	
or oil	Btu/h
	01,071
<b>15g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	
	0 ° ° o
15h Compliance with efficiency standard: Indicate below whether the efficiency value shown in line	15g is greater
than or equal to 45%:	
Yes (complies with efficiency standard) No (does not comply with efficiency st	andard)

### 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
imes	mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 24, and
	knows its contents.

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

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

🛛 The person on whose behalf the filing is mad
--

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 24.

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

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

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

Your Signature	Your address	Date
	146 Alpine Dr	
Thomas Mattson		3,21/2023

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.

Wind turbines changed from 1.5 MW to 4 MW. The wind turbine size reduced the number of turbines from 28 1.5 MW turbines to ten 4MW turbines. The reduction in number of wind turbines has resulted in a one mile move of the GPS QF form location.