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January 6, 2014

Rhode Island Public Utilities Commission
Attn: Luly E. Massaro, Commission Clerk
89 Jefferson Blvd.
Warwick, RI 02888

Re: RI-RES Certification
Maplehurst Farm

Dear Ms. Massaro:

I enclose herewith the following:

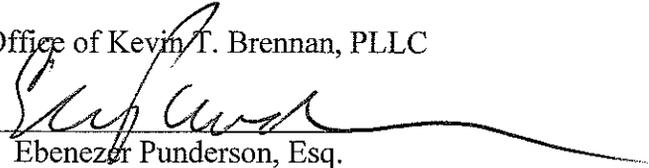
1. One original and three copies of Renewable Energy Resources Eligibility Form with applicable appendices and all supporting documentation, being filed on behalf of Maplehurst Farm of Greensboro, Vermont.

This is also to confirm I have sent electronic copies of the above to the Commission at RES@puc.ri.gov.

Please note that while I am an attorney admitted to practice in the State of Vermont, I do not intend to enter an appearance with regard to these applications. I am submitting these on behalf of my Vermont clients only as a convenience to them. If you need follow-up information or have any questions, you may either contact me at the above address and email, or you may contact the authorized representatives of each of the applicants.

Sincerely,

Law Office of Kevin T. Brennan, PLLC

By: 
Ebenezer Punderson, Esq.

cc: clients

1317 Davis Road, P.O. Box 8, Monkton, Vermont 05469
Phone (802) 453-8400 Fax (802) 453-8411

RECEIVED
2014 JAN 8 PM 4:22
PUBLIC UTILITIES COMMISSION

RIPUC Use Only	
Date Application Received:	___/___/___
Date Review Completed:	___/___/___
Date Commission Action:	___/___/___
Date Commission Approved:	___/___/___

GIS Certification #: _____

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM
The Standard Application Form
Required of all Applicants for Certification of Eligibility of Renewable Energy Resource
(Version 8 – December 5, 2012)

STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION
Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

RECEIVED
 2014 JAN 28 PM 4: 22
 PUBLIC UTILITIES COMMISSION

NOTICE:
 When completing this Renewable Energy Resources Eligibility Form and any applicable Appendices, please refer to the State of Rhode Island and Providence Plantations Public Utilities Commission Rules and Regulations Governing the Implementation of a Renewable Energy Standard (RES Regulations, Effective Date: January 1, 2006), and the associated RES Certification Filing Methodology Guide. All applicable regulations, procedures and guidelines are available on the Commission's web site: www.ripuc.org/utilityinfo/res.html. Also, all filings must be in conformance with the Commission's Rules of Practice and Procedure, in particular, Rule 1.5, or its successor regulation, entitled "Formal Requirements as to Filings."

- Please complete the Renewable Energy Resources Eligibility Form and Appendices using a typewriter or black ink.
 - Please submit one original and three copies of the completed Application Form, applicable Appendices and all supporting documentation to the Commission at the following address:
 Rhode Island Public Utilities Commission
 Attn: Luly E. Massaro, Commission Clerk
 89 Jefferson Blvd
 Warwick, RI 02888
- In addition to the paper copies, electronic/email submittals are required under Commission regulations. Such electronic submittals should be sent to RES@puc.ri.gov.
- In addition to filing with the Commission, Applicants are required to send, electronically or electronically and in paper format, a copy of the completed Application including all attachments and supporting documentation, to the Division of Public Utilities and Carriers and to all interested parties. A list of interested parties can be obtained from the Commission's website at www.ripuc.org/utilityinfo/res.html.
 - Keep a copy of the completed Application for your records.
 - The Commission will notify the Authorized Representative if the Application is incomplete.
 - Pursuant to Section 6.0 of the RES Regulations, the Commission shall provide a thirty (30) day period for public comment following posting of any administratively complete Application.
 - Please note that all information submitted on or attached to the Application is considered to be a public record unless the Commission agrees to deem some portion of the application confidential after consideration under section 1.2(g) of the Commission's Rules of Practice and Procedure.
 - In accordance with Section 6.2 of the RES Regulations, the Commission will provide prospective reviews for Applicants seeking a preliminary determination as to whether a facility would be eligible prior to the formal certification process described in Section 6.1 of the RES Regulations. Please note that space is provided on the Form for applicant to designate the type of review being requested.
 - Questions related to this Renewable Energy Resources Eligibility Form should be submitted in writing, preferably via email and directed to: Luly E. Massaro, Commission Clerk at RES@puc.ri.gov.

