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1.0 Introduction and Executive Summary

1.1 Introduction

Welcome! These Guidelines have been prepared to assist power-generating customers wishing to interconnect with the Eversource (New Hampshire) Electric Power System (the “EPS”).

Eversource is responsible for the distribution of electric power throughout much of the State of New Hampshire. To carry out its responsibilities to all customers, Eversource must assure that all Generator Interconnections are made according to certain protocols and procedures, which are described in more detail in these Guidelines.

These Guidelines are provided solely as information for the benefit of prospective Generators seeking to interconnect with Eversource’s EPS and are subject to the requirements or limitations contained in Eversource’s tariff, as well as any applicable orders, rules, regulations, or laws.

These Guidelines do not apply to certified inverter-based Generating Facilities of 100 kVA and less. Separate guidelines, entitled “Interconnection Standards for Inverters Sized Up To 100 kVA,” were created for such Generating Facilities.

These Guidelines do not apply to requests to connect to Eversource transmission equipment (115 kV and higher).

To the extent that any information within these Guidelines is, or may be, inconsistent with the New Hampshire Code of Administrative Rules – Chapter Puc 900 (“Net Metering”), or other relevant regulations, then Chapter Puc 900 or the relevant regulation shall apply.

To the extent that any information within these Guidelines is, or may be, inconsistent with the “Net Metering Program Capacity Allocation Procedures” (from NHPUC docket DE 15-271), then the DE 15-271 procedures shall apply.

Generators intending to make an Interconnection are advised to: (i) refer to the “Information and Technical Requirements for the Interconnection of Distributed Energy Resources (DER)”, attached hereto as Exhibit A, for guidance in the design of the Generating Facility and the Interconnection Facility; (ii) consult with Eversource prior to purchase of equipment in connection with the proposed Interconnection; and (iii) contact the Eversource Distributed Generation group (nhdg@eversource.com) to determine where and how to apply. To the extent a prospective Generator has any question on the
applicability or interpretation of these Guidelines, Generators are advised to contact the
Eversource Distributed Generation group (nhdg@eversource.com).

Note regarding Sales of Energy and Capacity and ISO-NE Compliance

Sales of electrical products produced by the Generator are not addressed herein. The
Generator is required to act as their own representative in all matters related to ISO-NE.
Eversource will work with the Generator, at their specific request, to ensure proper
registration of the Generator within the ISO-NE markets. Certain markets require
applications and qualification processes with very long lead times (e.g. the capacity market
may require registration more than 3 years in advance). The Generator is advised to be
informed in how the ISO-NE market rules influence the revenues applicable to individual
generators and is advised to hire a knowledgeable ISO-NE consultant, if desired.
This document does not address eligibility or options for sales of power to Eversource (i.e.
net metering or qualifying facility tariff sales).

1.2 Executive Summary

This Executive Summary provides a quick overview of the Interconnection process and is
not meant to replace the more detailed description of requirements contained in the
remainder of these Interconnection Guidelines.

The first step of the Interconnection process is to identify under which jurisdiction an
Interconnection falls; the Federal Energy Regulatory Commission (FERC) or the State of
New Hampshire Public Utilities Commission (NHPUC). Generators that intend to
interconnect to the EPS and sell power or ancillary services to a third party, or in the
wholesale market may under certain circumstances fall under FERC jurisdiction. State
(NHPUC) jurisdictional interconnection applications are administered by Eversource,
while FERC jurisdictional applications are administered by the Independent System

Generators should contact Eversource DG to determine the appropriate
jurisdiction for their project. At that time, DG, in consultation with other Eversource
and/or ISO-NE staff, will examine the proposed point of interconnection and determine
whether the interconnection falls under New Hampshire State jurisdiction or the
jurisdiction of the FERC. If the project is FERC jurisdictional, the Generator will be
instructed to follow ISO-NE tariff Schedule 22 or Schedule 23 to continue the
interconnection process. If the project is State jurisdictional, this document will direct the
process.

The jurisdictional determination primarily involves whether the proposed generator will be
interconnecting to a Eversource distribution facility that is subject to the ISO-NE tariff.
Resolution of that question requires a review, among other things, of other generating
resources or wholesale transactions located on the same Eversource distribution facility.
In this context, “distribution facility” is interpreted as the entire Eversource electrical
SECTION 1

circuit path all the way back to the transmission-to-distribution substation, and shall include taps off from that circuit that are at similar or lower voltages. If the distribution facility (as defined) already has an interconnected generator that is registered in any ISO-NE administered market, or if the distribution facility supports a FERC-jurisdictional wholesale transaction (e.g. delivery point with the New Hampshire Electric Co-op), then the facility is considered FERC-jurisdictional and, therefore, the proposed new generator must follow the FERC / ISO-NE process. Certain exemptions apply, e.g. generators selling 100% of their output to Eversource (e.g. via net metering tariff) are State jurisdictional.

