Oregon Windfarms, LLC

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VIA US MAIL

June 15, 2015

Filing Center
Oregon Public Utilities Commission
PO Box 2148
Salem. OR 97308-2148

Subject:

QF Self Certification of Benson Creek Windfarm, LLC

QF Self Certification of Durbin Creek Windfarm, LLC QF Self Certification of Jett Creek Windfarm, LLC QF Self Certification of Prospector Windfarm, LLC

Dear Sir/Madam:

On behalf of Benson Creek Windfarm, LLC, Durbin Creek Windfarm, LLC, Jett Creek Windfarm, LLC and Prospector Windfarm, LLC, QF certificates for the above-named qualifying facilities are enclosed for submittal to the Oregon Public Utilities Commission in accordance with the regulations of the Federal Energy Regulatory Commission.

Respectfully,

Oregon Windfarms, LLC

Mais Mill

Maurice Miller Manager

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

OMB Control # 1902-0075 Expiration 5/31/2013

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

1b Applicant street c/o Keating Two Watervie			
1c City		1d State/provi	ince
West Chester		PA	
1e Postal code 19380	1f Country (if not United States)		1g Telephone number 610 235-2580
1h Has the instant	facility ever previously been certified as a Q	F? Yes ⊠ N	No []
1i If yes, provide th	e docket number of the last known QF filing	g pertaining to tl	his facility: QF 12 - 180 - 000
1j Under which cer	tification process is the applicant making th	nis filing?	
Notice of self-	certification $igspace{igspace}{igspace{igspace}{igspace}} A$ w)	pplication for Co ee; see "Filing Fee	ommission certification (requires filing e" section on page 3)
QF status. A no notice of self-c	self-certification is a notice by the applicant tice of self-certification does not establish a ertification to verify compliance. See the "We e 3 for more information.	a proceeding, an	d the Commission does not review a
1k What type(s) of	QF status is the applicant seeking for its fac	ility? (check all th	nat apply)
Qualifying sm	all power production facility status 🔲 🔾	ualifying cogen	eration facility status
	ose and expected effective date(s) of this fi		
Original certif	ication; facility expected to be installed by	a	nd to begin operation on
	a previously certified facility to be effective (s) of change(s) below, and describe change		llaneous section starting on page 19)
☐ Name cha	nge and/or other administrative change(s)		
☐ Change in	ownership		
Change(s)	affecting plant equipment, fuel use, power	production capa	acity and/or cogeneration thermal output
	correction to a previous filing submitted o		
(describe the	supplement or correction in the Miscellaneo	ous section starti	ing on page 19)
	lowing three statements is true, check the bossible, explaining any special circumstance		
previously o	facility complies with the Commission's QF Iranted by the Commission in an order date e Miscellaneous section starting on page 19	ed	virtue of a walver of certain regulations (specify any other relevant walver
	facility would comply with the Commission y with this application is granted	's QF requiremer	nts if a petition for waiver submitted
employmer	facility complies with the Commission's reg t of unique or innovative technologies not tration of compliance via this form difficult	contemplated by	y the structure of this form, that make