SECTION I: Identification Information

1.1 Name of Generation Unit (sufficient for full and unique identification):
Maplehurst Farm Methane

1.2 Type of Certification being requested (check one):
 Standard Certification Prospective Certification (Declaratory Judgment)

1.3 This Application includes: (Check all that apply)¹
 APPENDIX A: Authorized Representative Certification for Individual Owner or Operator
 APPENDIX B: Authorized Representative Certification for Non-Corporate Entities Other Than Individuals
 APPENDIX C: Existing Renewable Energy Resources
 APPENDIX D: Special Provisions for Aggregators of Customer-sited or Off-grid Generation Facilities
 APPENDIX E: Special Provisions for a Generation Unit Located in a Control Area Adjacent to NEPOOL
 APPENDIX F: Fuel Source Plan for Eligible Biomass Fuels

1.4 Primary Contact Person name and title: Peter Gebbie
owner / operator

1.5 Primary Contact Person address and contact information:
Address: 2183 Gebbie Rd
Greensboro, VT 05841
Phone: 802-533-2984 Fax: 802-533-7703
Email: psgebbie@yahoo.com

1.6 Backup Contact Person name and title: Sandra Gebbie - owner

1.7 Backup Contact Person address and contact information:
Address: S/A
Phone: _____ Fax: _____
Email: _____

¹ Please note that all Applicants are required to complete the Renewable Energy Resources Eligibility Standard Application Form and all of the Appendices that apply to the Generation Unit or Owner or Operator that is the subject of this Form. Please omit Appendices that do not apply.

1.8 Name and Title of Authorized Representative (*i.e.*, the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):

Peter Gebbie

Appendix A or B (as appropriate) completed and attached? Yes No N/A

1.9 Authorized Representative address and contact information:

Address: _____

Phone: _____ Fax: _____

Email: _____

1.10 Owner name and title: Peter Gebbie owner

1.11 Owner address and contact information:

Address: 2183 Gebbie Rd

Greensboro, VT 05841

Phone: 802-533-2984 Fax: 802-533-7703

Email: psgebbie@yahoo.com

1.12 Owner business organization type (check one):

- Individual
 Partnership
 Corporation
 Other: _____

1.13 Operator name and title: S/A

1.14 Operator address and contact information:

Address: S/A

Phone: _____ Fax: _____

Email: _____

1.15 Operator business organization type (check one):

- Individual
 Partnership
 Corporation
 Other: _____

SECTION II: Generation Unit Information, Fuels, Energy Resources and Technologies