FERC Jurisdictional Interconnections:

Generators seeking to Interconnect to the EPS whose Interconnections fall under FERC’s jurisdiction must submit their application to ISO-NE in accordance with the procedures in the ISO-NE Transmission, Markets and Services Tariff (ISO-NE Tariff), Schedule 22 (for Generators larger than 20 MW) or Schedule 23 (for Generating Facilities up to and including 20 MW). ISO-NE will administer the interconnection process.

State Jurisdictional Interconnections:

The state-jurisdictional Interconnection process begins when a Generator submits a Eversource Generator Interconnection Request (IR) to Eversource. Eversource will review the application and submittals and work with the customer to resolve any discrepancy and obtain any missing information. Eversource will complete the application review within ten (10) Business Days and notify the Generator. **Note: effective January 1, 2015 all projects must submit a Pre-Application form (available on the website) and the applicable fee in addition to submitting the Interconnection Request (IR).** This allows Eversource DG staff the opportunity to prepare an overview of the proposed project, the site, and nearby Eversource distribution circuits to facilitate the scoping meeting and interconnection study process described herein.

Upon completion of the IR review, Eversource will provide a System Impact Study Agreement and an estimate of the costs to complete the Study. Eversource will request that the Generator execute the Agreement within ten (10) Business Days and pay a deposit towards the estimated cost of the Study.

Transmission studies may be required for some Interconnections. Transmission studies must be conducted in accordance with applicable ISO-NE rules and procedures. These Guidelines do not address the transmission studies process required by ISO-NE. The Generator may obtain guidance from the ISO-NE Tariff, Schedule 22 and 23 and Section I.3.9. However, during the Interconnection process, Eversource will provide guidance including information concerning the scope, duration and cost of the transmission studies.

After the System Impact Study (and the Facility Study, if required), Eversource will submit an Interconnection Agreement (IA) to the Generator. The Generator will be required to sign the IA and submit full payment for the estimated costs for upgrades required to
interconnect the Generating Facility. After the project is interconnected, Eversource will reconcile actual vs. estimated cost and reimburse or invoice the Generator accordingly. For projects interconnection behind a retail customer meter, the Interconnection Agreement shall be between the retail customer and Eversource.

**Additional Process Steps for Generators greater than 1 MW:**

Regardless of the Interconnection jurisdiction, each Generator wishing to interconnect a Generating Facility larger than 1 MW must comply with the ISO-NE Planning Procedure 5 (PP5), which is the procedure for a Proposed Plan Application (PPA) under Section I.3.9 of the ISO-NE Tariff. This process must be completed before the Generator may interconnect such Generating Facility. It is important to note that the PPA process is an ISO-NE requirement, even if the Interconnection of such facility falls under state jurisdiction.

While the Generator is ultimately responsible for the PPA application and the associated data to be submitted to ISO-NE, Eversource will provide support to the Generator if the Generator is not a “Governance Participant” (as such term is defined in the Participants Agreement; among ISO-NE and the New England Power Pool) at the time the PPA is submitted to Eversource. Typically, Eversource will file the PPA on behalf of such non-Governance Participant Generator, however, the Generator must assist in the preparation of the filing documents.

Additionally, Eversource will represent such non-Governance Participant Generator in ISO-NE proceedings in accordance with the current ISO-NE rules; provided, however, that such Generator shall remain solely responsible for, among other things:

(a) the completion of the PPA and the accuracy of the information contained therein,

(b) the advance payment based on a non-binding good faith estimate of all costs in connection with any required Transmission System Impact Study, and

(c) the payment of all costs associated with transmission upgrades identified through the ISO-NE approval process.

Each non-Governance Participant Generator wishing to interconnect a Generating Facility larger than 1 MW must read and be familiar with PP5, Section I.3.9 of the ISO-NE Tariff and other relevant ISO-NE guidance on the PPA process. Further, such non-Governance Participant Generator can communicate directly with ISO-NE to seek assistance concerning the applicable PPA requirements and associated issues.

Governance Participants are responsible for filing their own PPA with the ISO-NE and representing themselves regarding all ISO-NE proceedings.
2.0 Pre-Application

2.1 Eversource DG will serve as the primary point of contact for all Interconnections. Copies of these Guidelines, information and forms can be obtained from Eversource DG.

2.2 Eversource Distributed Generation group can be contacted:

by phone: 1-603-634-2931; or
by email: nhdg@eversource.com
by mail or courier:

Eversource - Distributed Generation
P.O. Box 330
Manchester, NH 03105-0330

2.3 During the initial contact(s) with DG, the Interconnection Customer (IC or Generator) will be educated about the Eversource interconnection process and offered, either via email or link to the DG webpage, a copy of: 1) these Guidelines for Generator Interconnection; 2) the Information and Technical Requirements for DER (Exhibit A); 3) the Eversource Standard Interconnection Agreement (Exhibit B or B-1, as applicable); and 4) other procedures, forms or guidelines relevant to the process.

2.4 The IC shall submit a pre-application form (posted on the website) to request information about the EPS in the area of the proposed generator. Eversource DG will review the nearby circuits, substations, etc. and may conduct a brief meeting with Eversource System Planning and/or Eversource Distribution Engineering. DG may discuss with the IC, in general terms, the feasibility of the proposal and the types of system upgrades that may be required. Eversource reserves the right to charge a fee for pre-application reviews. More significant study efforts are discussed below.