FERC Form 556 Page 6 - All Facilities

	2a Name of contact person			2b Telephone number		
	Robert Jans			610 235-2580		
	Which of the following describes the contact person's relationship to the applicant? (check one)					
_	Applicant (self) Emplo	yee, owner or partner of a	pplicant authoriz	zed to represent the applicant		
<u>.</u>	Employee of a company affiliate	ed with the applicant auth	orized to represe	ent the applicant on this matter		
nat	Lawyer, consultant, or other rep	oresentative authorized to	represent the ap	oplicant on this matter		
orn	2d Company or organization name (if applicant is an individua	l, check here and	skip to line 2e) 🗌		
nf	Oregon International Holdi	ngs, LLC				
נד	2e Street address (if same as Applica	nt, check here and skip to	line 3a)🔀		0	
ıta						
Contact Information						
	2f City	"	2g State/provi	nce		
	2h Postal code	2i Country (if not United S	States)			
	3a Facility name					
ou	Prospector Windfarm					
ati	3b Street address (if a street address	does not exist for the facil	ity, check here a	nd skip to line 3c)⊠		
0-						
1 p						
ity Identification and Location	Geographic coordinates: If you indicated that no street address exists for your facility by checking the box in line 3b, then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal places). Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 4 for help. If you provided a street address for your facility in line 3b, then specifying the geographic coordinates below is optional.					
ıtif	☐ East (+)	•		✓ North (+)		
der	Longitude West (-)	.255 degrees	Latitude	South (-) 44.418 degrees		
×	3d City (if unincorporated, check he	re and enter nearest city)	☐ 3e State/pi	rovince		
iii.	Huntington		OR			
Facili	3f County (or check here for indepen	ndent city) 🗌 🔻 3g	Country (if not	United States)		
	Baker					
	Identify the electric utilities that are c	ontemplated to transact w	ith the facility.			
es	4a Identify utility interconnecting w	ith the facility				
<u>=</u>	Idaho Power Company					
Uti	4b Identify utilities providing wheel	ing service or check here if	none 🔀			
g			_			
ij	4c Identify utilities purchasing the u	seful electric power outpu	t or check here if	fnone [Û	
sac	Idaho Power Company			Mary states		
Transacting Utilities	4d Identify utilities providing supple	ementary power, backup p	ower, maintenar	nce power, and/or interruptible power		
Ļ	service or check here if none			,		
	Idaho Power Company					

	5a 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 ownedefined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding compact (16 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 retwo direct owners with the largest equity interest in the facility.	er is an electric utilit pany, as defined in for owners which a held by that owner equired information	sy, as section are electric . If no a for the
	Full legal names of direct owners	Electric utility or holding company	If Yes, % equity interest
	1) Oregon International Holdings, LLC	Yes No No No No No No No No No No No No No No No	96
	2)	Yes ☐ No ☐	%
	3)	Yes No	 8
	4)	Yes No	
	5)	Yes No	
	6)	Yes No	8
	7)	Yes No	00
_	8)	Yes No No	90
į	9)	Yes 🗌 No 🗌	%
rat	10)	Yes 🗌 No 🗌	- 8
Operation	Check here and continue in the Miscellaneous section starting on page 19 if addi	tional space is need	ed
Ownership and	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 own another, total percent equity interest reported may exceed 100 percent.)	anies, as defined in rovide the percenta	section age of
⅀	Check here if no such upstream owners exist. 🔀		
O	Full legal names of electric utility or holding company upstream owne	rs	% equity interest
	1)		%
	2)	A PARTIE OF THE	%
	3)		°6
	4)		 8
	5)		
	6)		%
	7)		·
	8)	The second secon	%
	9)	AND A BLOCK AND A STATE OF THE	8
	10)		
	Check here and continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section starting on page 19 if additional continue in the Miscellaneous section s	ional space is neede	ed
	5c Identify the facility operator		
	Prospector Windfarm, LLC		