- 2.1 ISO-NE Generation Unit Asset Identification Number or NEPOOL GIS Identification Number (either or both as applicable): NON 37209
- 2.2 Generation Unit Nameplate Capacity: 150 KW
- 2.3 Maximum Demonstrated Capacity: 70 KW
- 2.4 Please indicate which of the following Eligible Renewable Energy Resources are used by the Generation Unit: (Check ALL that apply) – *per RES Regulations Section 5.0*
- Direct solar radiation
 - The wind
 - Movement of or the latent heat of the ocean
 - The heat of the earth
 - Small hydro facilities
 - Biomass facilities using Eligible Biomass Fuels and maintaining compliance with all aspects of current air permits; Eligible Biomass Fuels may be co-fired with fossil fuels, provided that only the renewable energy fraction of production from multi-fuel facilities shall be considered eligible.
 - Biomass facilities using unlisted biomass fuel
 - Biomass facilities, multi-fueled or using fossil fuel co-firing
 - Fuel cells using a renewable resource referenced in this section
- 2.5 If the box checked in Section 2.4 above is “Small hydro facilities”, please certify that the facility’s aggregate capacity does not exceed 30 MW. – *per RES Regulations Section 3.32*
- ← check this box to certify that the above statement is true
 - N/A or other (please explain) _____
- 2.6 If the box checked in Section 2.4 above is “Small hydro facilities”, please certify that the facility does not involve any new impoundment or diversion of water with an average salinity of twenty (20) parts per thousand or less. – *per RES Regulations Section 3.32*
- ← check this box to certify that the above statement is true
 - N/A or other (please explain) _____
- 2.7 If you checked one of the Biomass facilities boxes in Section 2.4 above, please respond to the following:
- A. Please specify the fuel or fuels used or to be used in the Unit: Manure, Whey byproducts
- B. Please complete and attach Appendix F, Eligible Biomass Fuel Source Plan.
Appendix F completed and attached? Yes No N/A

2.8 Has the Generation Unit been certified as a Renewable Energy Resource for eligibility in another state's renewable portfolio standard?

Yes No If yes, please attach a copy of that state's certifying order.

Copy of State's certifying order attached? Yes No N/A

SECTION III: Commercial Operation Date

Please provide documentation to support all claims and responses to the following questions:

3.1 Date Generation Unit first entered Commercial Operation: 07/12/12 at the site.

If the commercial operation date is after December 31, 1997, please provide independent verification, such as the utility log or metering data, showing that the meter first spun after December 31, 1997. This is needed in order to verify that the facility qualifies as a New Renewable Energy Resource.

Documentation attached? Yes No N/A

3.2 Is there an Existing Renewable Energy Resource located at the site of Generation Unit?

Yes
 No

3.3 If the date entered in response to question 3.1 is earlier than December 31, 1997 or if you checked "Yes" in response to question 3.2 above, please complete Appendix C.

Appendix C completed and attached? Yes No N/A

3.4 Was all or any part of the Generation Unit used on or before December 31, 1997 to generate electricity at any other site?

Yes
 No

3.5 If you checked "Yes" to question 3.4 above, please specify the power production equipment used and the address where such power production equipment produced electricity (attach more detail if the space provided is not sufficient):

SECTION IV: Metering

4.1 Please indicate how the Generation Unit's electrical energy output is verified (check all that apply):

- ISO-NE Market Settlement System
- Self-reported to the NEPOOL GIS Administrator

Other (please specify below and see Appendix D: Eligibility for Aggregations):
VEPP - 3rd party meter verifier

Appendix D completed and attached? Yes No N/A

SECTION V: Location

5.1 Please check one of the following that apply to the Generation Unit:

- Grid Connected Generation
 Off-Grid Generation (not connected to a utility transmission or distribution system)
 Customer Sited Generation (interconnected on the end-use customer side of the retail electricity meter in such a manner that it displaces all or part of the metered consumption of the end-use customer).

5.2 Generation Unit address: 2183 Gebbie Rd.
Greensboro VT 05841

5.3 Please provide the Generation Unit's geographic location information:

A. Universal Transverse Mercator Coordinates: _____

B. Longitude/Latitude: 44° 37.803' -72° 17.354'

5.4 The Generation Unit located: (please check the appropriate box)

- In the NEPOOL control area
 In a control area adjacent to the NEPOOL control area
 In a control area other than NEPOOL which is not adjacent to the NEPOOL control area ← *If you checked this box, then the generator does not qualify for the RI RES -- therefore, please do not complete/submit this form.*

5.5 If you checked "In a control area adjacent to the NEPOOL control area" in Section 5.4 above, please complete Appendix E.