Note: DG will only provide interconnection information, whether informal or through detailed studies, for specific generator proposals at specific generator locations.
3.0 Application

3.1 Applicability

3.1.1 These Guidelines are applicable to Interconnection Requests for Generating Facilities which fall under NHPUC jurisdiction. Generators unsure as to whether the proposed Interconnection is subject to these Guidelines should contact the Eversource DG group. To the extent that the requirements of this section are, or may be, inconsistent with the New Hampshire Code of Administrative Rules – Chapter Puc 900 (“Net Metering”) or other relevant regulations, or with relevant orders or directives of the NHPUC, then the NHPUC’s regulations, orders or directives shall apply.

3.1.2 Requests for Interconnection received by Eversource shall be processed as follows:

3.1.2.1 A request to interconnect a certified inverter-based Generating Facility no larger than 100 kVA shall be evaluated under the “Guidelines for Certified Inverter Based Generating Facilities, 100 kVA and Less” and in accordance with the applicable provisions of the Chapter Puc 900 of the NH PUC rules (“Net Metering for Customer-Owned Renewable Energy Generation Resources of 1,000 Kilowatts or Less”).

3.1.2.2 All other requests shall be evaluated under the Study Process (Section 4), as applicable.

3.2 Interconnection Request

3.2.1 Prior to making an Interconnection Request, Generators should contact Eversource DG to determine where to apply. If an Interconnection Request is sent to Eversource in error (e.g., FERC jurisdiction) Eversource will return such Interconnection Request to the Generator and direct the Generator to apply via ISO-NE.

3.2.2 Interconnection Requests will not be processed unless and until the Pre-Application process is complete.

3.2.3 An Interconnection Request must be in the form of Attachment I, and addressed to the appropriate Eversource DG contact. The Interconnection Request form may be updated from time-to-time. The latest version will be available on the Eversource website.

3.2.4 Within ten (10) Business Days of the receipt of the Interconnection Request, Eversource shall notify the Generator if such Interconnection Request is incomplete. The Generator will have fifteen (15) Business Days from the date of such notice to submit the listed information.
or to request an extension of time to provide such information. If the Generator does not
provide the listed information or a request for an extension of time within such fifteen (15)
day period, then the Interconnection Request will be deemed withdrawn, and such deemed
withdrawal shall be subject to Section 3.7. An Interconnection Request will be deemed
complete upon receipt of the listed information by Eversource.

3.3 Insurance Requirements

Generators interconnecting a Generating Facility to the EPS of Eversource shall maintain general
liability insurance in the amounts set forth in the following table, per Interconnection at all times
during the Interconnection. This requirement shall be incorporated into the Interconnection
Agreement (see Exhibit B or B-1 for detailed insurance requirements). Prior to interconnection, the
Generator shall have its insurer furnish to Eversource certificates of insurance evidencing the
required insurance coverage.

If the requirements of this section are inconsistent with the New Hampshire Code of Administrative
Rules – Chapter Puc 900 (“Net Metering”), then Chapter Puc 900 shall apply.

<table>
<thead>
<tr>
<th>Nameplate Rating*</th>
<th>Minimum Liability Insurance Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Greater than 500 kW</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Greater than 500 kW</td>
<td>$3,000,000</td>
</tr>
</tbody>
</table>

*All Nameplate Ratings are based on aggregate generation at the site.

3.4 Modification

Any modification to machine data, equipment configuration or the Interconnection site not agreed to
in writing by Eversource may be deemed a withdrawal of the Interconnection Request. In the event
of a deemed withdrawal, the provisions of Section 3.7 shall apply.

3.5 Site Control

Documentation evidencing site control must be submitted with the Interconnection Request. Site
control may be demonstrated through:

3.5.1 Ownership of, a leasehold interest in, or a right to develop a site for constructing the
Generating Facility;

3.5.2 An irrevocable option to acquire any of the property rights set forth in Section 3.5.1; or
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3.5.3 An exclusivity or other business relationship between the Generator and an entity having the right to sell, lease, or grant the Generator the right to possess or occupy a site for such purpose; or

3.5.4 Filed applications for required permits with respect to a site on Federal or State property.

3.6 Queue Position

3.6.1 Eversource shall assign to each project a queue position based upon the date that the Interconnection Request is deemed complete. The queue position of each Interconnection Request will be used to determine the cost responsibility for any EPS upgrades necessary to accommodate the Interconnection.

3.7 Withdrawal

3.7.1 The Generator may withdraw its Interconnection Request at any time by written notice of such withdrawal to Eversource.

3.7.2 In addition, if the Generator fails to adhere to all requirements of these Guidelines, subject to Section 3.7.3, Eversource shall deem the Interconnection Request to be withdrawn and shall provide written notice to the Generator of the deemed withdrawal and an explanation of the reasons for such deemed withdrawal.

3.7.3 Upon receipt of such written notice, if the Generator wishes to dispute the withdrawal notice, the Generator shall have fifteen (15) Business Days in which to respond with information or actions that cure the deficiency.

