



**Public Service  
of New Hampshire**

PSNH Energy Park  
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December 12, 2008

The Northeast Utilities System

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

Re: Delivery Service Tariff NHPUC No. 6 Effective December 12, 2008

Dear Ms. Howland:

In compliance with Order No. 24,893 dated September 15, 2008 in Docket DE 06-061 (Investigation into Implementation of Standards in the Energy Policy Act of 2005 – Order Concluding Investigation) the following tariff pages are transmitted herewith:

NHPUC No. 6 - Electricity Delivery Service  
Public Service of New Hampshire

Original Page 23-A  
3<sup>rd</sup> Revised Pages 2, 23 and 24

Effective: December 12, 2008

Third Revised Page 24 is issued in lieu of 2<sup>nd</sup> Revised Page 24, because 2<sup>nd</sup> Revised Page 24 was suspended by the Commission in its Order No. 24,915 in Docket No. DE 08-135 on November 26, 2008 pending further review by the Commission. In addition to the tariff pages, a manual entitled “Interconnection Standards for Inverters Sized Up to 100 KVA” is enclosed.

In its Order No. 24,893 the Commission ordered Unitil, Granite State Electric and PSNH to complete work on a common draft tariff for interconnection of generating sources of up to 10 KVA and possibly inverter based sources up to 100 KVA as described in the Report of the Technical Session of April 25, 2008 filed on May 13, 2008 and to file utility specific tariffs based on such common draft by December 31, 2008.

To comply with the Commission’s Order, a section entitled “Interconnection Standards for Generating Facilities” has been added to the Terms and Conditions for Delivery Service section of PSNH’s Tariff which references the “Interconnection Standards for Inverters Sized Up to 100 KVA” manual. PSNH proposes that the “Interconnection Standards for Inverters Sized Up to 100 KVA” manual (“Interconnection Standards”), which provides standardized rules for the interconnection of inverter based generators with PSNH’s distribution facilities, be incorporated into PSNH’s Tariff by reference.

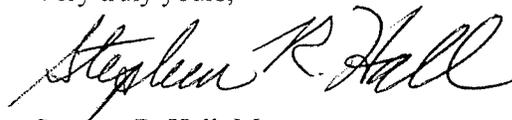
Debra A. Howland  
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State of New Hampshire  
Public Utilities Commission  
December 12, 2008  
Page 2

This approach is identical to the way PSNH's Tariff references and incorporates the manual entitled "Requirements for Electric Service Connections". Similar to the Interconnection Standards, the "Requirements for Electric Service Connections" manual provides builders, customers and electrical contractors with standardized rules for the installation of electric service connections made within the areas served by PSNH. Rather than providing customers with specific pages from PSNH's Tariff that must be formatted to meet the Commission's tariff filing rules, this approach allows PSNH to provide the Interconnection Standards and the "Requirements for Electric Service Connections" to customers as a booklet or manual which PSNH believes is a more customer-friendly approach.

The Interconnection Standards have been reviewed and approved by Unitil, Granite State Electric and the Commission's Staff. Any future changes to the Interconnection Standards will be first reviewed and approved by the Commission's Staff, Unitil, and Granite State Electric and then filed with the Commission.

Please let us know if there are any questions concerning this filing. We are sending one signed original copy of all filing materials and three conformed copies. We request that one conformed copy bearing the Commission's date-of-receipt stamp be returned.

Very truly yours,

A handwritten signature in black ink that reads "Stephen R. Hall". The signature is written in a cursive style with a large, stylized "S" and "H".

Stephen R. Hall, Manager  
Rate & Regulatory Services

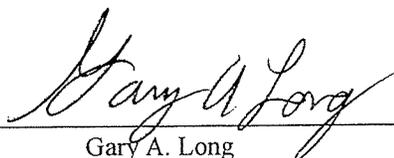
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Enclosures  
cc: Meredith A. Hatfield, OCA

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Issued: December 12, 2008

Issued by:

  
Gary A. Long

Effective: December 12, 2008

Title: President and Chief Operating Officer

### 33. Interconnection Standards for Generating Facilities

Any person or entity planning to operate a generating facility and connect it to the Company's facilities must receive approval from the Company prior to connecting the generating facility to the Company's facilities. A generating facility is any device producing electrical energy which can range in size from a small, residential photovoltaic solar installation to a large commercial generating facility. Inverter-based generating facilities sized up to 100 KVA must meet the requirements contained in the Company's "Interconnection Standards for Inverters Sized Up to 100 KVA", as approved by the Commission. The Standards provide information on the application process, time-lines and technical requirements and are available at the Company's web site at [www.PSNH.com](http://www.PSNH.com). For all other generating facilities, the Company must be contacted for site specific interconnection requirements prior to interconnecting the generating facilities with the Company's facilities.

