Oct 19 2016



E. Merrick Parrott Associate Direct Line: 919.835.4504 Direct Fax: 919.835.4561 merrickparrott@parkerpoe.com Atlanta, GA Charleston, SC Charlotte, NC Columbia, SC Greenville, SC Raleigh, NC Spartanburg, SC

October 19, 2016

#### **VIA ELECTRONIC FILING**

Paige Morris Deputy Clerk North Carolina Utilities Commission 430 N. Salisbury Street Raleigh, North Carolina 27603

Re: Runway Farm, LLC's Form 556; Docket No. SP-5250, Sub 0

Dear Clerk Morris:

Enclosed for filing is the self-certification Form 556 for Runway Farm, LLC in the above-referenced docket. Runway Farm, LLC makes this filing pursuant to 18 C.F.R. § 292.207(c)(1).

Thank you for your assistance with this matter. Please let me know if you have any questions.

Sincerely,

/s/ E. Merrick Parrott

Enclosure

cc: Duke Energy Progress

PPAB 3446588v1

#### FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

<b>a</b> Full name of applicant (legal entity on whose behalf qualifying facility status is sought for this facility) Runway Farm, LLC					
	<b>b</b> Applicant street address 50101 Governors Drive, Suite 280				
<b>1c City</b> Chapel Hill		1d State/prov	ince		
<b>1e</b> Postal code 27517	<b>1f</b> Country (if not United States)	<b>I</b>	<b>1g</b> Telephone number 919–960–6015		
<b>1h</b> Has the instant	facility ever previously been certified as a	QF? Yes 🗌 I	No 🛛		
<b>1i</b> If yes, provide th	e docket number of the last known QF fili	ng pertaining to t	his facility: QF		
<b>1j</b> Under which cer	tification process is the applicant making	this filing?			
Notice of self- (see note belo	,		ommission certification (requires filing e" section on page 3)		
Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 3 for more information.					
<ul> <li>What type(s) of QF status is the applicant seeking for its facility? (check all that apply)</li> <li>Qualifying small power production facility status</li> </ul>					
11 What is the purp	ose and expected effective date(s) of this	filing?			
🔀 Original certif	ication; facility expected to be installed by	y <u>4/14/17</u> a	and to begin operation on $4/28/17$		
	a previously certified facility to be effectiv				
	(s) of change(s) below, and describe char		llaneous section starting on page 19)		
	nge and/or other administrative change(s	5)			
	ownership	ar production can	acity and/or cogeneration thermal output		
			acity unator cogeneration thermal output		
Sama a c	Supplement or correction to a previous filing submitted on (describe the supplement or correction in the Miscellaneous section starting on page 19)				
1m If any of the following three statements is true, check the box(es) that describe your situation and complete the form to the extent possible, explaining any special circumstances in the Miscellaneous section starting on page 19.					
🖵 previously g	facility complies with the Commission's Q ranted by the Commission in an order da Miscellaneous section starting on page	ated	y virtue of a waiver of certain regulations (specify any other relevant waiver		
	facility would comply with the Commissio y with this application is granted	on's QF requireme	nts if a petition for waiver submitted		
🗌 🗌 employmer	facility complies with the Commission's re t of unique or innovative technologies no tration of compliance via this form difficu	ot contemplated b	by the structure of this form, that make		