3.7.4 Withdrawal of an Interconnection Request shall result in the loss of queue position assigned to such Interconnection Request.

3.7.5 If a Generator disputes such withdrawal and loss of queue position, then the Generator’s Interconnection Request shall be removed from the queue until such time that the outcome of the dispute restores its queue position.

3.7.6 Within thirty (30) days following a withdrawal, a Generator that withdraws or is deemed to have withdrawn its Interconnection Request shall pay to Eversource and any Affected Parties all costs prudently incurred with respect to such Interconnection Request prior to the receipt of notices described Section 3.7.1 or 3.7.2.

3.7.7 A Generator (including affiliates) who fails to pay all monies due pursuant to Section 3.7.6 shall not be eligible to obtain any Interconnection Study reports or submit subsequent Interconnection Requests.
SECTION 4

4.0 Study Process

4.1 Applicability

The Study Process shall be used by a Generator proposing to interconnect its Generating Facility with the Distribution System if the Generating Facility is either non-inverter based or is inverter based and greater than 100 kVA.

4.2 Scoping Meeting

4.2.1 At the request of the Generator or Eversource, a Scoping Meeting shall be scheduled within ten (10) Business Days after the Interconnection Request is deemed complete, or as otherwise mutually agreed to by the Parties. Eversource, the Generator and any Affected Party(ies) will bring to the meeting personnel, including system engineers, and other resources as may be reasonably necessary to accomplish the purpose of the meeting.

4.2.2 The purpose of the Scoping Meeting is to discuss the Interconnection Request, review the appropriate jurisdiction for application submittal (if required), and review whether the proposed project will require a corresponding Transmission System Impact Study to be performed and to review existing studies relevant to the Interconnection Request. At the Scoping Meeting, the Parties shall discuss the scope of the Distribution and Transmission System Impact Studies.

4.2.3 Eversource shall provide the Generator, no later than five (5) Business Days after the scoping meeting, the appropriate System Impact Study agreement(s) including an outline of the scope of such System Impact Study and a non-binding good faith estimate of the cost to perform such System Impact Study. The form of System Impact Study Agreement (SISA) is attached hereto as Attachment II (and may change from time-to-time). The Generator must return the executed System Impact Study Agreement and associated deposit within fifteen (15) Business Days.

4.2.4 The SISA cost estimate may be based on a rough estimate of vendor costs. Once the SISA is executed and the deposit received, Eversource will obtain a project-specific study proposal and associated vendor quote. Should the quote differ significantly from the original SISA estimate, the SISA may be amended.
SECTION 4

4.3 System Impact Studies

4.3.1 The System Impact Studies shall (a) identify and detail the adverse EPS impacts that would result if the proposed Generating Facility were interconnected without project modifications (e.g. specific protection and control features) or electric system modifications, and/or (b) study potential impacts, including but not limited to those identified in the Scoping Meeting.

4.3.2 A payment of 100% of the good faith estimated System Impact Study costs shall be required from the Generator prior to initiation of the System Impact Studies. The scope of and cost responsibilities for the System Impact Study are more fully described in the System Impact Study Agreement (Attachment II), which may change from time-to-time.

4.3.3 Any Affected Parties shall be invited to participate in the System Impact Studies and provide information necessary or helpful to complete the System Impact Studies.

4.3.4 If the System Impact Study identifies that additional facilities and/or upgrades to the EPS are required, the review process shall proceed to the Facility Study. Eversource shall provide the Generator, no later than five (5) Business Days after delivery of the System Impact Study results, a Facility Study Agreement in the form of Attachment III, including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.

4.3.5 If the System Impact Study shows that no additional facilities or EPS upgrades are necessary such that a Facility Study is not required; or if Eversource determines that the System Impact Study has adequately specified the additional facilities or EPS upgrades, the Facility Study shall be waived and an Interconnection Agreement shall be provided to the Generator for execution within five (5) Business Days after the delivery of the System Impact Study results. The Generator must return the executed Interconnection Agreement within thirty (30) Business Days.

Note: The Facility Study may also be waived if the Parties mutually agree that final design and engineering (and associated cost estimation) of interconnection facilities and EPS upgrades can be accomplished under the terms of the Interconnection Agreement.

4.4 Facility Study

4.4.1 Within five (5) Business Days following receipt of the Facility Study Agreement described above, the Generator shall notify Eversource in writing as to whether it will either pursue the Facility Study or waive the Facility Study and elect an expedited Interconnection.
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4.4.1.1 If the Generator waives the Facility Study, it shall commit to appropriate milestones in the Interconnection Agreement, which may include: (a) siting approval by the appropriate regulatory authorities for the Generating Facility and Interconnection Facilities; (b) engineering of Interconnection Facilities and EPS upgrades; (c) the ordering of long lead time material by Eversource for Interconnection Facilities and EPS upgrades; (iv) an In-Service Date; and (v) Commercial Operation Date.

4.4.1.2 If the Generator does not waive the Facility Study, to remain under consideration for Interconnection and in Eversource’s Interconnection queue, the Generator must return the executed Facility Study Agreement and associated deposit within fifteen (15) Business Days following receipt of the Facility Study Agreement from Eversource.