Appendix E completed and attached? Yes No N/A

SECTION VI: Certification

6.1 Please attach documentation, using one of the applicable forms below, demonstrating the authority of the Authorized Representative indicated in Section 1.8 to certify and submit this Application.

Corporations

If the Owner or Operator is a corporation, the Authorized Representative shall provide either:

- (a) Evidence of a board of directors vote granting authority to the Authorized Representative to execute the Renewable Energy Resources Eligibility Form, or
- (b) A certification from the Corporate Clerk or Secretary of the Corporation that the Authorized Representative is authorized to execute the Renewable Energy Resources Eligibility Form or is otherwise authorized to legally bind the corporation in like matters.

Evidence of Board Vote provided? Yes No N/A

Corporate Certification provided? Yes No N/A

Individuals

If the Owner or Operator is an individual, that individual shall complete and attach APPENDIX A, or a similar form of certification from the Owner or Operator, duly notarized, that certifies that the Authorized Representative has authority to execute the Renewable Energy Resources Eligibility Form.

Appendix A completed and attached? Yes No N/A

Non-Corporate Entities

(Proprietorships, Partnerships, Cooperatives, etc.) If the Owner or Operator is not an individual or a corporation, it shall complete and attach APPENDIX B or execute a resolution indicating that the Authorized Representative named in Section 1.8 has authority to execute the Renewable Energy Resources Eligibility Form or to otherwise legally bind the non-corporate entity in like matters.

Appendix B completed and attached? Yes No N/A

6.2 Authorized Representative Certification and Signature:

I hereby certify, under pains and penalties of perjury, that I have personally examined and am familiar with the information submitted herein and based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties, both civil and criminal, for submitting false information, including possible fines and punishment. My signature below certifies all information submitted on this Renewable Energy Resources Eligibility Form. The Renewable Energy Resources Eligibility Form includes the Standard Application Form and all required Appendices and attachments. I acknowledge that the Generation Unit is obligated to and will notify the Commission promptly in the event of a change in a generator's eligibility status (including, without limitation, the status of the air permits) and that when and if, in the Commission's opinion, after due consideration, there is a material change in the characteristics of a Generation Unit or its fuel stream that could alter its eligibility, such Generation Unit must be re-certified in accordance with Section 9.0 of the RES Regulations. I further acknowledge that the Generation Unit is obligated to and will file such quarterly or other reports as required by the Regulations and the Commission in its certification order. I understand that the Generation Unit will be immediately de-certified if it fails to file such reports.

Signature of Authorized Representative:

SIGNATURE:

DATE:

Ellen Miller

11-21-2013

owner

(Title)

GIS Certification #:

APPENDIX A
(Required When Owner or Operator is An Individual)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM
Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

I, Peter Gebbie, as Owner or Operator of the Generation Unit named in Section 1.1 of the attached Renewable Energy Resources Eligibility Form, under the pains and penalties of perjury, hereby certify that Eben Purderson, named in Section 1.8 of the attached Application, is authorized to execute this Renewable Energy Resource Eligibility Form.

SIGNATURE:

DATE:

Peter Gebbie

11-21-2013

owner

(Title)

State: _____

County: _____

(TO BE COMPLETED BY NOTARY) I, _____ as a notary public, certify that I witnessed the signature of the above named _____ and said individual verified his/her identity to me on this date: _____

SIGNATURE:

My commission expires on: _____

NOTARY SEAL:

GIS Certification #:

APPENDIX B
(Required When Owner or Operator is a Non-Corporate Entity
Other Than An Individual)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION

RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM
Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

RESOLUTION OF AUTHORIZATION

Resolved: that _____, named in
Section 1.8 of the Renewable Energy Resources Eligibility Form as Authorized Representative,
is authorized to execute the Application on the behalf of _____,
the Owner or Operator of the Generation Unit named in section 1.1 of the Application.

