

400 West Main, Suite 503 Durham, NC 27701 919-682-6822 www.carolinasolarenergy.com

21 April 2014

RE:

Submission of FERC Form 556

SP-2363, Sub 8 (Hardison Farm)

Chief Clerk North Carolina Utilities Commission Mail Service Center 4325 Raleigh NC 27699-4325

Dear Ms. Mount:

Attached please find the FERC Form 556 for Hardison Farm, in support of our applications under this docket.

Thank you in advance for your assistance with this application.

Sincerely,

Carson Harkrader Cell: 518-728-5926

Email: charkrader@carolinasolarenergy.com

FERC Acceptance for Filing in QF14-478-000

eFiling@ferc.gov <eFiling@ferc.gov>

Thu, Apr 17, 2014 at 8:50 AM

To: charkrader@carolinasolarenergy.com, efilingacceptance@ferc.gov

Acceptance for Filing

The FERC Office of the Secretary has accepted the following electronic submission for filing (Acceptance for filing does not constitute approval of any application or self-certifying notice):

-Accession No.: 201404175027 -Docket(s) No.: QF14-478-000

-Filed By: Carolina Solar Energy II, LLC

-Signed By: Gerald Dudzik

-Filing Type: Qualifying Facility Application or PURPA Energy Utility Filing

-Filing Desc: Form 556 of Carolina Solar Energy II, LLC [Hardison Farm] under QF14-478.

-Submission Date/Time: 4/16/2014 5:10:47 PM

-Filed Date: 4/17/2014 8:30:00 AM

Your submission is now part of the record for the above Docket(s) and available in FERC's eLibrary system at:

http://elibrary.ferc.gov/idmws/file_list.asp?accession_num=20140417-5027

If you would like to receive e-mail notification when additional documents are added to the above docket(s), you can eSubscribe by docket at:

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Thank you again for using the FERC Electronic Filing System. If you need to contact us for any reason:

E-Mail: efiling@ferc.gov mailto:efiling@ferc.gov (do not send filings to this address)

Voice Mail: 202-502-8258.

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

1b Applicant street add 400 W Main St,							
1c City	c City 1d State/province						
Durham		NC					
1e Postal code 27701	1f Country (if not United States)		1g Telephone number 919–682–6822				
1h Has the instant facili	ty ever previously been certified as a QI	? Yes N	o 🛛				
1i If yes, provide the do	cket number of the last known QF filing	pertaining to th	is facility: QF -	-			
1j Under which certifica	tion process is the applicant making th	is filing?					
Notice of self-certing (see note below)	fication A	oplication for Co e; see "Filing Fee	mmission certification (re " section on page 3)	equires filing			
QF status. A notice notice of self-certific	ertification is a notice by the applicant of self-certification does not establish a cation to verify compliance. See the "Wor more information.	proceeding, and	d the Commission does n	ot review a			
1k What type(s) of QF s	tatus is the applicant seeking for its faci	lity? (check all th	at apply)				
✓ Qualifying small p	ower production facility status Q	ualifying cogene	ration facility status				
	and expected effective date(s) of this fil						
Original certification; facility expected to be installed by $\frac{12/31/14}{}$ and to begin operation on $\frac{12/31/14}{}$							
Change(s) to a previously certified facility to be effective on (identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 10)							
(identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 19) Name change and/or other administrative change(s)							
Change in own				}			
_	cting plant equipment, fuel use, power	production capa	city and/or cogeneration	thermal outpu			
	rection to a previous filing submitted or		,				
tement	lement or correction in the Miscellaneo		ng on page 19)				
	ng three statements is true, check the b le, explaining any special circumstance						
The instant facility complies with the Commission's QF requirements by virtue of a waiver of certain regulations previously granted by the Commission in an order dated (specify any other relevant waiver orders in the Miscellaneous section starting on page 19)							
	ty would comply with the Commission' h this application is granted	s QF requiremen	ts if a petition for waiver	submitted			
employment of	ty complies with the Commission's regularique or innovative technologies not conform difficult	ontemplated by	the structure of this form	n, that make			