4.4.2 The Facility Study shall specify and estimate the cost of the equipment, engineering, procurement and construction work (including overheads) needed to implement the conclusions of the System Impact Study.

4.4.3 Design for any required Interconnection Facilities and/or Generating Facility upgrades shall be provided for under the Facility Study Agreement. Eversource may contract with outside consultants to provide such design(s). The Generator, Eversource and any Affected Party(ies), may agree to allow the Generator to separately arrange for such design(s). In such cases, facilities design shall be subject to review and prior approval by Eversource, in accordance with the Facility Study Agreement. If the Parties agree to separately arrange for design and construction, and provided security and confidentiality requirements can be met, Eversource shall make sufficient information available to the Generator in accordance with confidentiality and critical infrastructure requirements to permit the Generator to obtain an independent design and cost estimate for any necessary facilities.

4.4.4 A payment of 100% of the good faith estimated Facility Study costs shall be required from the Generator prior to execution of the Facility Study.

4.4.5 The scope of and cost responsibilities for the Facility Study are described in the attached Facility Study Agreement.

4.4.6 Within thirty (30) Business Days of receipt of the Facility Study results, the Generator shall provide written notice whether it agrees to pay for the Interconnection Facilities and upgrades identified in the Facility Study. An executable Interconnection Agreement shall be tendered by Eversource to the Generator within five (5) Business Days of receipt of such written notice. The Generator must return the executed Interconnection Agreement and associated deposit within thirty (30) Business Days.
5.0 Provisions That Apply to All Interconnections and Associated Applications

5.1 Reasonable Efforts

Eversource shall make reasonable efforts to meet all time frames provided in these Guidelines; provided, however, that Eversource and the Generator may agree to different time frames. If Eversource fails to meet a deadline provided herein, it shall: (a) notify the Generator; (b) explain the reason for the failure to meet the deadline; and (c) provide an estimated date by which it will complete the applicable Interconnection procedure in the process.

5.2 Interconnection Metering

Any metering necessitated by the Generating Facility shall be installed at the Generator’s expense in accordance with Applicable Reliability Standards then in effect.

5.3 Commissioning

Commissioning tests of the Generator’s installed equipment shall be performed pursuant to applicable Codes and Standards, and equipment manufacturers’ recommendations. Upon request, the Generator shall provide a certified commissioning test procedure to Eversource for approval.

The list below is a list of tests commonly required by IEEE 1547 and is not intended to be a list of additional testing requirements:

- Current Transformer (CT) and CT circuit polarity, ratio, insulation, excitation, continuity and burden tests,
- Voltage Transformer (VT) and VT circuit polarity, ratio, insulation and continuity tests,
- Relay pick-up and time delay tests,
- Functional breaker trip tests from protective relays,
- Relay in-service test to check for proper phase rotation and magnitudes of applied currents and voltages,
- Breaker closing interlock tests, and
- Paralleling and disconnection operation.
- Anti-islanding function, if applicable.
- Non-export function, if applicable.
- Synchronizing Controls, if applicable.
- Proof of inability to create an unintentional island.
SECTION 5

Eversource shall be given at least ten (10) Business Days written notice, or as otherwise mutually agreed to by the Parties, of the tests and may be present to witness the commissioning tests. Eversource will not assist in performance of, or provide equipment for the commissioning test.

5.4 Periodic Interconnection Tests

Upon request, the Generator shall provide a written periodic Interconnection test procedure to Eversource. (Such procedures are typically provided by the equipment manufacturer.) The procedure shall describe a test process that will verify all Interconnection-related protective functions and associated batteries are functional, but need not replicate the commissioning test procedures. The interval between periodic tests shall be specified by the manufacturer, system integrator, the authority having jurisdiction over the Interconnection, or as specified in the Interconnection Agreement. Written test reports or a log for inspection shall be maintained by the Generator.

Eversource may audit the Generator’s written test reports, logs and other materials regarding the Interconnection or the Generating Facility at its discretion. If the functional software or firmware of the Interconnection system has been modified or if any hardware component of the Interconnection system has been modified, replaced or repaired with parts different from the tested configuration, and if such hardware, software or firmware have not been previously approved, then the applicable commissioning tests shall be performed by an independent testing facility. If such hardware, software or firmware has been previously approved or if settings have been changed, then only the commissioning tests applicable to the changes made shall be conducted. This requirement is in accordance with IEEE 1547.2.

5.5 Confidentiality

Eversource shall maintain confidentiality of all information provided by the Generator clearly designated as “Confidential” except as otherwise required by system operators, applicable laws and regulations. If Eversource is requested to produce such confidential information, Eversource shall provide advance notice to Generator, if possible, to give Generator an opportunity to seek appropriate protective treatment of such information. Confidential information does not include information that is: (a) in or becomes part of the public domain; (b) known to Eversource previously; (c) independently developed by Eversource; (d) rightfully obtained by Eversource from third parties without a duty of confidentiality; or (e) required to be publicly disclosed by law, statute or regulation.