SIGNATURE:

DATE:

State: _____

County: _____

(TO BE COMPLETED BY NOTARY) I, _____ as a
notary public, certify that I witnessed the signature of the above named _____,
and that said person stated that he/she is authorized to execute this resolution, and the individual
verified his/her identity to me, on this date: _____

SIGNATURE:

DATE:

My commission expires on: _____

NOTARY SEAL:

APPENDIX F
(Revised 6/11/10)
Eligible Biomass Fuel Source Plan
(Required of all Applicants Proposing to Use An Eligible Biomass Fuel)

STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION
Part of Application for Certificate of Eligibility
RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM
Pursuant to the Renewable Energy Act
Section 39-26-1 et. seq. of the General Laws of Rhode Island

Note to Applicants: Please refer to the RES Certification Filing Methodology Guide posted on the Commission's web site (www.rinuc.org/utilityinfo/res.html) for information, templates and suggestions regarding the types and levels of detail appropriate for responses to specific application items requested below. Also, please see Section 6.9 of the RES Regulations for additional details on specific requirements.

The phrase "Eligible Biomass Fuel" (per RES Regulations Section 3.7) means fuel sources including brush, stumps, lumber ends and trimmings, wood pallets, bark, wood chips, shavings, slash, yard trimmings, site clearing waste, wood packaging, and other clean wood that is not mixed with other unsorted solid wastes⁵; agricultural waste, food and vegetative material; energy crops; landfill methane⁶ or biogas⁷, provided that such gas is collected and conveyed directly to the Generation Unit without use of facilities used as common carriers of natural gas; or neat bio-diesel and other neat liquid fuels that are derived from such fuel sources

In determining if an Eligible Biomass Generation Unit shall be certified, the Commission will consider if the fuel source plan can reasonably be expected to ensure that only Eligible Biomass Fuels will be used, and in the case of co-firing ensure that only that proportion of generation attributable to an Eligible Biomass Fuel be eligible. Certification will not be granted to those Generation Units with fuel source plans the Commission deems inadequate for these purposes.

⁵ Generation Units using wood sources other than those listed above may make application, as part of the required fuel source plan described in Section 6.9 of the RES Regulations, for the Commission to approve a particular wood source as "clean wood." The burden will be on the applicant to demonstrate that the wood source is at least as clean as those listed in the legislation. Wood sources containing resins, glues, laminates, paints, preservatives, or other treatments that would combust or off-gas, or mixed with any other material that would burn, melt, or create other residue aside from wood ash, will not be approved as clean wood.

⁶ Landfill gas, which is an Eligible Biomass Fuel, means only that gas recovered from inside a landfill and resulting from the natural decomposition of waste, and that would otherwise be vented or flared as part of the landfill's normal operation if not used as a fuel source.

⁷ Gas resulting from the anaerobic digestion of sewage or manure is considered to be a type of biogas, and therefore an Eligible Biomass Fuel that has been fully separated from the waste stream.

This Appendix must be attached to the front of Applicant's Fuel Source Plan required for Generating Units proposing to use an Eligible Biomass Fuel (per Section 6.9 of RES Regulations).

F.1 The attached Fuel Source Plan includes a detailed description of the type of Eligible Biomass Fuel to be used at the Generation Unit.

Detailed description attached? Yes No N/A

Comments: _____

F.2 If the proposed fuel is "other clean wood," the Fuel Source Plan should include any further substantiation to demonstrate why the fuel source should be considered as clean as those clean wood sources listed in the legislation.

Further substantiation attached? Yes No N/A

Comments: _____

F.3 In the case of co-firing with ineligible fuels, the Fuel Source Plan must include a description of (a) how such co-firing will occur; (b) how the relative amounts of Eligible Biomass Fuel and ineligible fuel will be measured; and (c) how the eligible portion of generation output will be calculated. Such calculations shall be based on the energy content of all of the proposed fuels used.