Contact Information	<b>2a</b> Name of contact person			2b Telephone r	number	
	Katherine E. Ross			919-835-40		1
	<b>2c</b> Which of the following describes	the contact person's re	elationship to the ap	plicant? (check or	ne)	1
		oyee, owner or partner ted with the applicant a	of applicant author authorized to repres	ized to represent ent the applicant	the applicant on this matter	
	<b>2d</b> Company or organization name Parker Poe Adams & Bernste		idual, check here an	d skip to line 2e)[		
DNTACT II	<b>2e</b> Street address (if same as Applica 301 Fayetteville Street,		p to line 3a)			
ر	<b>2f</b> City Raleigh		<b>2g</b> State/prov NC	ince		
	<b>2h</b> Postal code 27601	2i Country (if not Uni	ted States)			
u	<b>3a</b> Facility name Runway					
Locatio	<b>3b</b> Street address (if a street addres	s does not exist for the	facility, check here	and skip to line 3c		
cification and Locati	<b>3c</b> Geographic coordinates: If you i then you must specify the latitue the following formula to conver degrees + (minutes/60) + (secor provided a street address for you	ndicated that no street de and longitude coord t to decimal degrees fro nds/3600). See the "Ge	address exists for y dinates of the facility om degrees, minute eographic Coordina	our facility by che / in degrees (to th s and seconds: de tes" section on pa ographic coordina	cking the box in line 3b, ree decimal places). Use ecimal degrees = ge 4 for help. If you ates below is optional.	
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FERC Form 556

	defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding comp 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) utilities or holding companies, provide the percentage of equity interest in the facility direct owners hold at least 10 percent equity interest in the facility, then provide the re two direct owners with the largest equity interest in the facility.	er is an elect pany, as def for owners held by tha equired info	ined in s which a t owner. ormation	y, as ection re electric If no for the
	Full legal names of direct owners	Electric ut holdir compa	ng	If Yes, % equity interest
1	) Runway Farm, LLC	Yes 🔲 🛛	No 🛛	ę
2		Yes 📃 🛛	No 🗌	Q
3		Yes 📃 🛛	No 🗌	<u></u> ş
4		Yes 📃 🛛	No 🗌	9
5		Yes 🗌	No 🗌	
6		Yes 🗌	No 🗌	
7		Yes 🗌	No 🗌	
8		Yes 🗌	No 🗌	
9		Yes	No 🗌	
1	0)	Yes 🗌	No 🗌	
9 1	Check here and continue in the Miscellaneous section starting on page 19 if addi	tional space	is need	ed
•				section
	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.)	rovide the p ers may be s	percenta	ge of
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FER	C Fo	orm 556						Page 8	- All Facilities
	ба	Describe th	ne primary energy input: (ch	eck one m	ain category and	l, if applicable,	one subcatege	ory)	
		Biomas	s (specify)	🔀 R	enewable resou	rces (specify)	🗌 Geothe	ermal	
			andfill gas		🔲 Hydro pow	er - river	🗌 Fossil f	uel (specif	fy)
			1anure digester gas		🔲 Hydro pow	er - tidal		Coal (not v	vaste)
		□ N	Iunicipal solid waste		🔲 Hydro pow	er - wave	🗍 F	uel oil/die	esel
		🗆 S	ewage digester gas		🛛 Solar - pho	tovoltaic		√atural ga	s (not waste)
		□ v	Vood		Solar - ther	mal		Other fossi	il fuel on page 19)
			)ther biomass (describe on	page 19)	U Wind				
			specify type below in line 6		(describe c	wable resource n page 19)			on page 19)
	6b	If you spec	ified "waste" as the primary	energy inp	out in line 6a, inc	licate the type	of waste fuel ι	ised: (cheo	ck one)
		🗌 Waste	e fuel listed in 18 C.F.R. § 292	2.202(b) (sp	ecify one of the	following)			
			Anthracite culm produced						
			Anthracite refuse that has a ash content of 45 percent of		heat content of	6,000 Btu or le	ss per pound a	and has ar	n average
			Bituminous coal refuse tha average ash content of 25			ent of 9,500 Btu	i per pound o	r less and l	has an
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has bee determined to be waste by the United States Department of the Interior's Bureau of Land Man (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provi the applicant shows that the latter coal is an extension of that determined by BLM to be waste							anagement wided that	
Energy Input	Coal refuse produced on Federal lands or on Indian lands that has been determined to be w BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, pro- applicant shows that the latter is an extension of that determined by BLM to be waste						aste by the vided that		
Ē	Lignite produced in association with the production of montan wax and lignite that becomes exp as a result of such a mining operation							es exposed	
			Gaseous fuels (except natu	ıral gas anc	l synthetic gas fr	om coal) (desc	ribe on page 1	9)	
			Waste natural gas from gas C.F.R. § 2.400 for waste nat compliance with 18 C.F.R.	tural gas; in § 2.400)	clude with your	filing any mate	erials necessar	y to demo	onstrate
			Materials that a governme	nt agency l	has certified for	disposal by con	nbustion (des	cribe on p	age 19)
			Heat from exothermic read	tions (desc	ribe on page 19	)	Residual heat	(describe	on page 19)
			Used rubber tires	] Plastic m	aterials	🔲 Refinery o	ff-gas	Petro	oleum coke
	Other waste energy input that has little or no commercial value and exists in th facility industry (describe in the Miscellaneous section starting on page 19; inc lack of commercial value and existence in the absence of the qualifying facility							cussion of	the fuel's
	6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following foss energy inputs, and provide the related percentage of the total average annual energy input to the facility (12 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).						g fossil fuel ity (18 C.F.R. §		
			Fuel		nnual average er put for specified		Percentage annual ener <u>c</u>		
			Natural gas			0 Btu/h		0 %	
			Oil-based fuels			0 Btu/h		0 %	
			Coal			0 Btu/h		0 %	