5.6 Interconnection Agreement

The Generator and Eversource shall be Parties to the Interconnection Agreement. Eversource shall provide an Interconnection Agreement to the Generator in accordance with these Guidelines. After Eversource provides an Interconnection Agreement to the Generator for execution, the Generator shall have thirty (30) Business Days or another mutually agreeable timeframe to sign and return the Interconnection Agreement and associated deposit. After the Interconnection Agreement is fully executed, the Interconnection of the Generating Facility shall proceed under the provisions of the Interconnection Agreement.
5.7 **Performance Assurance**

Performance Assurance requirement will be documented in the Interconnection Agreement.

5.8 **Coordination with Affected Systems**

If Eversource determines that any Interconnection Request may have an impact on other Affected Systems, Eversource will include representatives of such Affected Systems in all meetings and proceedings pertinent to such impact.

5.9 **Generating Facility Capacity**

The Generating Facility Capacity, for studies and analyses, shall be determined as follows:

5.9.1 If the Interconnection Request is for an increase in capacity for an existing Generating Facility, the Interconnection Request shall be evaluated using the new total capacity of the Generating Facility.

5.9.2 If the Interconnection Request is for a Generating Facility that includes multiple energy production devices at a site for which the Generator seeks a single Point of Interconnection, the Interconnection Request shall be evaluated using the aggregate capacity of such multiple devices, consistent with Section 5.10.

5.9.3 The Interconnection Request shall be evaluated using the maximum AC rated capacity of the Generating Facility.

5.10 **Normal Course of Business**

Eversource will attempt to accommodate the interests of the generation developers when designing interconnection facilities. However, the following general policies represent Eversource’s normal course of business with respect to interconnections. Requests to interconnect that vary from or conflict with these policies may be subject to further scrutiny:

5.10.1 Eversource will not deviate from its normal, generally applicable, design, operating, and construction standards to accommodate a generating facility (including pole height, conductor size, etc.).

5.10.2 Regarding facility ownership, Eversource will consider all relevant, state-specific statutes or regulations when designing interconnections and/or express feeders. To the extent it is consistent with state law, regulation, etc.: i) Eversource will own and operate any interconnection equipment that is not within the property boundary of the DER site; and ii) Eversource will own and operate all distribution equipment on a ROW and/or on a public way.

5.10.3 To provide for the efficient operation, maintenance and restoration of the distribution system, to the greatest extent possible, Eversource will design and construct generator interconnections using a
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single point of interconnection, i.e. a single fault interrupting device, a single disconnect switch, a single metering set, a single GSU, etc.

5.10.4 When designing DER interconnections, Eversource will attempt to locate the Point of Interconnection and/or Point of Change of Ownership as close as possible to the mainline feeder. Eversource will limit its ownership of equipment on the DER site.

5.10.5 For generation equipment in close proximity, Eversource will not accommodate interconnection designs that are inconsistent with or seek to obfuscate or circumvent laws and/or regulations intended to differentiate program participation based on facility size (i.e. nameplate capacity). See 5.10.6 for further clarification.

5.10.6 To be considered separate projects, each of the following conditions must be satisfied:

- Each project must be located on a unique parcel of land.
- The property boundaries of each parcel of land must not have been altered with the intent to obfuscate or circumvent laws and/or regulations intended to differentiate program participation based on facility size (i.e. nameplate capacity). In general, projects on parcels where the boundaries have been altered within the three years immediately preceding the submittal of an Interconnection Request will be required to demonstrate that such alteration was not for the purpose of affecting the eligibility of the project for specific programs or that it was otherwise unrelated to the development of generation facilities.
- Each project must be owned by a separate legal entity, e.g. LLC.
- Each project must interconnect with the Eversource system via a separate interconnection point, including a separate meter.

Note: ISO-NE may have procedures and/or guidelines that are different than those identified above. For example, ISO-NE may require that projects on adjacent parcels be aggregated for purposes of establishing interconnection technical requirements (e.g. telemetry standards) or market participation requirements. Each project developer is responsible for understanding any and all relevant ISO-NE and/or FERC standards that apply to their proposed projects.

Exceptions to the above include, but are not necessarily limited to:

- Multiple projects on a single site that are each being constructed primarily to serve the load of existing retail customers may be considered separate projects behind separate retail meters. Note: creating building units and/or retail accounts that do not serve a legitimate, ongoing purpose cannot be used to justify an exemption.

- Segmenting a project to allow participation in different programs may be allowed, e.g., a single net metering project may be co-located with a merchant generation project.

Note regarding projection expansions: two or more project segments following a phased approach to development and construction will not eliminate the need for review under the above policies and exemptions. Projects in proximity will not be considered separate projects due solely to construction timing.
Send the completed Interconnection Request and required attachments to:

[Contact Eversource DG or visit Eversource.com for the latest form]

Public Service of New Hampshire  
Attn: Michael Motta, Senior Engineer – Distributed Generation  
P. O. Box 330  
Manchester, NH 03105

Telephone Number: 603-634-2920  
Fax: 603-634-2924

E-Mail Address: mottamd@Eversource.com

An Interconnection Request is considered complete when it provides all applicable and correct information required below.