Description attached? Yes No N/A

Comments: _____

F.4 The Fuel Source Plan must provide a description of what measures will be taken to ensure that only the Eligible Biomass Fuel are used, examples of which may include: standard operating protocols or procedures that will be implemented at the Generation Unit, contracts with fuel suppliers, testing or sampling regimes.

Description provided? Yes No N/A

Comments: _____

F.5 Please include in the Fuel Source Plan an acknowledgement that the fuels stored at or brought to the Generation Unit will only be either Eligible Biomass Fuels or fossil fuels used for co-firing and that Biomass Fuels not deemed eligible will not be allowed at the premises of the certified Generation Unit. And please check the following box to certify that this statement is true.

← check this box to certify that the above statement is true

N/A or other (please explain) _____

F.6 If the proposed fuel includes recycled wood waste, please submit documentation that such fuel meets the definition of Eligible Biomass Fuel and also meets material separation, storage, or handling standards acceptable to the Commission and furthermore consistent with the RES Regulations.

Documentation attached? Yes No N/A

Comments: _____

F.7 Please certify that you will file all reports and other information necessary to enable the Commission to verify the on-going eligibility of the renewable energy generators pursuant to Section 6.3 of the RES Regulations. Specifically, RES Regulations Section 6.3(i) states that Renewable Energy Resources of the type that combust fuel to generate electricity must file quarterly reports due 60 days after the end of each quarter on the fuel stream used during the quarter. Instructions and filing documents for the quarterly reports can be found on the Commissions website or can be furnished upon request.

← check this box to certify that the above statement is true

N/A or other (please explain) _____

F.8 Please attach a copy of the Generation Unit's Valid Air Permit or equivalent authorization.

Valid Air Permit or equivalent attached? Yes No N/A

Comments: Not required.
See email from State of VT. - J. Hollingsworth

F.9 Effective date of Valid Air Permit or equivalent authorization:

____ / ____ / ____

F.10 State or jurisdiction issuing Valid Air Permit or equivalent authorization:

Hardwick Electric Department

PO Box 516

Hardwick, Vermont 05843

(802) 472-5201 - (802) 472-3388

Fax (802) 472-6769

August 21, 2012

Peter & Sandra Gebbie
Gebbies' Maplehurst Farm
2183 Gebbie Road
Greensboro, VT 05841

Dear Peter & Sandra,

The Hardwick Electric Department (HED) has successfully commissioned the Maplehurst Farms' generator and associated interconnection equipment on July 11, 2012. HED has also executed and Interconnection Agreement and Operating Protocol Agreement with Maplehurst Farms.

HED has paralleled the generator to the power system grid on that date and by doing so granted Permission to Operate.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Eric C. Werner".

Eric C. Werner
General Manager, Hardwick Electric Department

MAPLEHURST FARM DESCRIPTION OF PROJECT

Background

Peter and Sandra Gebbie, owners and operators of Maplehurst Farm (the "Applicant") placed in service an anaerobic digester system (the "System") with a nameplate capacity rating of 150 kW. The System constitutes an open-loop biomass facility under Section 45 of the Internal Revenue Code, and therefore is specified energy property eligible for the Section 1603 Treasury Grant.

The System digests manure from an existing dairy herd; produces biogas; combusts the biogas to generate renewable electrical energy on a continuous basis; and utilizes digester effluent as crop fertilizer and cow bedding material. The System was designed and installed by RCM International, LLC ("RCM") of Berkeley, California.

Detailed System Description

The System collects manure from cows into a large airtight concrete tank with a flexible rubber cover and holds it there for about three weeks. Bacteria present in the manure will "digest" the manure much like a cow's stomach digests feed. Biogas, produced by the bacterial breakdown of the manure, will build up in the tank and a pipe will deliver it to a genset, where it will be burned to make electricity.

The feedstock for the System is the manure produced by the cows owned by Maplehurst Farm (the "Farm"). Cow manure is a renewable resource and will be available as feedstock 24 hours per day for as long as the dairy run by the Farm remains in operation. The energy contained in the manure is that which remains from the feed given to the cows after they have extracted what they need to produce milk, and for their own growth and sustenance. The energy in the feed is captured solar energy - hence the renewable nature of the electricity produced in the process.