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ERC Form 556	Page 9 - All Facilities
Indicate the maximum gross and maximum net electric power production capacity of the facility at t delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/o lines 7b through 7e are negligible, enter zero for those lines.	he point(s) of or losses identified in
<b>7a</b> The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	5,000 <b>kW</b>
<b>7b</b> Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	o kW
7c Electrical losses in interconnection transformers	12,5 <b>kW</b>
7d Electrical losses in AC/DC conversion equipment, if any	0 <b>kW</b>
<b>7e</b> Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	12.5 <b>kW</b>
<b>7f</b> Total deductions from gross power production capacity = $7b + 7c + 7d + 7e$	25.0 kW
<b>7g</b> Maximum net power production capacity = 7a - 7f	4,975.0 kW

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

The facility is a solar photovoltaic array consisting of approximately 70,000 100Wp PV modules (or equivalent) affixed to ground mounted racks supported on driven piles. The system will utilize 6 800kW inverters (or equivalent).

### Information Required for Small Power Production Facility

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

•	Pursuant to 18 C.F.R. § 292.204(a), th with the power production capacity resource, are owned by the same per megawatts. To demonstrate compl from this size limitation under the S (Pub. L. 101-575, 104 Stat. 2834 (199 through 8e below (as applicable).	of any other small p erson(s) or its affiliate iance with this size l olar, Wind, Waste, ar	power production facilities that use es, and are located at the same site imitation, or to demonstrate that y nd Geothermal Power Production I	e the same energy e, may not exceed 80 your facility is exempt ncentives Act of 1990		
	<b>8a</b> Identify any facilities with electrequipment of the instant facility, an at least a 5 percent equity interest.	d for which any of th	pment located within 1 mile of the ne entities identified in lines 5a or 5	e electrical generating 5b, or their affiliates, holds		
nce	Check here if no such facilities exist.	Root docket #		Maximum net power		
olia	Facility location (city or county, state)	(if any)	Common owner(s)	production capacity		
Certification of Compliance with Size Limitations	1)Warren County, NC	QF <u>13</u> - 7	Strata Solar, LLC	20,000 kW		
mit C	2)	QF		kW		
e Lii	3)	QF -		kW		
ior Jize	$\Box$ Check here and continue in the	e Miscellaneous sect	ion starting on page 19 if addition	al space is needed		
Ce	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					
	8d Did construction of the facility commence on or before December 31, 1999? Yes No					
	<b>8e</b> If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility.					
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), c amounts, for only the following pur prevention of unanticipated equipr the public health, safety, or welfare used for these purposes may not ex period beginning with the date the	poses: ignition; star nent outages; and a , which would result cceed 25 percent of f	t-up; testing; flame stabilization; co lleviation or prevention of emerge from electric power outages. The the total energy input of the facilit;	ontrol use; alleviation or ncies, directly affecting amount of fossil fuels y during the 12-month		
of C Rec	<b>9a</b> Certification of compliance with	18 C.F.R. § 292.204	b) with respect to uses of fossil fue	21:		
on c Jse	Applicant certifies that the	facility will use fossil	fuels <i>exclusively</i> for the purposes l	isted above.		
atic el L	<b>9b</b> Certification of compliance with	18 C.F.R. § 292.204	(b) with respect to amount of fossi	l fuel used annually:		
Certification o with Fuel Use	Applicant certifies that the	amount of fossil fuel input of the facility o	used at the facility will not, in agg during the 12-month period begin	regate, exceed 25		