Documentation that the applicant has control of the property on which the proposed facility shall be located must be submitted with the Interconnection Request. The documentation may include proof of ownership, a leasehold interest, a right to develop, or an option to acquire the site.

A facility one-line electrical diagram must be submitted with the Interconnection Request. The diagram must be signed and stamped by a NH licensed professional engineer.

Generating Facility Information:

Legal Name of the Generator (or, if an individual, individual's name)

Name:

_________________________________________

Contact Person:

_________________________________________

Mailing Address:

_________________________________________
ATTACHMENT I
EVERSOURCE INTERCONNECTION REQUEST

City: ____________________________ State: ____________ Zip: ____________________________

Facility Location (if different from above):
________________________________________________________

Telephone (Day): ______________________ Telephone (Evening): __________________________

Fax: ______________________ E-Mail Address: __________________________________________

Is the Interconnection Request for:
New Generating Facility?
Yes _____ No _____

Capacity addition to or Material Modification of an existing Generating Facility:
Yes _____ No _____

If capacity addition to or Material Modification of an existing facility, please describe:
__________________________________________________________________________________
______________________________________________________________________________

Commencement of participation in the wholesale markets by an existing Generating Facility:
Yes _____ No _____

A retail customer interconnecting a New Generating Facility that will produce electric energy to be consumed only on the retail customer’s site?
Yes _____ No _____

If onsite use of power, describe the mode of operation: (Please Check all that Apply)

□ Peak Shaving
□ Demand Management
□ Primary Power/Base Load
□ Combined Heat and Power or Cogeneration
□ Stand By/Emergency/Back-up

A Qualifying Facility where 100% of the output will be sold to Eversource?
Yes _____ No _____
ATTACHMENT I
EVERSOURCE INTERCONNECTION REQUEST

A Qualifying Facility intending to sell power at wholesale to an entity other than Eversource?
Yes _____ No _____

A Generator interconnecting a new Generating Facility that plans to participate in the wholesale markets?
Yes _____ No _____

An existing Generating Facility commencing participation in the wholesale markets?
Yes _____ No _____

Paralleling:
Will the Generating Facility operate in parallel with the Eversource system for any amount of time?
Yes _____ No _____
If No: Then Generator is operating as “Open” Transition.
If Yes: Will the Generating Facility operate in parallel with Eversource for longer than 100 milliseconds?
Yes _____ No _____
If No: Then Generator is operating as “Closed” Transition.
If Yes: Then Generator is operating as “Parallel Operation.”
Will the generator operation vary by season? (Please describe)
________________________________________________________________________________
______________________________________________________________________________

For installations at locations with existing electric service to which the proposed Generating Facility will
interconnect, provide:
Account # ________________________________
Meter # ________________________________
Contact Name: ________________________________
Title: ________________________________
Address: ________________________________
Telephone (Day): ________________________________ Telephone (Evening): ________________________________
Fax: ________________________________ E-Mail Address: ________________________________
Requested Point of Interconnection: ________________________________
ATTACHMENT I
EVERSOURCE INTERCONNECTION REQUEST

Generating Facility's Requested In-Service Date: ________________________________

Generating Facility Information:
Data apply only to the Generating Facility, not the Interconnection Facilities.

Energy Source:
Solar _____ Wind _____ Hydro _____ Hydro Type (e.g. Run-of-River):___________
Diesel _____ Natural Gas _____ Fuel Oil _______
Other (state type) _____________________________________________________________

Prime Mover:
Fuel Cell ______ Reciprocating Engine ______ Gas Turbine _______
Steam Turbine ______ Micro-turbine ______ PV ______
Other (state type) _____________________________________________________________

Type of Generator: Synchronous _______ Induction ________ Inverter _____________

Generator Manufacturer: _______________________________________________________

Generator Model Name & Number: ______________________________________________

Generator Version Number: ____________________________________________________

Generator Nameplate Rating: ___________ kW (Typical)

Generator Nameplate kVAR: ______________

Generating Facility or Customer-Site Load: _____________________________ kW (if none, so state)

Typical Reactive Load (if known): ___________________________________________

Maximum Physical Export Capability Requested: _________________________________ kW

Generator Nameplate Output Power Rating in kW:
(Summer) _______________ (Winter) _______________

Generator Nameplate Output Power Rating in kVA:
(Summer) _______________ (Winter) _______________

Individual Generator Power Factor:
Rated Power Factor: Leading _______________ Lagging _______________

Wind Farm Interconnection:
ATTACHMENT I
EVERSOURCE INTERCONNECTION REQUEST

Total Number of Generators in wind farm to be interconnected pursuant to this Interconnection Request:
Quantity: __________  Elevation: _________  Single Phase ________  Three Phase _______

Generating Facility Characteristic Data (for inverter-based machines):
Inverter Manufacturer: ___________________________________________________________
Model Name & Number: _____________________________________________________________
Is the Inverter UL 1741 listed?  Yes ______  No _______
Is the Inverter IEEE 1547 listed?  Yes ______  No _______
Is the Inverter IEEE 1547.1 listed?  Yes ______  No _______
Max design fault contribution current: __________  Instantaneous __________  or RMS? __________
Harmonics Characteristics: __________________________________________________________
Start-up requirements: ______________________________________________________________
Available fault current: _____________________________________________________________

