May 26 2015



Katherine E. Ross Associate Telephone: 919.835.4671 Direct Fax: 919.835.4561 katherineross@parkerpoe.com Charleston, SC Charlotte, NC Columbia, SC Spartanburg, SC

May 26, 2015

VIA ELECTRONIC FILING

Gail L. Mount Chief Clerk North Carolina Utilities Commission 430 N. Salisbury Street Raleigh, North Carolina 27603

Re: Bullock Solar, LLC's Form 556; Docket No. SP-5339, Sub 0

Dear Chief Clerk:

Enclosed for filing is the self-certification Form 556 for Bullock Solar, LLC in the above-referenced docket. Bullock Solar, 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/ Katherine E. Ross

Enclosure

cc: Duke Energy Progress

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC

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

1a Full name of appli Bullock Solar,	icant (legal entity on whose behalf qualify , LLC	ying facility statu	s is sought for this facility)		
1b Applicant street a 3250 Ocean Par Suite 355					
1c City Santa Monica		1d State/prov CA	ince		
1e Postal code 90405	1f Country (if not United States)		1g Telephone number (310) 581-6299		
1h Has the instant fa	cility ever previously been certified as a C	QF? Yes 🗌 🛚	No 🛛		
1i If yes, provide the	docket number of the last known QF filin	ng pertaining to t	his facility: QF		
1j Under which certi	fication process is the applicant making t	his filing?			
Notice of self-ce (see note below	ertification	Application for Co fee; see "Filing Fe	ommission certification (requires filing e" section on page 3)		
QF status. A noti notice of self-cer	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.				
Ik What type(s) of QF status is the applicant seeking for its facility? (check all that apply)					
******			eration facility status		
	II What is the purpose and expected effective date(s) of this filing?				
Original certific	ation; facility expected to be installed by	<u>12/15/16</u> a	and to begin operation on $12/30/16$		
hannand -	 Original certification; facility expected to be installed by <u>12/15/16</u> and to begin operation on <u>12/30/16</u> Change(s) to a previously certified facility to be effective on				
🔲 Name chang	ge and/or other administrative change(s)				
📋 Change in o	wnership				
🗌 Change(s) a	Change(s) affecting plant equipment, fuel use, power production capacity and/or cogeneration thermal output				
Supplement or correction to a previous filing submitted on (describe the supplement or correction in the Miscellaneous section starting on page 19)					
to the extent pos	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 gra	icility complies with the Commission's QF anted by the Commission in an order dat Miscellaneous section starting on page 1	ed	v virtue of a waiver of certain regulations (specify any other relevant waiver		
orders in the Miscellaneous section starting on page 19) The instant facility would comply with the Commission's QF requirements if a petition for waiver submitted					
	with this application is granted				

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FE	RC Form 556				Page 6 - All Facilities	5
	2a Name of contact person			2b Telephone	number	
Contact Information	Katherine E. Ross			(919) 835	5-4671	
	2c Which of the following describes	the contact person's relation	onship to the ap	plicant? (check c	one)	
	- · · · · · · · · · · · · · · · · · · ·	oyee, owner or partner of a				
	Employee of a company affiliat					
	\square Lawyer, consultant, or other rej					-
ũ						-
<u>ک</u>		2d Company or organization name (if applicant is an individual, check here and skip to line 2e)				
gt	2e Street address (if same as Applica	int, check here and skip to	line 3a)			V
ntă	301 Fayetteville Street Suite 1400					
ပိ			r.			- ·
-	2f City		2g State/prov	/ince		
	Raleigh		NC			_
	2h Postal code	2i Country (if not United	States)			
	27601					_
	3a Facility name					
b	Bullock					
ati	3b Street address (if a street address	does not exist for the faci	lity, check here a	and skip to line 3	c)🛛	6
Ö,	A					
ц Т		. ·				
itification and Location	3c Geographic coordinates: If you in then you must specify the latitud the following formula to convert degrees + (minutes/60) + (secon provided a street address for you	le and longitude coordina to decimal degrees from o ds/3600). See the "Geogr Ir facility in line 3b, then sp	tes of the facility degrees, minute aphic Coordinat	y in degrees (to tl is and seconds: c tes" section on pa	nree decimal places). Use lecimal degrees = age 4 for help. If you lates below is optional.	
Facility lden	$\square \text{ Longitude } \boxed{[]{1000}} \text{ West (-) } = \frac{78}{2}$.314 degrees	Latitude	South (-) —	36.476 degrees	_
<u>></u>	3d City (if unincorporated, check he	re and enter nearest city) [province		
Ē	Manson		NC			
ă	3f County (or check here for indepe	ndent city) 🗌 3g	Country (if no	ot United States)		0
	Vance					<u> </u>
	Identify the electric utilities that are contemplated to transact with the facility.				_	
ties	4a Identify utility interconnecting with the facility					
	Duke Energy Progress			-		
ы Б	4b Identify utilities providing wheel	ing service or check here i	fnone 🛛			Ø
tin	4c Identify utilities purchasing the u	seful electric power outpu	It or check here	if none 🗍		
Transacting Utilities	Duke Energy Progress	• • •	· · ·			
đ	4d Identify utilities providing supple	ementary power, backup r	ower, maintena	ance nower, and/	or interruptible power	E.
Ë	service or check here if none				o, witch of many from a	U