### 34. Rates for Purchases from Qualifying Facilities

#### Availability:

This short-term purchase arrangement shall be available to Qualifying Facilities (QFs) interconnected with the Company. Qualifying Facilities shall mean small power producers and cogenerators that meet the criteria specified by (i) FERC in 18 C.F.R. §§ 292.203 (a) and (b); or; (ii) the definition of "limited producer" or "limited electrical energy producer" in NHRSA 362-A:1-a and who meet the requirements of RSA 362-A:3, II.

Nothing shall prohibit the Company from separately contracting for generation purchases from QFs. Nothing herein shall be construed to affect, modify or amend terms and conditions of an existing Qualifying Facility's contract or rate order with respect to the sale of its energy or capacity.

#### Selling Options:

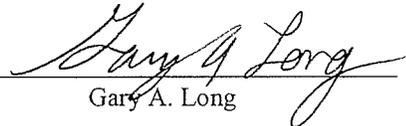
QFs may sell to the Company or wheel through the Company. All generation sold to the Company shall be resold at the ISO-NE market clearing price and subject to appropriate charges as if the power was wheeled through the Company and sold directly to ISO-NE.

#### Metering:

Generators selling to the Company shall install metering as specified by the Company to satisfy ISO-NE requirements as they may change from time to time. Projects shall be charged a standard monthly service fee for metering service as approved by the appropriate regulatory agency.

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Net Metering:

Projects 100 kilowatts and under using renewable generation shall have the option of being served under the Net Energy Billing Service as specified by NH RSA 362-A:9 and the rules promulgated by the appropriate regulatory agency.

Rates:

Qualifying Facilities selling their output to the Company will be eligible to receive Short Term Avoided Cost Rates equal to the payments received by the Company for the sale of QF generation to the ISO-NE power exchange, adjusted for line losses, wheeling costs and administrative costs incurred by the Company for the transaction. Projects shall be charged a standard monthly service fee for billing service as approved by the appropriate regulatory agency.

Wheeling Charges:

The Company reserves the right to impose any appropriate wheeling charges (including distribution wheeling charges) for generation transmitted through the Company and sold to ISO-NE and others as may be approved by the appropriate regulatory agency.

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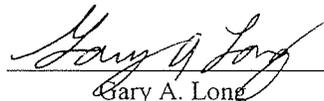
### 35. Line Extensions

In areas in which Delivery Service by the Company is authorized, service is available under residential Delivery Service Rate Schedules Rate R and Rate R-OTOD and General Delivery Service Rate Schedules Rate G and Rate G-OTOD as follows:

- a. To all Customers on distribution lines as of July 1, 2007;
- b. To all Customers who can be served from overhead, single-phase extensions of existing distribution lines which average 300 feet or less per Customer, exclusive of normal service loops;
- c. To Customers who can be served from overhead, single-phase extensions along public highways, except for normal service loops, of existing distribution lines which average more than 300 feet per Customer but less than 5,280 feet per Customer and who have signed an agreement to pay monthly surcharges for a period of sixty (60) consecutive months equal in total to \$14.00 per 100 feet per month (14.0 cents per foot per month) of line in excess of 300 feet per Customer, each Customer's share of the total to be computed by allocating such total proportionally among the Customers to be served on the basis of the relative lengths of line required to serve each (after excluding the first 300 feet of line per Customer);
- d. To Customers who can be served from overhead, three-phase extensions along public highways, except for normal service loops, of existing distribution lines and who have signed an agreement to pay monthly surcharges for single-phase service in accordance with (c.) above and who have also signed an agreement to pay additional monthly surcharges for a period of sixty (60) consecutive months equal in total to 2.0% per month of the additional investment required to provide three-phase service over and above the investment required to provide single-phase service, including the cost of rebuilding existing facilities and adding phase wires where necessary but excluding the first \$525 per Customer for such additional investment and excluding the investment in service loops, meters and transformers;
- e. To Customers who would otherwise qualify for service under c. or d. above but who must be served from extensions located in whole or in part (exclusive of normal service loops) on private property, subject to the following provisions:
  - (1) An extension on private property will be made only if:

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- c. To Customers who can be served from overhead, single-phase extensions along public highways, except for normal service loops, of existing distribution lines which average more than 300 feet per Customer but less than 5,280 feet per Customer and who have signed an agreement to pay monthly surcharges for a period of sixty (60) consecutive months equal in total to \$14.00 per 100 feet per month (14.0 cents per foot per month) of line in excess of 300 feet per Customer, each Customer's share of the total to be computed by allocating such total proportionally among the Customers to be served on the basis of the relative lengths of line required to serve each (after excluding the first 300 feet of line per Customer);
- d. To Customers who can be served from overhead, three-phase extensions along public highways, except for normal service loops, of existing distribution lines and who have signed an agreement to pay monthly surcharges for single-phase service in accordance with (c.) above and who have also signed an agreement to pay additional monthly surcharges for a period of sixty (60) consecutive months equal in total to 2.0% per month of the additional investment required to provide three-phase service over and above the investment required to provide single-phase service, including the cost of rebuilding existing facilities and adding phase wires where necessary but excluding the first \$525 per Customer for such additional investment and excluding the investment in service loops, meters and transformers;
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  - (1) An extension on private property will be made only if:

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**Public Service Company of New Hampshire**

**Interconnection Standards  
for Inverters Sized Up to 100 KVA**

December 2008



**Public Service  
of New Hampshire**

The Northeast Utilities System

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

## 1.0 Introduction

### 1.1 Applicability

This document (“Interconnection Standard”) describes the process and requirements for an Interconnecting Customer to connect a Listed inverter based Facility sized up to 100 kVA to the Company’s Electric Power System (“Company EPS”), including discussion of technical and operating requirements, and other matters. Non-inverter based Facilities will need to follow the standard interconnection procedures.

