

# Broad Energy Solutions, LLC

OFFICIAL COPY

Sep 09 2015

September 9, 2015

Ms. Gail Mount, Chief Clerk  
N. C. Utilities Commission, 5<sup>th</sup> Floor  
430 North Salisbury Street  
Raleigh, NC 27603-5918

Re: SP-1874, Sub 0, Resubmission of Report of Proposed Construction

Dear Ms. Mount,

Prestage AgEnergy of NC, LLC (Prestage AgEnergy) is developing a poultry litter fueled cogeneration facility in Clinton, NC with commissioning expected in December 2015. The Docket Number for this project is SP-1874, Sub 0.

On June 18, 2012, a request was submitted to withdraw a Report of Proposed Construction for this project because the facility was expected to have a capacity in excess of 2 MW. The final design of the project approved for construction has less than 2 MW of generation capacity. As such, we are submitting a new Report of Proposed Construction.

I am an authorized agent for Prestage AgEnergy of NC, LLC for the purposes of registration and reporting to the N.C. Utility Commission. Please contact me if you have any questions regarding this facility.

Thank you for your help.

Sincerely,



Sam McLamb

Principal

CC: Michael Pope, Prestage AgEnergy of NC, LLC  
Jay Lucas, NC Utility Commission Public Staff

**North Carolina Utilities Commission****Report of Proposed Construction (RPC)**

[Building an electric generating facility in North Carolina with an alternating current capacity of less than 2 MW or an electric generating facility primarily for your own use per Commission Rule R8-65.]

You may file this report electronically; please see <http://www.ncuc.net/electronicfiling.html> for instructions. If you file a paper version, you must file the original plus 6 copies. The mailing address is:

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

Exhibits required by Rule R8-65(g)		Applicant's Response
(1)	Full and correct name of the owner of the facility	Prestage AgEnergy of NC, LLC
	Facility name	Prestage Moltonville Cogeneration
	Business address	PO Box 438; 4651 Taylors Bridge Hwy; Clinton, NC 28329
	E-mail address	mpope@prestagefarms.com
	Telephone number	(910) 596-5758
	The owner is (check one)	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation
	If a corporation, the state and date of incorporation	North Carolina Corporation formed in December 2011.
	If a partnership, the name and address of each general partner (add additional sheets if necessary)	
	Owner's agent for purposes of this report, if applicable:	Broad Energy Solutions, LLC
	Agent's business address	825-C Merrimon Avenue; #377 Asheville, NC 28804
	Agent's e-mail address	smclamb@broadenergysolutions.com

	Agent's telephone number	(828) 667-0730
	The full and correct name of the site owner and, if the site owner is other than the applicant, the applicant's legal interest in the site	Prestage Farms, Inc. is the site owner. Prestage AgEnergy of NC, LLC has leased the project site from Prestage Farms, Inc.
(2)	Attach a color map or aerial photo showing the location of the generating facility site in relation to local highways, streets, rivers, streams, and other generally known local landmarks. A U.S. Geological Survey map or an aerial photo map prepared via the State's geographic information system (found at <a href="http://gis.ncdcr.gov/hpoweb/">http://gis.ncdcr.gov/hpoweb/</a> ) is preferred.	
	E911 street address of the proposed facility	735 Moltonville Road, Clinton, NC 28328
	County in which the proposed facility will be physically located	Sampson County
	GPS coordinates of the approximate center of the proposed facility site to the nearest second or one thousandth of a degree	34 59.258' N 78 15.306' W
(3)	The nature of the facility, including its technology, and the source of its power and fuel(s)	See Attachment B.
	A description of the buildings, structures and equipment comprising the generating facility and the manner of its operation	See Attachment B.
	The gross and net generating capacity of each unit and the entire facility in megawatts – Alternating Current	The turbine generators include a 250 kW backpressure turbine, a 400 kW backpressure turbine, and a 960 kW backpressure turbine. Maximum combined electric generation is 1,610 kW. The maximum estimated parasitic load is 500 kW.
	The projected date on which the facility will come on line	01/31/2016
	The applicant's general plan for sale of the electricity to be generated, including the name of utility to which the applicant plans to sell the electricity	Prestage AgEnergy will pursue an interconnection agreement under a "sell excess" structure to sell to Duke Energy Progress net electricity generated in excess of parasitic load.
	The service life of the project	40 years

	The projected annual sales in kilowatt-hours	8,880,000
	Whether the applicant intends to produce renewable energy certificates that are eligible for compliance with the State's renewable energy and energy efficiency portfolio standard <input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No	
(4)	The expected cost of the proposed facility	\$ <i>Confidential</i>
<b>Confidentiality</b> If an applicant considers certain of the required information above to be confidential and entitled to protection from public disclosure, it may designate said information as confidential and file it under seal. Documents marked as confidential will be treated pursuant to applicable Commission rules, procedures, and orders dealing with filings made under seal and with nondisclosure agreements. The applicant must also file a public version with the confidential information redacted.		
All reports shall be signed and verified (notarized) by the applicant or by an individual duly authorized to act on behalf of the applicant for the purpose of the report. A blank verification page is attached below:		

**OFFICIAL COPY**

## Sep 09 2015



## Sep 09 2015



**OFFICIAL COPY**

Local Satellite Image



## **Attachment B. Facility Information, Prestage Moltonville Cogeneration**

**3a)** The facility will be co-located with a feed mill and turkey operations owned by Prestage Farms, Inc., and will utilize only poultry litter for power generation. The facility consists of poultry litter handling equipment, a sub-stoichiometric gasification boiler, emissions control equipment, and three turbine generators.

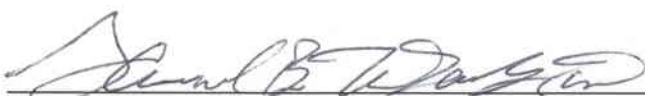
**3b)** This renewable energy facility includes a fuel receiving building and a boiler and ancillary equipment building. The boiler building includes fuel handling equipment, a fuel dryer utilizing flue gases from the boiler, fuel storage, emissions equipment, and a control room.

Litter is delivered to the fuel receiving building, conveyed into the drying system and dried fuel is sent directly to the boiler while excess dried fuel is stored.

The boiler will utilize the dried poultry litter to create superheated steam at high pressure. All of this steam goes through a backpressure turbine, generating up 960 kW of electricity. Part of the exhausted steam is used for high pressure processes while the remainder goes through a set of lower pressure backpressure turbines and used for low pressure processes.

Any steam that passes through Btu meters for purposes of generating and recording RECs is used for various processes which are unrelated to fuel processing for this facility. Some processes return condensate to the boiler, and Btus from this condensate will be metered and netted out from the gross number of Btu's provided to processes.



VERIFICATIONSTATE OF North Carolina COUNTY OF Buncombe

Signature of Owner's Representative or Agent

Principal

Title of Representative or Agent

Samuel B. McLamb III

Typed or Printed Name of Representative or Agent

The above named person personally appeared before me this day and, being first duly sworn, says that the facts stated in the foregoing report and any exhibits, documents, and statements thereto attached are true as he or she believes.

WITNESS my hand and notarial seal, this 9th day of September, 2015:My Commission Expires: 01/30/2018

Signature of Notary Public

Susannah L. Haskell

Name of Notary Public – Typed or Printed

Susannah L. Haskell  
Notary Public  
Buncombe County, NC

This original verification must be affixed to the original report, and a copy of this verification must be affixed to each of the copies that are also submitted to the Commission.