



579 Tenney Mountain Highway
 Plymouth, NH 03264-3154
 www.nhec.coop
 603-536-1800 / 800-698-2007



Ms. Debra A. Howland
 Executive Director and Secretary
 State of New Hampshire
 Public Utilities Commission
 21 S. Fruit St, Suite 10
 Concord, NH 03301-2429

NHPUC 14JAN14 9:43

January 13, 2014

RE: Puc 2505.08 Certification of Certain Customer-Sited Sources and 2505.09(b) Monitoring Waiver

Dear Ms Howland:

In accordance with Puc 2505.08 we are submitting the attached application for your review. Please note that this installation is a 40,000 watt DC solar photovoltaic installation. This installation is located at the NHEC Raymond District Office at 266 State of NH Route 27, Raymond NH. This location is within the PSNH franchise service area and the electricity to this location is provided by PSNH. NHEC has followed the PSNH "Simplified Process Interconnection Application and Service Agreement" and received approval by PSNH for the interconnection to their distribution system as a NET metered account. This documentation is included as part of this application.

In a letter dated January 16, 2009 NHEC made application to the NHPUC to be a designated "Independent Monitor" and indicated it "may seek to offer these services to non-members at a later date." On May 12, 2009 in a letter referencing DE 09-006 the NHPUC approved NHEC's application to be an "Independent Monitor". The NHEC Sunapee District Office is a NHEC owned facility which is a distribution customer of PSNH. PSNH does not offer "Independent Monitoring" services. This is a non-member location and we believe it is logical for us to be the independent monitor for our own facility. NHEC is planning on being the independent monitor for this installation and has installed a REC meter for this purpose. At this time we do not have plans to offer the "Independent Monitoring" services to non-members beyond our own facilities. We plan to utilize the REC's produced by this facility to help meet NHEC Renewable Portfolio Standard requirements.

NHEC is also requesting a waiver to rule 2505.09(b) – monitoring. This waiver is to allow NHEC to be the independent monitor (IM) outside of its service territory for this location. This waiver request is similar to the NHEC request made for the NHEC Sunapee District Office that was approved in DE 13-025.

If you have any questions or concerns please contact me.

Gary S. Lemay PE
 NHEC Renewable Energy Engineer

e-mail – lemays@nhec.com

W - 603-536-8828

C - 603-254-7518 F - 603-536-8698

(City) (State) (Zip Code)

9. Telephone number: 603-598-0181

10. Facsimile number: _____

11. Email address: _____

12. Equipment
Vendor's Name: KW Management, Inc

13. Business Address: (1) 55 Lake Street

(2) _____

(3) _____

Nashua NH 03060
(City) (State) (Zip Code)

14. Telephone number: 603-598-0181

15. Facsimile number: _____

16. Email address: _____

17. Independent Monitor's
Name: New Hampshire Electric Cooperative, Inc.

18. Business Address: (1) 579 Tenney Mountain Highway

(2) _____

(3) _____

Plymouth NH 03264
(City) (State) (Zip Code)

19. Telephone number: 800-698-2007

20. Facsimile number: 603-536-8698

21. Email address: _____

22. The ISO-New England asset identification number, if applicable: _____ or N/A:

23. The GIS facility code, if applicable: pending or N/A:

24. If Class I, please identify type of source below:
 wind generation solar hot water other generation.
 If other type of generation, provide a description. (Attach as "Exhibit A")
25. A list and description of the equipment used at the facility, including the REC meter and, if applicable, the inverter (Attach as "Exhibit B") **ATTACHED**
26. A copy of the interconnection agreement pursuant to Puc 307.06, if applicable, between the applicant and the distribution utility. (Attach as "Exhibit C" or N/A) **ATTACHED**
27. An attestation by the applicant that the project is installed and operating in conformance with any applicable building codes. (Attach as "Exhibit D" or N/A) **ATTACHED**
28. For an installation with electric output, documentation of the applicable distribution utility's approval of the installation. (Attach as "Exhibit E" or N/A) **ATTACHED**
29. This application and all future correspondence should be sent to:
 Ms. Debra A. Howland
 Executive Director and Secretary
 State of New Hampshire
 Public Utilities Commission
 21 S. Fruit St, Suite 10
 Concord, NH 03301-2429

30. Preparer's Information:

Name: Scott C. McNeil

Title: Program Administrator

Company: New Hampshire Electric Cooperative, Inc.

Address: 579 Tenney Mountain Highway, Plymouth, NH 03264

Phone Number: 603-536-8608

Email Address: mcneils@nhec.com

31. Preparer's Signature:  1-13-14

EXHIBIT B

NH Electric Cooperative, Inc., Raymond District
266 State Route 27, PO Box 845
Raymond, NH 03077

Equipment:	160	Mage Powertec Plus 250/6MNS solar panels
	3	SMA Sunny Boy SB11000TLUS inverters
	1	SMA Sunny Boy SB4000TLUS inverter
	2	ground mounting racks
	1	Eaton 200 amp breaker for inverters
	1	200 amp meter enclosure for REC meter
REC meter:	1	Elster Type R2S hour meter # 641005 serial# 14155974 start read 000000

EXHIBIT C & EXHIBIT E

RECEIVED
DEC 09 2013

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

BY: _____

Simplified Process Interconnection Application and Service Agreement

Date Prepared: 11-5-13

Contact Information:

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

✓ Customer or Company Name (print): NH ELECTRIC COOP
Contact Person, if Company: GARY S. LEMAY
Mailing Address: 579 TENNEY MOUNTAIN HIGHWAY
City: PLYMOUTH State: NH Zip Code: 03264
Telephone (Daytime): 603-536-8828 (Evening): _____
Facsimile Number: 603-536-8698 E-Mail Address: LEMAYG@NHEC.COM

Alternative Contact Information (e.g., System installation contractor or coordinating company, if appropriate):

Name: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Telephone (Daytime): _____ (Evening): _____
Facsimile Number: _____ E-Mail Address: _____

Electrical Contractor Contact Information (if appropriate):

Name: KW MANAGEMENT
Mailing Address: 55 LAKE STREET BOX #4
City: NASHUA State: NH Zip Code: 03060
Telephone (Daytime): 603-598-0181 (Evening): _____
Facsimile Number: 603-598-5188 E-Mail Address: MWEISSFIDG@KW
MANAGEMENT.COM

Facility Site Information:

✓ Facility (Site) Address: 266 STATE ROUTE 27, P.O. BOX 845
✓ City: RAYMOND State: NH Zip Code: 03077
Electric Service Company: PSNH Account Number: [REDACTED] Meter Number: 365930036

Non-Default Service Customers Only:

Competitive Electric Energy Supply Company: _____ Account Number: _____

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

Facility Machine Information:

Generator/ Inverter Manufacturer: SMA ✓ Model Name & Number: 3-3B11000TLUS
1-3B A000TLUS Quantity: 4
Nameplate Rating: 34537 (kW) _____ (kVA) _____ (AC Volts) 120/240 Phase: Single Three
System Design Capacity: 400 (kW) _____ (kVA) Battery Backup: Yes No
Net Metering: If Renewably Fueled, will the account be Net Metered? Yes No
Prime Mover: Photovoltaic Reciprocating Engine Fuel Cell Turbine Other _____
✓ Energy Source: Solar Wind Hydro Diesel Natural Gas Fuel Oil Other _____

34537 AC

40 Kw
Pur

EXHIBIT C & EXHIBIT E

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)
✓ Yes No

The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use in Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'

✓ Yes No

Location of External Manual Disconnect Switch: ADJACENT TO PSNH METER

Project Estimated Install Date: 12-9 to 12-31-13 Project Estimated In-Service Date: 12-31-13

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions for Simplified Process Interconnections attached hereto:

Customer Signature: [Signature] Title: Renewable Energy Date: 12-5-13

Please include, a one-line and/or three-line drawing of proposed installation.

For PSNH Use Only Engineer

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes No To be Determined

Company Signature: [Signature] Title: SR. ENGINEER Date: 12-9-13

PSNH Application Project ID#: N2839

EXHIBIT C & EXHIBIT E

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Terms and Conditions for Simplified Process Interconnections

PSNH waives inspection/Witness Test: Yes No

Date of inspection/Witness Test: Call to Schedule

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
 - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
 - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

EXHIBIT C & EXHIBIT E

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

Check if owner-installed

Customer or Company Name (print): NH ELECTRIC COOPERATIVE
Contact Person, if Company: GARY S. LEMAY
Mailing Address: 579 TENNEY MOUNTAIN HIGHWAY
City: PLYMOUTH State: NH Zip Code: 03264
Telephone (Daytime): 603-536-8828 (Evening): CELL 603-254-7518
Facsimile Number: 603-536-8698 E-Mail Address: LEMAYG@NHEC.COM

Address of Facility (if different from above): 266 STATE ROUTE 27, P.O. BOX 845
City: RAYMOND State: NH Zip Code: 03077
Generation Vendor: K.W. MANAGEMENT Contact Person: MARK WEISSFLOG
I hereby certify that the system hardware is in compliance with Puc 900.

Vendor Signature: [Signature]

Date: 12-29-13

Electrical Contractor's Name (if appropriate): SAME
Mailing Address: 55 LAKE STREET Box #4
City: NASHUA State: NH Zip Code: 03077
Telephone (Daytime): 603-598-0181 (Evening): _____
Facsimile Number: 603-598-5188 E-Mail Address: MWEISSFLOG@KWMANAGEMENT.COM
License number: 7474M

Date of approval to install Facility granted by the Company: 12-9-13 Installation Date: _____

Application ID number: N2839

Inspection:

The system has been installed and inspected in compliance with the local Building/Electrical Code of

Raymond
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection): [Signature]

Name (printed): X Steve Bergstrom

Date: 12-30-13

Customer Certification:

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Puc 905.04 has been successfully completed.

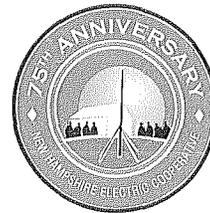
Customer Signature: [Signature]

Date: 12-30-13

EXHIBIT D



579 Tenney Mountain Highway
Plymouth, NH 03264-3154
www.nhec.coop
603-536-1800 / 800-698-2007



January 13, 2014

To: NH Public Utilities Commission

RE: NHEC REC Meter

266 State NH Route 27

Raymond, NH 03077

NHEC Solar Photovoltaic Installation – 40,000 watts DC

The under signed NHEC employee attests that the solar photovoltaic installation at 266 State NH Route 27, Raymond, NH was installed and is operating in conformance with the local building codes. This location is the NHEC Raymond District Office.

Please direct any questions regarding the installation to Gary S. Lemay

Gary S. Lemay PE

Renewable Energy Engineer

e-mail – lemayg@nhec.com

W – 603-536-8828

C – 603-254-7518

F – 603-536-8698