If the Facility will always be isolated from the Company’s EPS, (i.e., it will never operate in parallel to the Company’s EPS), then this Interconnection Standard does not apply.

### 1.2 Definitions

The following words and terms shall be understood to have the following meanings when used in this Interconnection Standard:

**Affiliate:** A person or entity controlling, controlled by or under common control with a Party.

**Anti-Islanding:** Describes the ability of a Facility to avoid unintentional islanding through some form of active control technique.

**Application:** The notice provided by the Interconnecting Customer to the Company in the form shown in Exhibit A, which initiates the interconnection process.

**Area Network Distribution System:** Electrical service from an EPS consisting of one or more primary circuits from one or more substations or transmission supply points arranged such that they collectively feed secondary circuits serving more than one Interconnecting Customer.

**Commission:** The New Hampshire Public Utilities Commission.

**Company:** Granite State Electric Company, Unitil Energy Systems, Inc, Public Service Company of New Hampshire.

**Customer:** Company’s retail customer; host site or premises, may be the same as Interconnecting Customer.

**EPS:** The electric power system owned, controlled or operated by the Company used to provide distribution service to its Customers.

**Facility:** A source of electricity that is located on the Customer’s side of the point of common coupling, and all facilities ancillary and appurtenant thereto, including interconnection equipment, which the Interconnecting Customer requests to interconnect to the Company EPS.

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

**In-Service Date:** The date on which the Facility and System Modifications (if applicable) are complete and ready for service, even if the Facility is not placed in service on or by that date.

**Interconnecting Customer:** Entity that takes electric service from the Company who has or will obtain legal authority to enter into agreements regarding the interconnection of the Facility to the Company EPS.

**Interconnection Service Agreement:** An agreement for interconnection service, the form of which is provided in Exhibit A, between the Interconnecting Customer and the Company.

**Islanding:** A situation where electrical power remains in a portion of an electrical power system when the Company's transmission or distribution system has ceased providing power for whatever reason (emergency conditions, maintenance, etc.). Unintentional Islanding, especially past the PCC, is to be strictly avoided.

**Isolated:** The state of operating the Facility when electrically disconnected from the Company EPS on the Interconnecting Customer's side of the PCC.

**Listed:** A Facility that has been tested and certified by a nationally recognized testing laboratory to comply with all requirements in UL Standard 1741.1 dated May, 2007 or later.

**Net Metering:** A customer of the Company with a renewable on-site Facility of 100 kilovolt-amperes ("kVA") or less in size exercising the option to run the meter backward and thus choosing to receive a credit from the Company where in any month during which there was a positive net difference between kilowatt hours generated and consumed, the credit will equal the positive net difference. This credit is then used by the Customer in subsequent billing periods, until exhausted before purchasing energy from the Company.

**Non-Islanding:** Describes the ability of a Facility to avoid unintentional islanding through the operation of its interconnection equipment.

**Parallel:** The state of operating the Facility when electrically connected to the Company EPS (sometimes known as grid-parallel).

**Parties:** The Company and the Interconnecting Customer.

**Point of Common Coupling (PCC):** The point where the Interconnecting Customer's local electric power system connects to the Company EPS, such as the electric power revenue meter or premises service transformer. See the Company for the location at a particular Interconnecting Customer site.

**Radial Distribution Circuit:** Electrical service from an EPS consisting of one primary circuit extending from a single substation or transmission supply point arranged such that the primary circuit serves Interconnecting Customers in a particular local area.

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

**Screen(s):** Criteria by which the Company will determine if a proposed Facility's installation will adversely impact the Company EPS in the Simplified Processes as set forth in Section 3.0.

**Simplified Process:** As described in Section 3.1, process steps from initial application to final written authorization for certain Listed inverter-based Facilities of limited scale and minimal apparent grid impact.

**Spot Network Distribution System:** Electrical service from an EPS consisting of one or more primary circuits from one or more substations or transmission supply points arranged such that they collectively feed secondary circuits serving only one Interconnecting Customer.

**Supplemental Review:** Additional engineering study to evaluate the potential impact of Facilities over 10 kVA on the Company EPS so as to determine any requirements for processing the application, or Facilities of 10 kVA or smaller that fail one of the Simplified Process screens. This review is charged at a cost of \$125.00 per hour up to a limit of 10 hours. If Company services are needed to install temporary metering to complete the Supplemental Review, then these charges will also be included as part of the overall review.