# Information Required for Cogeneration Facility

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

		energy (such as heat or s use of energy. Pursuant cycle cogeneration facilit thermal application or pr 292.205(a); or (2) for a bo application or process fo <b>10a</b> What type(s) of coge	eneration technology does the facility represent? (check all that apply) cogeneration Bottoming-cycle cogeneration
		other requirements balance diagram de meet certain require	e the sequential operation of the cogeneration process, and to support compliance with such as the operating and efficiency standards, include with your filing a mass and heat picting average annual operating conditions. This diagram must include certain items and ements, as described below. You must check next to the description of each requirement t you have complied with these requirements.
		Check to certify compliance with	
		indicated requirement	Requirement
ration	c		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	latio		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.
ט			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/ (Ib*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.
1			Diagram must specify working fluid flow conditions at make-up water inputs.

EPAct 2005 Requirements for Fundamental Use

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	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.	OFFICIAL
	<b>11a</b> Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	0
	<b>11b</b> Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No	08
S	If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.	19 20
acilitie	<b>11c</b> With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?	িই
n Fa	Yes (continue at line 11d below)	
eration	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.	
ogen	<b>11d</b> Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?	0
rom 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.	
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.	
Ō	<b>11e</b> Will electric energy from the facility be sold pursuant to section 210 of PURPA?	0
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.	
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?	Ø
	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
<ul> <li>11i Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility</li> <li>= 100 * 11g /(11g + 11h)</li> </ul>	0 %

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

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

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

Usefulness of Topping-Cycle Thermal Output

### Information Required for Topping-Cycle Cogeneration Facility

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

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

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

	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	
1)		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
2)		Select thermal host's use of thermal output	Btu/h
2)		Select thermal host's relationship to facility	
3)		Select thermal host's use of thermal output	Btu/h
		Select thermal host's relationship to facility	
4)		Select thermal host's use of thermal output	Btu/h
<i>e</i> \		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

**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.

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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, be no less than 45 percent of the total energy standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below.

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

cogeneration system	
<b>13a</b> Indicate the annual average rate of useful thermal energy output made available to the host(s), net of any heat contained in condensate return or make-up water	Btu/ł
13b Indicate the annual average rate of net electrical energy output	kW
<b>13c</b> Multiply line 13b by 3,412 to convert from kW to Btu/h	0 Btu/h
<b>13d</b> Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production	
(this value is usually zero)	hp
<b>13e</b> Multiply line 13d by 2,544 to convert from hp to Btu/h	0 Btu/ł
13f Indicate the annual average rate of energy input from natural gas and oil	Btu/ŀ
<b>13g</b> Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)	0 %
<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	0 %
13i Compliance with operating standard: Is the operating value shown in line 13g greater	