As noted, manure will be available as feedstock for the System on a continuous basis. Unprocessed manure scraped from the dairy barns is diverted to a reception pit where it is mixed and then pumped to the digester on a regular basis throughout the day so as to avoid any potential shocks to the system.

Manure in the digester tank is mixed and heated to a temperature of 100 degrees Fahrenheit, about the same temperature as a cow's stomach, and therefore the optimum temperature for the growth of beneficial bacteria. Note that reclaimed heat from the System will provide more than enough heat necessary to raise the manure to 100 degrees so no additional energy input is required. The first stage of the two-stage digestion process is designed to facilitate the growth of acid forming bacteria. These bacteria break down the complex organic plant wastes found in the raw manure into volatile fatty acids and acetic acid.

During the second digestion stage, the colonization of slower growing methanogenic (or methane producing) bacteria is encouraged with continued digester heating. The optimum storage time for the methanogenic process to occur is 20 days, and the digester has been sized accordingly. Methanogenic bacteria convert the volatile fatty acids and acetic acid produced in the first stage of the digester into biogas. Digester biogas typically consists of 60% methane (CH₄) and 40% carbon dioxide (CO₂).

After the methanogenic process is complete, digester effluent gravity flows to an effluent pit, and is then pumped to a mechanical liquid/solid separator. The Farm uses separated solids from the mechanical separator as cow bedding material, thereby reducing costs for sawdust for cow bedding. Any unused solids are either land applied or sold to other farms for use as bedding. The liquid from the mechanical separator gravity flows to the existing manure storage lagoon and is land applied using current Farm practices. The methane rich biogas is collected from the digester vessel, cooled to precipitate out excess moisture, and utilized to fuel the combined heat and power genset. The System generates 150kW of renewable electrical energy on a continuous basis.

Subject: RE: Air approval letter
From: Hollingsworth, Jay (Jay.Hollingsworth@state.vt.us)
To: psgebbie@yahoo.com;
Date: Friday, December 6, 2013 8:07 AM

Hi Sandra-

Thank you for the email notifying the Air Quality and Climate Division (Agency) of the change in regard to your methane digester engine size. This is a small enough change that you can use this acknowledgement email as approval for the change. We will make note in our database that the originally sized 100 kW engine has been not been installed and a 150 kW engine has been installed instead. The Agency is in the process of potentially changing the registration requirements for projects such as yours. At this time, you can continue not to register the emissions from your engine. If the status changes, I will be sure to touch base with you in the future. If you have any additional questions, don't hesitate to contact me.

Thank you,

Jay

Jay Hollingsworth, Environmental Engineer



DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Air Quality and Climate Division

One National Life Drive | Davis (North) Building 2nd Floor | Montpelier, VT 05620-3802

Telephone: 802-272-3006 | jav.hollingsworth@state.vt.us | <http://www.anr.state.vt.us/air/>

From: Sandy Gebbie [mailto:psgebbie@yahoo.com]
Sent: Saturday, November 30, 2013 8:50 AM
To: Hollingsworth, Jay
Subject: Air approval letter

Jay: Following up on our telephone conversation of last week, I am writing to request a letter of approval for our methane digester. We originally received a letter from Richard Valentinetti dated April 2010 that stated we did not require an Air Pollution Control permit under the following conditions:

- operating a 100 kW internal combustion engine
- any gas not combusted in engine is routed to a back up boiler
- register its air emissions with Agency annually

Since this letter was written, the operation actually changed to include a 150 kW engine with a flare as backup. I am requesting a letter of approval from ANR for our current and operating methane digester. Also, could you please advise me how to register the digester's emissions on an annual basis? Is there a form I need to use for this or a specific individual to contact and what information will be required? Thanks so much for your help. Sandy Gebbie