**System Modification:** Modifications or additions to distribution-related Company facilities that are integrated with the Company EPS for the benefit of the Interconnecting Customer and paid for by the Interconnecting Customer.

**Unintentional Islanding:** A situation where the electrical power from the Facility continues to supply a portion of the Company EPS past the PCC when the Company's transmission or distribution system has ceased providing power for whatever reason (emergency conditions, maintenance, etc.).

**Witness Test:** The Company's right to witness the commissioning testing. Commissioning testing is defined in IEEE Standard 1547-2003.

### 1.3 Forms and Agreements

The following documents for the interconnection process are included as Exhibits:

1. Application forms:
  - a. Simplified Process (Facilities meeting the requirements of Section 3.1) application form and service agreement (Exhibit A)
  - b. Certificate of Completion (Exhibit B)
2. Supplemental Review Agreement for those projects which have failed one or more screens in the Simplified Process (Exhibit C).

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

## **2.0 Basic Understanding**

Interconnecting Customer intends to install a Listed inverter based Facility on the Customer's side of the PCC that will be connected electrically to the Company EPS and operate in parallel, synchronized with the voltage and frequency maintained by the Company during all operating conditions. It is the responsibility of the Interconnecting Customer to design, procure, install, operate, and maintain all necessary equipment on its property for connection to the Company EPS. The Interconnecting Customer and the Company shall enter into a Simplified Process Application and Interconnection Service Agreement to provide for parallel operation of an Interconnecting Customer's Facility with Company EPS. A form of this agreement is attached as Exhibit A to this Interconnection Standard.

The equipment, controls and other facilities that together constitute the interconnection of the Facility with the Company EPS must be reviewed for potential impact on the Company EPS under the process described in Section 3.0.

The Interconnecting Customer should consult the Company before designing, purchasing and installing any generation equipment, in order to verify the nominal utilization voltages, frequency, and phase characteristics of the service to be supplied, the capacity available, and the suitability of the proposed equipment for operation at the intended location. Attempting to operate a Facility at other than its nameplate characteristics may result in unsatisfactory performance or, in certain instances, injury to personnel and/or damage to equipment. The Interconnecting Customer will be responsible for ascertaining from the Company, and the Company will cooperate in providing, the service characteristics of the Company EPS at the proposed PCC. The Company will in no way be responsible for damages sustained as a result of the Interconnecting Customer's failure to ascertain the service characteristics at the proposed PCC.

The Facility should operate in such a manner that does not compromise, or conflict with, the safety or reliability of the Company EPS. The Interconnecting Customer should design its equipment in such a manner that faults or other disturbances on the Company EPS do not cause damage to the Interconnecting Customer's equipment.

Authorization to interconnect will be provided once the Interconnecting Customer has met all terms of the interconnection process as outlined below.

This Interconnection Standard does not cover general distribution service needed to serve the Interconnecting Customer. Please refer to the Company's Terms and Conditions for Distribution Service. This Interconnection Standard does not cover the use of the distribution system to export power, or the purchase of excess power.

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

### 3.0 Process Overview

This application process is for Listed inverter-based Facilities with a power rating of 100 kVA or less depending on the service configuration, and located on a radial EPS under certain conditions. A Listed inverter-based Facility with a power rating of 10 kVA or less single-phase located on a spot network EPS under certain conditions would also be eligible.

Listed inverter based interconnections are intended to be reviewed promptly under a Simplified Process. A set of review screens have been developed to determine if the application fits the Simplified Process and are described below and detailed in Figures 1 and 2 with their accompanying notes. Table 1 describes the timelines for these paths. Unless otherwise noted, all times in the Interconnection Standard reference Company business days under normal work conditions.

A project that fails to meet the Simplified review screens will be addressed using the Company's standard interconnection review practices. In cases where the Facility is larger than 10 kVA, a Supplemental Review will be conducted. In addition a Supplemental Review may be required which may allow an interconnection of 10 kVA or smaller to be accommodated at a particular site even though it did not pass the Simplified review screens. In these instances, the Company will provide an estimated cost to do a Supplemental Review to the Interconnecting Customer. If the Interconnecting Customer funds the Supplemental Review, the Company will undertake the review to determine which of the following apply:

- No system modifications are required and the simplified process can be used.
- System modifications are required at the Customer's expense before the simplified process can be used. A statement will be sent to the Customer describing the required modification and a bill for the estimated amount.
- The simplified process cannot be used and the Customer must reapply using the Company's standard interconnection process.

All proposed new sources of electric power that plan to operate in parallel with the Company EPS must submit a completed application to the Company within the Company's franchise territory where the Facility will be located. The Interconnecting Customer will be notified of the application's completeness. Interconnecting Customers proposing to interconnect on area networks require a detailed review of the planned interconnection and do not qualify for the Simplified Process. All applications from other Interconnecting Customers must proceed through a series of screens to determine if they meet the requirements for the Simplified Process interconnection path.