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FERC Form 556

Page 7 - All Facilities

utilities or holding companies, provide the percentage of equity interest direct owners hold at least 10 percent equity interest in the facility, then two direct owners with the largest equity interest in the facility.	in the facility held by the provide the required in	rs which a nat owner formatior	r. If no n for the
two uncer owners with the largest equity interest in the lating?	Electric		lf Yes,
	hold	-	% equity
Full legal names of direct owners	com		interest
1) Bullock Solar, LLC	Yes 🗌	No 🔀	
2)	Yes 🗌	No 🗌	%
3)	Yes 🗌	No 🗌	<u> </u>
4)	Yes 🗌	No 🗌	o
5)		No 🗌	<u> </u>
6)		No 🗌	%
7)	¥ []	No 🗌	9
8)	V . 🗖	No 🗌	8
9)	V	No 🗍	
10)	Yes 🗌	No 🗔	 8
 Check here and continue in the Miscellaneous section starting on pa 5b Upstream (i.e., indirect) ownership as of effective date or operation date: of the facility that both (1) hold at least 10 percent equity interest in the defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or h 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 164) equity interest in the facility held by such owners. (Note that, because up to the facility held by such owners). 	: Identify all upstream (facility, and (2) are elect olding companies, as d 51(8)). Also provide the	i.e., indire tric utilitie efined in e percenta	ect) owners es, as section age of
 5b Upstream (i.e., indirect) ownership as of effective date or operation date: of the facility that both (1) hold at least 10 percent equity interest in the defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or h 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 164) equity interest in the facility held by such owners. (Note that, because u another, total percent equity interest reported may exceed 100 percent.) 	: Identify all upstream (facility, and (2) are elect olding companies, as d 51(8)). Also provide the pstream owners may be	i.e., indire tric utilitie efined in e percenta	ect) owners es, as section age of
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FEF	FERC Form 556 Page 8 - All Facilitie				
	6a Describe the primary energy input: (check one r	nain category and, if applicable, o	ne subcategory)		
	🗌 Biomass (specify)	Renewable resources (specify)	Geothermal		
	🔲 Landfill gas	Hydro power - river	Fossil fuel (specify)		
	Manure digester gas	Hydro power - tidal	Coal (not waste)		
	Municipal solid waste	Hydro power - wave	Fuel oil/diesel		
	Sewage digester gas	🛛 Solar - photovoltaic	Natural gas (not waste)		
	☐ Wood	🔲 Solar - thermal	Other fossil fuel		
	Other biomass (describe on page 19)	U Wind	└── (describe on page 19)		
	Waste (specify type below in line 6b)	Other renewable resource (describe on page 19)	Other (describe on page 19)		
	6b If you specified "waste" as the primary energy in	put in line 6a, indicate the type of	f waste fuel used: (check one)		
	🗍 Waste fuel listed in 18 C.F.R. § 292.202(b) (specify one of the following)			
	Anthracite culm produced prior to Junctic prior and prior to Junctic prior and prior to Junctic prior and prior a	uly 23, 1985			
	Anthracite refuse that has an averag ash content of 45 percent or more	e heat content of 6,000 Btu or less	s per pound and has an average		
	Bituminous coal refuse that has an a a a a a a a a a a a a a a a a a	-	per pound or less and has an		
nput	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Management (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that the applicant shows that the latter coal is an extension of that determined by BLM to be waste				
Energy Input	Coal refuse produced on Federal lan BLM or that is located on non- Feder applicant shows that the latter is an	al or non-Indian lands outside of I	BLM's jurisdiction, provided that		
Ū	Lignite produced in association with as a result of such a mining operatio		nd lignite that becomes exposed		
	Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)				
	Waste natural gas from gas or oil we C.F.R. § 2.400 for waste natural gas; i compliance with 18 C.F.R. § 2.400)				
	Materials that a government agency	has certified for disposal by comb	oustion (describe on page 19)		
	Heat from exothermic reactions (des	cribe on page 19) 🛛 🗌 R	esidual heat (describe on page 19)		
	🗌 Used rubber tires 🛛 🗌 Plastic r	naterials 🛛 🗌 Refinery off	-gas 🔲 Petroleum coke		
	Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)				
	6c Provide the average energy input, calculated on energy inputs, and provide the related percenta 292.202(j)). For any oil or natural gas fuel, use lo	ige of the total average annual en	ergy input to the facility (18 C.F.R. §		
			Percentage of total		
	Fuel in Natural gas		annual energy input		
	Oil-based fuels	0 Btu/h 0 Btu/h	0 %		
	Coal	0 Btu/h	0 %		
		0.0(0/11	<u> </u>		