	2a Name of contact person	2b Telephone number					
	Ms. Carson Harkrader	919-682-6822					
	Which of the following describes the contact person's relationship to the applicant? (check one)						
	Applicant (self) Employee, owner or partner of applicant authorized to represent the applicant						
ion	Employee of a company affiliated with the applicant authorized to represent the applicant on this matter						
Jat	Lawyer, consultant, or other representative authorized to represent the applicant on this matter						
form	2d Company or organization name (if applicant is an individual, check here and skip to line 2e) Carolina Solar Energy II, LLC						
t	2e Street address (if same as Applicant, check here and skip to line 3a) ✓						
Employee of a company affiliated with the applicant authorized to represent the applicant on this matter Lawyer, consultant, or other representative authorized to represent the applicant on this matter 2d Company or organization name (if applicant is an individual, check here and skip to line 2e) Carolina Solar Energy II, LLC 2e Street address (if same as Applicant, check here and skip to line 3a)							
0	2f City 2g State/prov	ince					
	2h Postal code 2i Country (if not United States)						
_	3a Facility name						
io	Hardison Farm	200 2 La contrata de					
G	3b Street address (if a street address does not exist for the facility, check here a	and skip to line 3c)	0				
2	19919 US Highway 64 Williamston NC 27892						
pu							
Facility Identification and Location	Geographic coordinates: If you indicated that no street address exists for your facility by checking the box in line 3b, then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal places). Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 4 for help. If you provided a street address for your facility in line 3b, then specifying the geographic coordinates below is optional.						
entil	Longitude East (+) West (-) degrees Latitude	☐ North (+)degrees					
b/	3d City (if unincorporated, check here and enter nearest city) 3e State/p						
ĬĘ,	Williamston						
-ac	3f County (or check here for independent city) 3g Country (if no	t United States)	69				
_	Martin		~				
i i	Identify the electric utilities that are contemplated to transact with the facility.		<i>i</i> .				
ties	4a Identify utility interconnecting with the facility Dominion North Carolina Power						
Ξ			-				
ا ق	4b Identify utilities providing wheeling service or check here if none		U				
tir	4c Identify utilities purchasing the useful electric power output or check here	fnone	-				
Sac	Dominion North Carolina Power		-				
Transacting Utilities	dd Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none						

	a Direct ownership as of effective date or operation date: Identify all direct owners of the facility holding at least 10 percent equity interest. For each identified owner, also (1) indicate whether that owner is an electric utility, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) for owners which are electric utilities or holding companies, provide the percentage of equity interest in the facility held by that owner. If no						
	direct owners hold at least 10 percent equity interest in the facility, then provide the re	equired inforn	nation	for the			
	two direct owners with the largest equity interest in the facility.						
		Electric utilit holding	y or	If Yes, % equity			
	Full legal names of direct owners	company	,	interest			
1)	Carolina Solar Energy II, LLC	Yes No	X				
2)		Yes No					
3)		Yes No					
4)		Yes No					
5)		Yes No					
6)		Yes No					
7)		Yes No					
8)		Yes No					
9)		Yes No					
10	0)	Yes No					
	Check here and continue in the Miscellaneous section starting on page 19 if addit	tional space is	need	ed			
	Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all upof the facility that both (1) hold at least 10 percent equity interest in the facility, and (2 defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding compared to 1262(8) of the Public Utility Holding Company Act (10 U.S.C. 16451(8)). Also provide in the facility holding to the public Utility Holding Company Act (10 U.S.C. 16451(8)).) are electric u anies, as defin rovide the per	itilitie ed in s centa	s, as section ge of			
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						1.6 1.11	1		
	6a Describe the primary energy input: (check one main category and, if applicable, one subcategory)								
		_	s (specify)	⊠ R		ources (specify)	Geothermal		
		_	andfill gas			wer - river	Fossil fuel (s		
		_	Manure digester gas			wer - tidal	_	not waste)	
			Municipal solid waste			wer - wave		il/diesel	
		S	sewage digester gas		⊠ Solar - pl			al gas (not waste)	
		_	Vood		☐ Solar - th	ermal		fossil fuel ibe on page 19)	
			Other biomass (describe on	page 19)	☐ Wind				
			(specify type below in line 6		(describe	newable resource on page 19)		ibe on page 19)	
	6b	If you spec	cified "waste" as the primary	energy inp	ut in line 6a, i	ndicate the type o	of waste fuel used:	(check one)	
		Wast	e fuel listed in 18 C.F.R. § 29	2.202(b) (sp	ecify one of t	ne fo ll owing)			
			Anthracite culm produced	prior to Jul	y 23, 1985			1	
		Anthracite refuse that has an average heat content of 6,000 Btu or less per pound and has an average ash content of 45 percent or more							
		Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more							
nput			Top or bottom subbituming determined to be waste by (BLM) or that is located on the applicant shows that the state of the	the United non-Federa	l States Depar al or non-India	tment of the Inte in lands outside o	rior's Bureau of Lan of BLM's jurisdiction	d Management , provided that	
Energy Input			Coal refuse produced on F BLM or that is located on r applicant shows that the la	on- Federa	l or non-India	n lands outside of	BLM's jurisdiction,		
Ш			Lignite produced in associ as a result of such a mining		he production	of montan wax	and lignite that bed	omes exposed	
			Gaseous fuels (except natu	ıral gas and	synthetic gas	from coal) (desci	ribe on page 19)		
			Waste natural gas from ga C.F.R. § 2.400 for waste na compliance with 18 C.F.R.	tural gas; in					
			Materials that a governme	nt agency h	nas certified fo	r disposal by com	bustion (describe	on page 19)	
			Heat from exothermic read	tions (desc	ribe on page	19)	Residual heat (desc	cribe on page 19)	
			Used rubber tires] Plastic m	aterials	☐ Refinery of	ff-gas 🔲 F	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)								
	6с	energy inp	e average energy input, calo outs, and provide the relate). For any oil or natural gas	d percentag	ge of the total	average annual e	nergy input to the		
					nual average		Percentage of total		
			Fuel Natural gas	in	put for specifi		annual energy inp		
			Oil-based fuels			0 Btu/h	0		
			Coal			0 Btu/h		%	
						0 Btu/h	0	%	