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

### 3.1 Simplified Process

Interconnecting Customers using Listed single-phase inverter-based Facilities with power ratings of 100 kVA or less at locations receiving single-phase service from a single-phase transformer, or using Listed three-phase inverter-based Facilities with power ratings of 100 kVA or less at locations receiving three-phase service from a three-phase transformer configuration, and requesting an interconnection on radial EPSs where the aggregate Facility capacity on the circuit is less than 7.5% of circuit annual peak load qualify for Simplified interconnection.

The Simplified Process is as follows:

- a. Application process:
  - i. Interconnecting Customer submits a Simplified Process application filled out properly and completely (Exhibit A).
  - ii. Company evaluates the application for completeness and notifies the Interconnecting Customer within 10 business days of receipt that the application is or is not complete and, if not, advises what is missing.
- b. Company verifies Facility equipment passes screens 1, 2, and 3 in Figure 1 if a radial EPS, or the screens in Figure 2 if a spot network EPS.
- c. If approved, the Company signs the application approval line and returns the approved application to the Interconnecting Customer. In certain circumstances, the Company may require the Interconnecting Customer to pay for System Modifications before the application is approved. If so, a description of work and an estimate of the cost will be sent back to the Interconnecting Customer for approval. The Interconnecting Customer would then approve via a signature and submit payment for any System Modifications. If the Interconnecting Customer approves, the Company performs the System Modifications. Then, the Company signs the application approval line and sends to the Interconnecting Customer.
- d. Upon receipt of application signed by the Company, the Interconnecting Customer installs the Facility. Then the Interconnecting Customer arranges for inspection of the completed installation by the local electrical wiring inspector, or other authority having jurisdiction, and this person signs the Certificate of Completion. If the Facility was installed by an electrical contractor, this person also fills out the Certificate of Completion.
- e. The Interconnecting Customer returns Certificate of Completion to the Company.

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INTERCONNECTION STANDARDS FOR INVERTERS  
SIZED UP TO 100 KVA (Continued)

- f. Following receipt of the Certificate of Completion, the Company may inspect the Facility for compliance with standards by arranging for a Witness Test. The Interconnecting Customer has no right to operate in parallel until a Witness Test has been performed or has been previously waived by the Company on the Application Form. If the Company elects to conduct a Witness Test, every attempt will be made to conduct it within 10 business days of the receipt of the Certificate of Completion. All projects larger than 10 kVA will need to be witness tested, unless waived by the Company.
  
- g. Assuming the wiring inspection and/or Witness Test is satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized. If the Witness Test is not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required for approval.

If the Interconnecting Customer does not substantially complete construction within 12 months after receiving application approval from the Company, the Company will require the Interconnecting Customer to reapply for interconnection.

### **3.2 Time Frames**

Unless otherwise noted, all days in the Interconnection Standard reference Company business days under normal work conditions.

Table 1 lays out the maximum timeframes allowed under the Simplified Review process. The maximum time allowed for the Company to execute the entire Simplified Process is 20 days.

### **3.3 Fees**

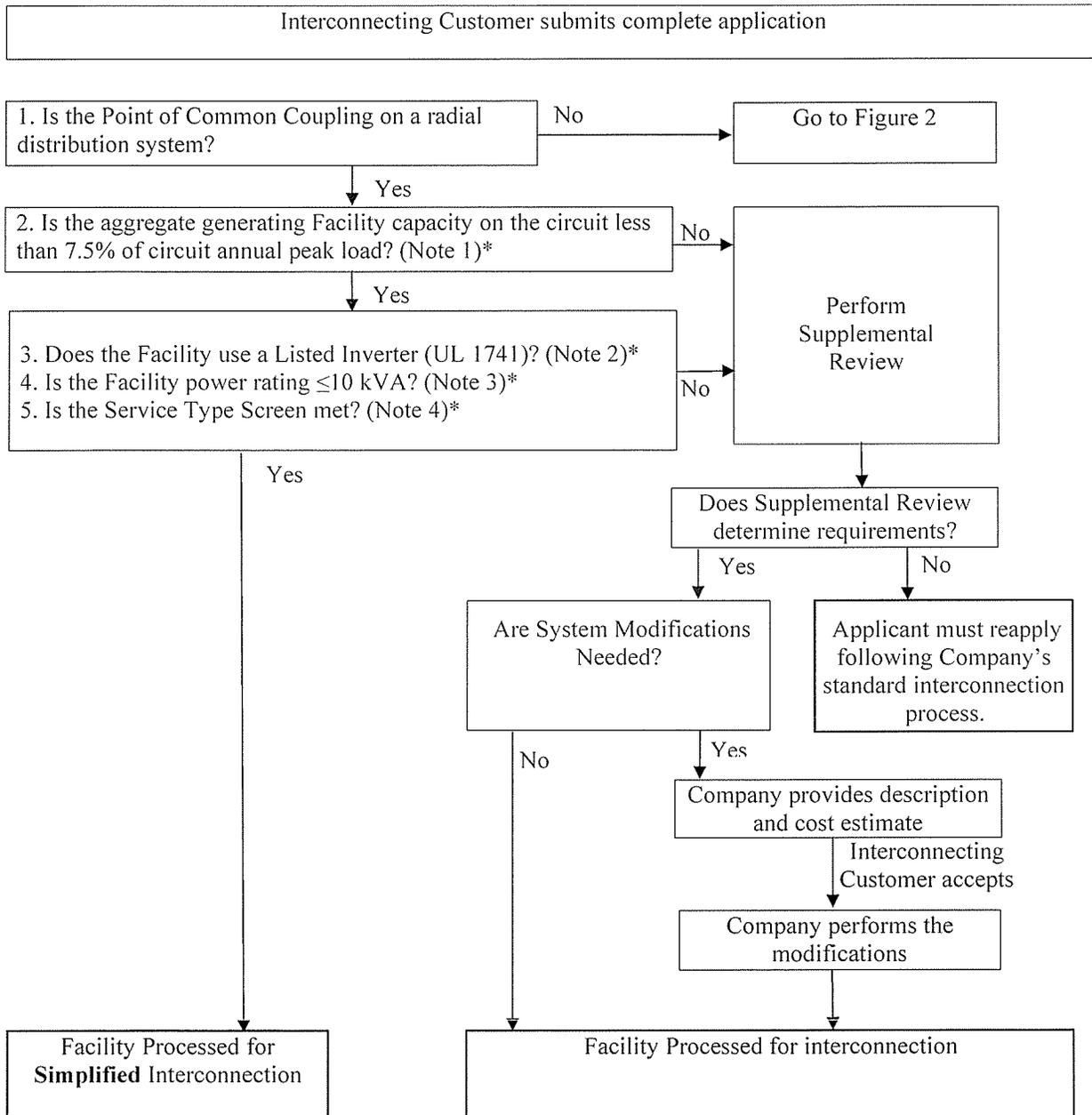
There are no fees for those Facilities that qualify for the Simplified Process on a radial EPS (except in certain cases where a System Modification would be needed for which the Interconnecting Customer would pay).