	6a	Describe t	he primary energy input: (cl	neck one ma	in category and, if ap	plicable, o	ne subcategory)	
		Biomas	ss (specify)	⊠ Re	newable resources (s	specify)	Geothermal	
		<u>□</u> ι	andfill gas		☐ Hydro power - riv	/er	Fossil fuel (speci	fy)
		□ N	Manure digester gas		☐ Hydro power - tio	lai	☐ Coal (not v	waste)
		□ V	Municipal solid waste		☐ Hydro power - w	ave	☐ Fuel oil/di	esel
		□ 5	Sewage digester gas		☐ Solar - photovolt	aic	☐ Natural ga	s (not waste)
		□ V	Vood		☐ Solar - thermal		Other foss	
			Other biomass (describe on	page 19)	☑ Wind		□ (describe	on page 19)
		☐ Waste	(specify type below in line 6	b)	Other renewable (describe on pag		Other (describe	on page 19)
	6b	If you spec	cified "waste" as the primary	energy inp	ıt in line 6a, indicate	the type of	f waste fuel used: (che	ck one)
		☐ Wast	e fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecify one of the follov	ving)		
			Anthracite culm produced	prior to July	23, 1985			
			Anthracite refuse that has ash content of 45 percent		neat content of 6,000	Btu or less	s per pound and has ar	n average
			Bituminous coal refuse tha average ash content of 25			9,500 Btu _l	per pound or less and	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 Department o or non-Indian lands	f the Interi outside of	or's Bureau of Land Ma BLM's jurisdiction, pro	anagement vided that
Energy Input			Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by the BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste					
Ш	as a result of such a mining operation Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)						es exposed	
							be on page 19)	
			Waste natural gas from ga C.F.R. § 2.400 for waste nat compliance with 18 C.F.R.	tural gas; inc				
		. \square	Materials that a governme	nt agency h	s certified for dispos	al by comb	oustion (descrîbe on p	age 19)
			Heat from exothermic read	tions (descr	be on page 19)	□ R	lesidual heat (describe	on page 19)
			Used rubber tires] Plastic ma	terials 🔲 R	efinery off	-gas 🗌 Petro	oleum coke
		☐ facilit	r waste energy input that he by industry (describe in the l of commercial value and ex	Miscellaneou	ıs section starting on	page 19; i	nclude a discussion of	
	6с	energy inp	e average energy input, calo outs, and provide the related J. For any oil or natural gas t	d percentage	of the total average	annual en	ergy input to the facili	
			- 1		nual average energy		Percentage of total	
			Fuel Natural gas	inp	ut for specified fuel		annual energy input	
			Oil-based fuels		TATELLIA CONTROL CONTR	Btu/h	0 %	
			Coal			Btu/h	0 %	
					0	Btu/h	0 %	

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

7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	10,000 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	
reported parasitie station power.	10 kW
7c Electrical losses in interconnection transformers	_
	111.6 kW
7d Electrical losses in AC/DC conversion equipment, if any	•
	0 kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection	
with the utility	182.1 kW
7f Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	
	303.7 kW
7g Maximum net power production capacity = 7a - 7f	
	9,696.3 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 wind-powered facility will consist of 4, 5 or 6 wind turbines with a combined nameplate rated capacity of 10 MW on monopole towers with concrete foundations.

Interconnection Facilities: The facility includes under or above ground feeders at 34.5 kV site voltage transformed to transmission voltage of 69 kV at an onsite substation jointly owned and shared on a prorated capacity basis with an unaffiliated QF. The project will then be interconnected to Idaho Power Company's system using a 69 kV interconnection line jointly owned and shared on a prorated capacity basis with the unaffiliated QF. The project also anticipates there being a related shared facilities agreement. The interconnection facilities are included in the self-certified QF.



Information Required for Small Power Production Facility

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

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

1 4,10 1 4,111 000

Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

	energy (such as heat or use of energy. Pursuant cycle cogeneration facil 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 toppingity, 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. § contoming-cycle cogeneration facility, the use of at least some reject heat from a thermal proposer production.
	10a What type(s) of cog	generation technology does the facility represent? (check all that apply)
	Topping-cycl	e cogeneration Bottoming-cycle cogeneration
	other requirement balance diagram d meet certain requi	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 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.
gener	, and the second	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.
Ů		Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output.
		At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/ (lb*R) or 4.195 kJ/(kg*K).
		Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine.
		Diagram must specify working fluid flow conditions at delivery to and return from each thermal application.
		Diagram must specify working fluid flow conditions at make-up water inputs.

	EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.	
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	Û
	11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No	Û
aν	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.	
ntal Us acilitie	11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?	
mel n F	Yes (continue at line 11d below)	
Fundaı ıeratio	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.	
for l ogen	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?	
ements 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.	
EPAct 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities	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 F y O	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	
t 20 nerg	Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.	
EPAc of El	No. Applicant certifies that energy will not be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) before selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.	
	11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?	į.
	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		MWI
11h Total amount of electrical, thermal, chemical and mechanical energy expected to be		
sold to an electric utility		MW
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	%
= 100 Hg/(Hg + HH)	1	70

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

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

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

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



equal to 42.5%:

Yes (complies with efficiency standard)

orm 556	Page 15 - Topping	Cycle Cogeneration Facilities	
cycle operative regulations the useful the (18 C.F.R. § 2 installation of thermal energacility; and be no less the compliance	or facilities representing topping-cycle technology must demonstrate coming standard and, if applicable, efficiency standard. Section 292.205(a)(1) of 18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cyclermal energy output must be no less than 5 percent of the total energy of 192.205(a)(2)) establishes the efficiency standard for topping-cycle cogener commenced on or after March 13, 1980: the useful power output of the facing output must (A) be no less than 42.5 percent of the total energy input of the useful thermal energy output is less than 15 percent of the total enan 45 percent of the total energy input of natural gas and oil to the facility with the topping-cycle operating and/or efficiency standards, or to demonant the efficiency standard based on the date that installation commenced, respectively.	of the Commission's ycle cogeneration facilities: htput. Section 292.205(a)(2) ation facilities for which cility plus one-half the useful of natural gas and oil to the nergy output of the facility, . To demonstrate istrate that your facility is	
technology, attributable which mass cogeneratio	The state of the s	inputs and outputs diagram must make clear	
	e the annual average rate of useful thermal energy output made available	D. 4	
), net of any heat contained in condensate return or make-up water	Btu/h	
(3b Indicat	e the annual average rate of net electrical energy output	kW	
	y line 13b by 3,412 to convert from kW to Btu/h	0 Btu/h	
of the shaft	e the annual average rate of mechanical energy output taken directly off of a prime mover for purposes not directly related to power production usually zero)	hp	
13e Multip	ly line 13d by 2,544 to convert from hp to Btu/h		
13f Indicate	the annual average rate of energy input from natural gas and oil	0 Btu/h	
13g Toppin	g-cycle operating value = 100 * 13a / (13a + 13c + 13e)		
		0 %	
13h Toppii	ng-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	0 %	•
13i Compli	ance with operating standard: Is the operating value shown in line 13g gre	***************************************	
	s (complies with operating standard) No (does not comply with	-	
13j Did inst	allation of the facility in its current form commence on or after March 13, 1	980?	
└── com	Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.20: pliance with the efficiency requirement by responding to line 13k or 13l, a Your facility is exempt from the efficiency standard. Skip lines 13k and 13l	s applicable, below.	
inned.			
	ance with efficiency standard (for low operating value): If the operating value indicate below whether the efficiency value shown in line 13h greater		
☐ Ye	es (complies with efficiency standard) No (does not comply wi	th efficiency standard)	

13I Compliance with efficiency standard (for high operating value): If the operating value shown in line 13g is greater than or equal to 15%, then indicate below whether the efficiency value shown in line 13h is greater than or

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.