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

7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	6,250 k	ζW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power.	0 k	κW
7c Electrical losses in interconnection transformers	80 k	ζVV
7d Electrical losses in AC/DC conversion equipment, if any	0 k	۷V
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	80 k	κVν
7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	160.0 k	κVv
7g Maximum net power production capacity = 7a - 7f	6,090.0 k	κV/

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 4.99MWac (6.25MWdc) Photovoltaic Generator will be located on approximately 40 acres of land at 19919 US Highway 64, near the town of Williamston in Martin County, NC. The generator will have a security fence and will operate without personnel on site.

The Hardison Farm 4.99MWac Solar Photovoltaic Generator system is a ground mounted solar facility consisting of approximately 21,660 x 300 Watt Polycrystalline solar collectors, mounted upon racking, utilizing 6 x 750 kw inverters, and balance of system including high voltage transformers, wiring, combiner boxes and disconnects, and PV System remote monitoring.



Certification of Compliance with Size Limitations

Information Required for Small Power Production Facility

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

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) as amended by Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable).

8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest.

Check here if no such facilities exist.

Facility location (city or county, state)			Common owner(s)	Maximum net power production capacity
	QF	-		kW
	QF	-		kW
184	QF	-		kW
		(city or county, state) QF QF		(city or county, state) (if any) Common owner(s) QF - QF -

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

8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act?

(continue	at line 8c	below)
	s (continue a	s (continue at line 8c

No (skip lines 8c through 8e)

8c Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes No

8d Did construction of the facility commence on or before December 31, 1999? Yes No

8e If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No 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.

Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.

- 9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:
 - Applicant certifies that the facility will use fossil fuels exclusively for the purposes listed above.
- 9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:
 - Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.

Certification of Compliance with Fuel Use Requirements

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. Form rejected by the Secretary of the Commission	ns with incomplete Certificates of Completeness, Acon.	curacy and Authority will be:
Signer identified below certifies the follow	ing: (check all items and applicable subitems)	
	any information contained in any attached docum any information contained in the Miscellaneous se	
He or she has provided all of the requi to the best of his or her knowledge an	red information for certification, and the provided d belief.	information is true as stated,
He or she possess full power and auth Practice and Procedure (18 C.F.R. § 38.	ority to sign the filing; as required by Rule 2005(a)(3 5.2005(a)(3)), he or she is one of the following: (che	3) of the Commission's Rules of ck one)
☐ The person on whose behalf t	he filing is made	
An officer of the corporation, t	trust, association, or other organized group on beha	alf of which the filing is made
An officer, agent, or employe of filing is made	of the governmental authority, agency, or instrume	ntality on behalf of which the
A representative qualified to procedure (18 C.F.	oractice before the Commission under Rule 2101 of F.R. § 385.2101) and who possesses authority to sign	the Commission's Rules of n
He or she has reviewed all automatic of Miscellaneous section starting on pag	calculations and agrees with their results, unless other 19.	nerwise noted in the
interconnect and transact (see lines 48 facility and those utilities reside. See to page 3 for more information.	Form 556 and all attachments to the utilities with was through 4d), as well as to the regulatory authorities the Required Notice to Public Utilities and State Regulates and Regulates and State Regulates and State Regulates and Regul	es of the states in which the gulatory Authorities section on
	es that persons filing their documents electronically led documents. A person filing this document elect ded below.	
Your Signature	Your address	Date
3	Carolina Solar Energy, 400 W Main	
Gerry T. Dudzik	Street, Suite 503, Durham NC 27701	4/16/2014
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.