In cases where the Facility is larger than 10 kVA, or does not pass the other screens, a Supplemental Review will be conducted. In these instances, the Company will provide a cost estimate to do a Supplemental Review to the Interconnecting Customer.

This review is charged at a cost of \$125.00 per hour. If Company services are needed to install temporary metering to complete the Supplemental Review, then these charges will also be included as part of the overall review.

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

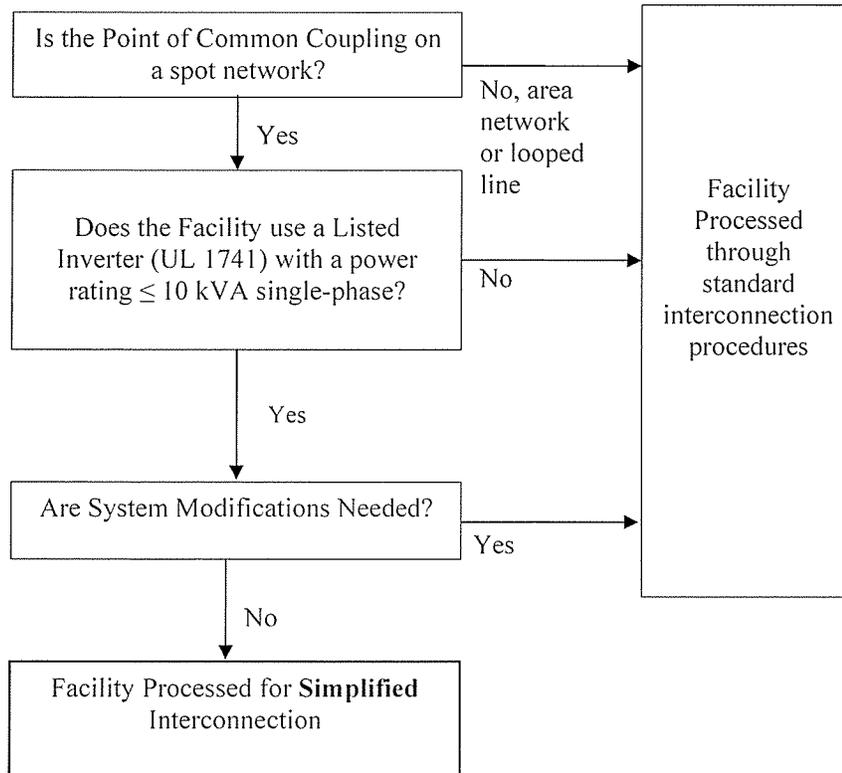
**Figure 1 – Inverter Based Simplified Interconnection Process**



\*See Page 10 for Notes

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INTERCONNECTION STANDARDS FOR INVERTERS  
SIZED UP TO 100 KVA (Continued)

**Figure 2 – Simplified Interconnection to Networks**



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**Explanatory Notes to Accompany Figure 1**

**Note 1.** On a typical radial distribution EPS circuit (“feeder”) the annual peak load is measured at the substation circuit breaker, which corresponds to the supply point of the circuit. A circuit may also be supplied from a tap on a higher-voltage line, sometimes called a subtransmission line. On more complex radial EPSs, where bidirectional power flow is possible due to alternative circuit supply options (“loop service”), the normal supply point is the loop tap.