	whice the cycle at le	ch at least some of the reject heat Commission's regulations (18 C.F. e cogeneration facility must be us ast some of the reject heat is used Identify and describe each therm	ming-cycle cogeneration facility is the energy related is then used for power production. Pursuant to see a.R. § 292.202(c) and (e)), the thermal energy output seful. In connection with this requirement, described for power production by responding to lines 14a and host and each bottoming-cycle cogeneration prottoming-cycle cogeneration prottoming-cycle cogeneration processes, provide the Thermal host's relationship to facility; Thermal host's process type	ctions 292.202(c) and (e) of of a qualifying bottoming- the process(es) from which and 14b below. ocess engaged in by each			
	1)		Select thermal host's relationship to facility	Yes No			
	''		Select thermal host's process type				
υ	2)		Select thermal host's relationship to facility	Yes No			
χd	2)		Select thermal host's process type	3			
Ų.	3)		Select thermal host's relationship to facility	Yes No			
E E	رد		Select thermal host's process type				
Et b		Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed					
Usefulness of Bottoming-Cycle Thermal Output	ider facil mus add prev facil to th chai	ntified above. In some cases, this lity's process is not common, and/ et provide additional details as ne- itional information may be require viously received a Commission ce ity, then you need only provide a ne order certifying your facility wi	thermal output: At a minimum, provide a brief description is sufficient to demonstrate useful for if the usefulness of such thermal output is not recessary to demonstrate usefulness. Your applicationed if an insufficient showing of usefulness is made. Interest of the strategies of	ness. However, if your easonably clear, then you in may be rejected and/or (Exception: If you have ocess related to the instant of date and docket number be used if any material			

than or equal to 45%:

Yes (complies with efficiency standard)

rm 556 Page 17 - Bottomin	g-Cycle Cogeneration Facilities
Applicants for facilities representing bottoming-cycle technology and for which insta March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency state the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency stands cogeneration facilities: the useful power output of the facility must be no less than 40 of natural gas and oil for supplementary firing. To demonstrate compliance with the standard (if applicable), or to demonstrate that your facility is exempt from this stand installation of the facility began, respond to lines 15a through 15h below.	andards. Section 292.205(b) of ard for bottoming-cycle percent of the energy input bottoming-cycle efficiency
If you indicated in line 10a that your facility represents both topping-cycle and bottor technology, then respond to lines 15a through 15h below considering only the energy attributable to the bottoming-cycle portion of your facility. Your mass and heat balan which mass and energy flow values and system components are for which portion of (topping or bottoming).	y inputs and outputs nce diagram must make clear
15a Did installation of the facility in its current form commence on or after March 13, Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.20 with the efficiency requirement by responding to lines 15b through 15h belo No. Your facility is exempt from the efficiency standard. Skip the rest of page	5(b). Demonstrate compliance w.
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
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 (this value is usually zero)	hp
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	0 Btu/h
15f Indicate the annual average rate of supplementary energy input from natural ga or oil	
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	3

15h Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater

No (does not comply with 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.

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

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

⊠ H	cnows its contents.			
□ to	le or she has provided all of the o the best of his or her knowled	required information for certification, and the provid ge and belief.	ded information is true as stated,	
⊠ P	He or she possess full power and Practice and Procedure (18 C.F.R	authority to sign the filing; as required by Rule 2005 $\$$ 385.2005(a)(3)), he or she is one of the following: (a	(a)(3) of the Commission's Rules of check one)	
	The person on whose be	half the filing is made		
	An officer of the corpora	tion, trust, association, or other organized group on b	oehalf of which the filing is made	
	An officer, agent, or emp	loye of the governmental authority, agency, or instru	umentality on behalf of which the	
		d to practice before the Commission under Rule 210 ^o 18 C.F.R. § 385.2101) and who possesses authority to		
\boxtimes_{N}^{\vdash}	He or she has reviewed all auton Miscellaneous section starting o	natic calculations and agrees with their results, unless n page 19.	s otherwise noted in the	
rovid roce epres	facility and those utilities reside. Doage 3 for more information. Doage 3 for more information.	nes 4a through 4d), as well as to the regulatory authors. See the Required Notice to Public Utilities and State signature date below. Rule 2005(c) of the Commission ovides that persons filing their documents electronic the filed documents. A person filing this document e	Regulatory Authorities section on on's Rules of Practice and cally may use typed characters	
vning	o nis or ner name) in the space i	provided below.		
	g his or her name) in the space pour Signature	Your address	Date	
Yo			Date 2/19/2013	
Yo	our Signature	Your address Two Waterview Road, Suite E-11		

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Miscellaneous

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

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

This amendment is to change the location of the facility. The geographic coordinates in Section 3c are changed from the original certification.