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50,000 kW

250 kW

0 kW

0 kW

1,250.0 kW

48,750.0 kW

1,000 kW

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FERC Form 556

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.

7aThe maximum gross power production capacity at the terminals of the individual generator(s)
under the most favorable anticipated design conditions7bParasitic station power used at the facility to run equipment which is necessary and integral to
the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings
directly related to the operation of the power generating facility, etc.). If this facility includes non-
power production processes (for instance, power consumed by a cogeneration facility's thermal
host), do not include any power consumed by the non-power production activities in your
reported parasitic station power.

7c Electrical losses in interconnection transformers

7d Electrical losses in AC/DC conversion equipment, if any

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

7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e

7g Maximum net power production capacity = 7a - 7f

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 will consist of approximately 233,320 300Wp photovoltaic modules (or equivalent) affixed to ground mounted racks supported on driven piles. The system will utilize 60 833kW 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), the power production capacity of any small power producti with the power production capacity of any other small power production facilities that use the resource, are owned by the same person(s) or its affiliates, and are located at the same site, ma megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Ince (Pub. L. 101-575, 104 Stat. 2834 (1990) <i>as amended by</i> Pub. L. 102-46, 105 Stat. 249 (1991)), resp through 8e below (as applicable).	e same energy ay not exceed 80 facility is exempt ntives Act of 1990		
	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 at least a 5 percent equity interest.	ectrical generating or their affiliates, holds		
JCe	Check here if no such facilities exist. 🔀			
pliar ons	Facility locationRoot docket #(city or county, state)(if any)Common owner(s)	Maximum net power production capacity		
ml	1) QF	kW		
	2) QF	kW		
l of	3) QF -	kW		
tior	Check here and continue in the Miscellaneous section starting on page 19 if additional sp	pace is needed		
Certification of Compliance with Size Limitations	8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were cert Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Immuno Yes (continue at line 8c below) No (skip lines 8c through 8e)	ified prior to 1995.		
	8c Was the original notice of self-certification or application for Commission certification of the before December 31, 1994? Yes No	he facility filed on or		
	8d Did construction of the facility commence on or before December 31, 1999? Yes N	o 📋		
	8e If you answered No in line 8d, indicate whether reasonable diligence was exercised towar the facility, taking into account all factors relevant to construction? Yes No If you a a brief narrative explanation in the Miscellaneous section starting on page 19 of the construct particular, describe why construction started so long after the facility was certified) and the di toward completion of the facility.	nswered Yes, provide ion timeline (in		
Certification of Compliance with Fuel Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil f amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; contr prevention of unanticipated equipment outages; and alleviation or prevention of emergencies the public health, safety, or welfare, which would result from electric power outages. The amoused for these purposes may not exceed 25 percent of the total energy input of the facility du period beginning with the date the facility first produces electric energy or any calendar year	ol use; alleviation or s, directly affecting ount of fossil fuels ring the 12-month		
of C Rec	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:			
on Use	Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed	above.		
cati	9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fue	l 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 facility first produces electric energy or any calendar year thereafter.				

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Information Required for Cogeneration Facility

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

	energy (such as heat or s use of energy. Pursuant cycle cogeneration facili thermal application or p	92.202(c), a cogeneration facility produces electric energy and forms of useful thermal steam) used for industrial, commercial, heating, or cooling purposes, through the sequential to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping-ty, the use of reject heat from a power production process in sufficient amounts in a rocess to conform to the requirements of the operating standard contained in 18 C.F.R. § pottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal strong power production.	0
	-	eneration technology does the facility represent? (check all that apply)	0
	10b To help demonstra other requirements balance diagram de meet certain requir	e cogeneration Determing-cycle cogeneration 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.	0
	Check to certify compliance with indicated requirement	Requirement	
ration 1		Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process.	
gene		Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation.	
General Cogeneration Information		Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values.	
iene		Diagram must specify average gross electric output in kW or MW for each generator.	
6		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.	