**Note 2.** New Hampshire has adopted UL1741 (Inverters, Converters and Charge Controllers for Use in Independent Power Systems) as an acceptable standard for power systems to comply with IEEE Std 1547 and 1547.1. Equipment listed to UL1741 by a nationally recognized testing laboratory will be considered in compliance with IEEE Std 1547 and 1547.1. An Interconnecting Customer should contact the Facility supplier(s) to determine if its equipment has been listed to either of these standards.

**Note 3.** Facilities with a power rating above 10 kVA will be required to install a fully rated, lockable disconnect switch. The disconnect switch will be located near the service entrance for use by utility personnel.

**Note 4.** This screen includes a review of the type of electrical service provided to the Interconnection Customer, including the service transformer configuration and service type to limit the potential for creating unacceptable voltage imbalance, over-voltage or under-voltage conditions, or service equipment overloads on the Company EPS due to a mismatch between the size and phasing of the energy source, the service loads fed from the service transformer(s), and the service equipment ratings.

To be eligible for the Simplified Process, a Listed inverter-based Facility must be either (1) a single-phase unit on a customer’s local EPS receiving single-phase secondary service at the PCC from a single-phase service transformer, or (2) a three-phase unit on a customer’s local EPS receiving three-phase secondary service at the PCC from a three-phase transformer configuration.

If the proposed Facility is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition will not create an imbalance between the two sides of the 240 volt service of more than 20% of nameplate rating of the service transformer.

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

**Table 1 – Time Frames**

<b>Review Process</b>	<b>Simplified</b>	<b>Simplified Spot Network</b>
<b>Eligible Facilities</b>	<b>Listed Small Inverter</b>	<b>Listed Inverter <math>\leq</math> 10 kVA single-phase</b>
<b>Review Application for completeness</b>	10 days	10 days
<b>Complete Review of all screens</b>	10 days	Site review 30 days if load is known or can be estimated 90 days if load has to be metered
<b>Complete Supplemental Review (if needed) – Note 1</b>		
<b>Total Maximum Days</b>	20 days	100 days
<b>Notice/ Witness Test</b>	< 1 day with 10 day notice or by mutual agreement	1 day with 10 day notice or by mutual agreement
<b>Send Approval to Interconnector</b>		

NOTE 1: When a Supplemental Review is involved, the timelines for a Simplified Process no longer apply, however, the Company will complete the Supplemental Review within 40 days.

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**Exhibit A – Simplified Process Interconnection Application**

**Instructions** *(please do not submit this page)*

General Information: If you, the Interconnecting Customer, wish to submit an application to interconnect your generating Facility using the Simplified Process (reference Section 3.1 of the Interconnection Standard for eligibility) please fill out the attached application form completely (not including this page of instructions), including your signature in the space provided. Interconnections that may be eligible for this Simplified Process include UL 1741-Listed inverter-based Facilities that are either (1) connecting to radial electric power systems with power ratings of  $\leq 100$  kVA, or (2) connecting to spot network electric power systems with power ratings of  $\leq 10$  kVA single-phase. Please attach any documentation provided by the inverter manufacturer concerning the UL 1741. Facilities larger than 10 kVA will be required to install a fully rated lockable switch near the service entrance for use by utility personnel.

Mail all material to: COMPANY SPECIFIC ADDRESS

The Simplified Process is as follows:

1. Application process:
  - a. Interconnecting Customer submits a Simplified Application filled out properly and completely.
  - b. Company evaluates the application for completeness and notifies the Interconnecting Customer within 10 business days of receipt that the application is or is not complete and, if not, advises what is missing.
2. Company verifies Facility equipment can be interconnected safely and reliably.
3. If approved, the Company signs the application and returns a copy to the Interconnecting Customer.
4. Upon receipt of the signed application, the Interconnecting Customer installs the Facility. Then the Interconnecting Customer arranges for inspection of the completed installation by the local electrical wiring inspector, or other authority having jurisdiction, and this person signs the Certificate of Completion. If the Facility was installed by an electrical contractor, this person also fills out the Certificate of Completion.
5. In certain circumstances, the Company will require the Interconnecting Customer to pay for System Modifications. If so, a description of work and an estimate will be sent back to the Interconnecting Customer for approval. The Interconnecting Customer would then approve via a signature and payment for the System Modifications. If the Interconnecting Customer approves, the Company performs the System Modifications. Then, the Company signs the application and sends the approved application back to the Interconnecting Customer.
6. The Interconnecting Customer returns the Certificate of Completion to the Company.
7. Following receipt of the Certificate of Completion, the Company may inspect the Facility for compliance with standards by arranging for a Witness Test. Except for a short test by the installer to confirm the system works properly, the Interconnecting Customer has no right to operate in parallel (interconnect) until a Witness Test has been performed or has been previously waived by the Company on the Application Form. The Company will make every attempt to complete this Witness Test within 10 business days of its receipt of the Certificate of Completion. All projects larger than 10 kVA will need to be witness tested, unless waived by the Company.
8. Assuming the wiring inspection and/or Witness Test is satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized. If the Witness Test is not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required for approval.