Topping-Cycle Operating and Efficiency Value Calculation

<b>13f</b> Indicate the annual average rate of energy input from hatural gas and oil	Btu/ł
<b>13g</b> Topping-cycle operating value = 100 * 13a / (13a + 13c + 13e)	0 %
<b>13h</b> Topping-cycle efficiency value = 100 * (0.5*13a + 13c + 13e) / 13f	0 %
13i Compliance with operating standard: Is the operating value shown in line 13g gre	ater than or equal to 5%?
Yes (complies with operating standard) No (does not comply with	th operating standard)
<b>13j</b> Did installation of the facility in its current form commence on or after March 13, 1	
Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205 compliance with the efficiency requirement by responding to line 13k or 13l, as	5(a)(2). Demonstrate s 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 than 15%, then indicate below whether the efficiency value shown in line 13h greater t	
Yes (complies with efficiency standard)	th efficiency standard)
<b>13I</b> Compliance with efficiency standard (for high operating value): If the operating vagreater than or equal to 15%, then indicate below whether the efficiency value shown equal to 42.5%:	alue shown in line 13g is in line 13h is greater than or

Yes (complies with efficiency standard) No (does not comply with efficiency standard)

## Information Required for Bottoming-Cycle Cogeneration Facility

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

The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)) , the thermal energy output of a qualifying 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

the thermal host been augmented for purposes

	which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	of increasing power production capacity? (if Yes, describe on p. 19)
1)	water	Select thermal host's relationship to facility	Yes No
1)		Select thermal host's process type	
2)		Select thermal host's relationship to facility	Yes No
		Select thermal host's process type	Environi Environi
3)		Select thermal host's relationship to facility	Yes No
		Select thermal host's process type	hannad hannad

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

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

Bottoming-Cycle Operating and

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

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

15a	<b>Did installation</b>	of the facilit	in its current form commence on or after March 13	, 1980?
-----	-------------------------	----------------	---	---------

<b>15a</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 requirement of with the efficiency requirement by responding to lines 15b	f 18 C.F.R. § 292.205(b). Demonstrate compliand ) through 15h below.			
No. Your facility is exempt from the efficiency standard. Sk	kip the rest of page 17.			
<b>15b</b> Indicate the annual average rate of net electrical energy output	ut kW			
<b>15c</b> Multiply line 15b by 3,412 to convert from kW to Btu/h	o Btu/			
<b>15d</b> Indicate the annual average rate of mechanical energy output of the shaft of a prime mover for purposes not directly related to po (this value is usually zero)	t taken directly off ower production hp			
<b>15e</b> Multiply line 15d by 2,544 to convert from hp to Btu/h	0 Btu			
<b>15f</b> Indicate the annual average rate of supplementary energy inp or oil	out from natural gas Btu/			
<b>15g</b> Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 %			
15h Compliance with efficiency standard: Indicate below whether	with a officient structure showing in line 1Eg is greater			

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### Certificate of Completeness, Accuracy and Authority

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

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

He or she has read the filing, including any information contained in any attached documents, such as cogeneration mass and heat balance diagrams, and any information contained in the Miscellaneous section starting on page 19, and knows its contents.

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

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

☐ The person on whose behalf the filing is made

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

- An officer, agent, or employe of the governmental authority, agency, or instrumentality on behalf of which the filing is made
- A representative qualified to practice before the Commission under Rule 2101 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2101) and who possesses authority to sign
- He or she has reviewed all automatic calculations and agrees with their results, unless otherwise noted in the Miscellaneous section starting on page 19.

He or she has provided a copy of this Form 556 and all attachments to the utilities with which the facility will interconnect and transact (see lines 4a through 4d), as well as to the regulatory authorities of the states in which the

facility and those utilities reside. See the Required Notice to Public Utilities and State Regulatory Authorities section on page 3 for more information.

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

Your Signature	Your address	Date	
	301 Fayetteville Street, Ste. 1400		
Katherine E. Ross	Raleigh, NC 27601	10/18/2016	

Audit Notes			
Commission Staff Use Only:	 ,	and and the second s	

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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.

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