FERC For	rm 556 Page 12 - Cogeneration Facilities		Б
	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 COP
	11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No	0	
	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	0	2015
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.		May 26 2015
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?	0	May
mei n Fa	Yes (continue at line 11d below)		
2005 Requirements for Fundamental Use ergy Output from Cogeneration Facilities	No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.		
s for oger	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?	0	
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.		
Require utput 1	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 I y O	11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?	0	
V	\square Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.		
EPAct of En	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.		
,	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?	0	
	Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.		
	No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.		

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EPAct 2005 Requirements for Fundamental Use

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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 gualifying 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). of Energy Output from Cogeneration Facilities (continued) Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes. Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). 11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal generation plant losses and parasitic loads) expected to be used annually for industrial, commercial, residential or institutional purposes and not sold to an electric utility MWh 11h Total amount of electrical, thermal, chemical and mechanical energy expected to be sold to an electric utility MWh 11i Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility = 100 * 11g /(11g + 11h) 0 % 11j Is the response in line 11i greater than or equal to 50 percent? Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the

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

Usefulness of Topping-Cycle Thermal Output

Information Required for Topping-Cycle Cogeneration Facility

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

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

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

	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
C \		Select thermal host's relationship to facility	
5)		Select thermal host's use of thermal output	Btu/h
0		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.

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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 compliance with the topping-cycle operating and/or efficiency standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below.

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

cogeneration system.	
13a Indicate the annual average rate of useful thermal energy output made available to the host(s), net of any heat contained in condensate return or make-up water	Btu/ł
13b Indicate the annual average rate of net electrical energy output	Dtari
ISD Indicate the annual average rate of het electrical energy output	kW
13c Multiply line 13b by 3,412 to convert from kW to Btu/h	0.04.14
	0 Btu/ł
13d Indicate the annual average rate of mechanical energy output taken directly off	
of the shaft of a prime mover for purposes not directly related to power production	
(this value is usually zero)	hp
13e Multiply line 13d by 2,544 to convert from hp to Btu/h	
	0 Btu/ł
13f Indicate the annual average rate of energy input from natural gas and oil	
	Btu/ł
13g Topping-cycle operating value = $100 \times 13a / (13a + 13c + 13e)$	
	0%
13h 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 great	er than or equal to 5%?
Yes (complies with operating standard) In the operation of the operation o	operating standard)
13j Did installation of the facility in its current form commence on or after March 13, 198	0?
\Box Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205(a compliance with the efficiency requirement by responding to line 13k or 13l, as a	
No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l.	
13k Compliance with efficiency standard (for low operating value): If the operating valu than 15%, then indicate below whether the efficiency value shown in line 13h greater that	
	efficiency standard)

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

Information Required for Bottoming-Cycle Cogeneration Facility

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

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

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

	Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production	Thermal host's relationship to facility; Thermal host's process type	the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19)
、	· · · · · · · · · · · · · · · · · · ·	Select thermal host's relationship to facility	Yes No No
)		Select thermal host's process type	
١		Select thermal host's relationship to facility	Yes No

Usefulness of Bottoming-Cycle Fhermal Output

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rejeo	production	Thermal host's process type	(if Yes, describe on p.
1)		Select thermal host's relationship to facility	Yes No
1)	1	Select thermal host's process type	۲۶ Lauren) - -
2)	1	Select thermal host's relationship to facility	Yes No
2)		Select thermal host's process type	· • • • • • • • • • • • • • • • • • • •
		Select thermal host's relationship to facility	Yes No No
3)		Select thermal host's process type	Laura Laura
[] Ch	eck here and continue in the	e Miscellaneous section starting on page 19 if ad	lditional 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.

FERC Form 556

Bottoming-Cycle Operating and

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

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

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

15a 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 18 C.F.R. § 292.205(b). Demonstrate compliance with the efficiency requirement by responding to lines 15b through 15h below.						
No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.						
15b Indicate the annual average rate of net electrical energy output	kV					
15c Multiply line 15b by 3,412 to convert from kW to Btu/h	0 Bt					
15d Indicate the annual average rate of mechanical energy output taken directly o of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero)	f hr					
15e Multiply line 15d by 2,544 to convert from hp to Btu/h	0 Bt					
15f Indicate the annual average rate of supplementary energy input from natural g or oil	as Bt					
15g Bottoming-cycle efficiency value = 100 * (15c + 15e) / 15f	0 %					
15h Compliance with efficiency standard: Indicate below whether the efficiency v	lue shown in line 15g is grea					

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
Х	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

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, St. 1400	
Katherine E. Ross	Raleigh, NC 27601	5/22/2015

Audit Notes

Commission Staff Use Only:

Miscellaneous

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

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