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INTERCONNECTION STANDARDS FOR INVERTERS  
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Contact Information: You must provide the contact information for the legal applicant (i.e. the Interconnecting Customer). If other parties are responsible for interfacing with the Company, you should provide their contact information as well.

Ownership Information: Please enter the legal names of the owner or owners of the Facility.

Generating Facility Information: Please consult an actual electric bill from the Electric Service Company and enter the correct Account Number and meter number on this application. If the facility is to be installed in a new location, a temporary number may be assigned by the Electric Company.

Confidentiality: Information on this form will be shared with the Commission and other State Agencies as required.

UL 1741 Listed: 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.

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

**Simplified Process Interconnection Application and Service Agreement**

Contact Information: Date Prepared: \_\_\_\_\_  
Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)  
Customer or Company Name (print): \_\_\_\_\_  
Contact Person, if Company: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

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: \_\_\_\_\_ Telephone: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Facility Information:  
Address of Facility: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Electric Service Company: \_\_\_\_\_ Account Number: \_\_\_\_\_ Meter Number: \_\_\_\_\_  
Inverter Manufacturer: \_\_\_\_\_ Model Name and Number: \_\_\_\_\_ Quantity: \_\_\_\_\_  
Nameplate Rating: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ (AC Volts) Single \_\_\_\_\_ or Three \_\_\_\_\_ Phase  
System Design Capacity: \_\_\_\_\_ (kVA) \_\_\_\_\_ (kVA)  
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 \_\_\_\_\_  
UL 1741.1 (IEEE 1547.1) Listed? Yes \_\_\_\_\_ No \_\_\_\_\_  
Estimated Install Date: \_\_\_\_\_ Estimated In-Service Date: \_\_\_\_\_

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 on the following page:  
Customer Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

*Please attach any documentation provided by the inverter manufacturer describing the inverter's UL 1741 listing.*

Approval to Install Facility (For Company use only)  
Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required (Are system modifications required? Yes \_\_\_ No \_\_\_ To be Determined \_\_\_)  
Company Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
**Company waives inspection/Witness Test? Yes \_\_\_ No \_\_\_**

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

**Terms and Conditions for Simplified Process Interconnections**

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).

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): \_\_\_\_\_

Contact Person, if Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Address of Facility (if different from above): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Electrical Contractor's Name (if appropriate): \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

License number: \_\_\_\_\_

Date of approval to install Facility granted by the Company: \_\_\_\_\_

Application ID number: \_\_\_\_\_

Inspection:

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

\_\_\_\_\_  
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection): \_\_\_\_\_

Name (printed): \_\_\_\_\_

Date: \_\_\_\_\_

As a condition of interconnection you are required to send/fax a copy of this form to :

Company: Public Service Company of New Hampshire  
Name: Supplemental Energy Sources Department  
Mail 1: 780 North Commercial Street  
Mail 2: P. O. Box 330  
City, State ZIP: Manchester, NH 03105-0330  
Fax No.: (603) 634-2449

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

**Exhibit C – Supplemental Review Agreement**

This Agreement, dated \_\_\_\_\_, is entered into by and between  
(name, address) \_\_\_\_\_

(“Interconnecting Customer”) and the Company, for the purpose of setting forth the terms, conditions and costs for  
conducting a Supplemental Review relative to the Interconnection Process as defined in Section 1.0 and outlined in Section  
3.0 of the Interconnection Standard. This Supplemental Review pertains to the interconnection application the  
Interconnecting Customer has filed for interconnecting a \_\_\_\_\_ kVA Facility  
at (address of Facility) \_\_\_\_\_

If the Supplemental Review determines the requirements for processing the application including any System Modifications,  
then the modification requirements and costs for those modifications will be identified and included in a billing statement  
sent by the Company to the Interconnecting Customer for authorization and payment. If the Supplemental Review does not  
determine the requirements, it will include a proposed Impact Study Agreement as part of the Company’s standard  
interconnection process which will include an estimate of the cost of the study.

The Interconnecting Customer agrees to provide, in a timely and complete manner, all additional information and technical  
data necessary for the Company to conduct the Supplemental Review not already provided in the Interconnecting Customer’s  
application.

All work pertaining to the Supplemental Review that is the subject of this Agreement will be approved and coordinated only  
through designated and authorized representatives of the Company and the Interconnecting Customer. Each party shall  
inform the other in writing of its designated and authorized representative, if different than what is in the application.

The Company shall perform the Supplemental Review for a fee not to exceed \$1,250. The Company anticipates that the  
Supplemental Review will cost \$ \_\_\_\_\_. No work will be performed until payment is received.

Please indicate your acceptance of this Agreement by signing below.

\_\_\_\_\_  
Interconnecting Customer