Generating Facility Characteristic Data (for rotating machines):
Speed: _______________  RPM
Neutral Grounding Resistor (If Applicable): _______________

Synchronous Generators:
Direct Axis Synchronous Reactance, Xd: _______________  Per Unit
Direct Axis Transient Reactance, Xd’: _______________  Per Unit
Direct Axis Sub transient Reactance, Xd”': _______________  Per Unit
Negative Sequence Reactance, X2: _______________  Per Unit
Zero Sequence Reactance, X0: _______________  Per Unit
KVA Base: __________________________
Field Volts: ___________________________
Field Amperes: _______________________

Induction Generators:
Motoring Power (kW): _______________
I^2t or K (Heating Time Constant): _______________
Rotor Resistance, Rr: _______________ Per Unit
Stator Resistance, Rs: _______________ Per Unit
Stator Reactance, Xs: _______________ Per Unit
Rotor Reactance, Xr: _______________ Per Unit
Magnetizing Reactance, Xm: _______________ Per Unit
Short Circuit Reactance, Xd": _______________ Per Unit
Exciting Current: _______________ Amps
Temperature Rise: _______________
Frame Size: _______________
Design Letter: _______________
Reactive Power Required In Vars (No Load): _______________
Reactive Power Required In Vars (Full Load): _______________
Total Rotating Inertia, H: _______________ Per Unit on kVA Base

**Transformer Data (If Applicable, for Generating Facility-Owned Transformer):**
Transformer Size: _______________ kVA
Is the transformer: _______________ single phase _______________ three phase?
Transformer Impedance: _______________% on _______________ kVA Base
Transformer Positive-Sequence Short Circuit Impedances (pu):
Zps= _______________, Zpt= _______________, Zst= _______________
Transformer Zero-Sequence Impedances (pu):
Zpm0= _______________, Zsm0= _______________, Zmg0= _______________
Transformer Neutral Grounding Reactor/Resistor Impedance (Ohms):
Transformer BIL Rating _______________ kV
If Three Phase:
Transformer Primary: _____ Volts _____ Delta _____Wye _____ Wye Grounded
Transformer Secondary: _____ Volts _____ Delta _____Wye _____ Wye Grounded
Transformer Tertiary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

**Transformer Fuse Data (If Applicable, for Generating Facility-Owned Fuse):**
(Attach copy of fuse manufacturer's Minimum Melt and Total Clearing Time-Current Curves)
Manufacturer: _______________ Type: _______________
Size: _______________ Speed: _______________

**Interconnecting Circuit Breaker (if applicable):**
Manufacturer: ____________________________________________________________________
Type: ___________________________________________________________________________
Load Rating (Amps): _______________ Interrupting Rating (Amps): _______________
Trip Speed (Cycles): _______________

**Current Transformer Data (If Applicable):**
(Enclose Copy of Manufacturer's Excitation and Ratio Correction Curves)
Manufacturer: ____________________________________________________________________
Type: _______________ Accuracy Class: ________ Proposed Ratio Connection: _______________

Manufacturer: ____________________________________________________________________
Type: _______________ Accuracy Class: ________ Proposed Ratio Connection: _______________

**Potential Transformer Data (If Applicable):**
Manufacturer: ____________________________________________________________________
Type: _______________ Accuracy Class: ________ Proposed Ratio Connection: _______________

Manufacturer: ____________________________________________________________________
Type: _______________ Accuracy Class: ________ Proposed Ratio Connection: _______________

**General Information:**
Is evidence of site control enclosed?
Yes ____  No ____
ATTACHMENT I
EVERSOURCE INTERCONNECTION REQUEST

Are site electrical One-Line Diagram(s) showing the configuration of all Generating Facility equipment enclosed?

Yes _____ No ____

Enclose copy of any site documentation that indicates the precise physical location of the proposed Generating Facility (e.g., USGS topographic map or other diagram or documentation).

Enclose copy of any site documentation that describes and details the operation of the protection and control schemes.

Applicant Signature

I hereby certify that, to the best of my knowledge, all the information provided in this Interconnection Request is true and correct.

For Generator: _____________________________ Date: ________________
ATTACHMENT II
SYSTEM IMPACT STUDY AGREEMENT

System Impact Study Agreement

This System Impact Study Agreement (this “Agreement”), dated as of _______________ (the “Effective Date”) is entered into by and between Public Service of New Hampshire, a New Hampshire corporation with a principal place of business at 780 North Commercial St, Manchester, NH, 03101 (“Eversource”), and ________________________________, a ________________________ with a principal place of business at __________________________________________, (“Generator”). (Eversource and Generator are collectively referred to as the “Parties” and individually as a “Party”).

RECITALS

WHEREAS, Generator is proposing to develop a Generating Facility or increase the generating capacity of an existing Generating Facility consistent with the Interconnection Request completed by Generator on_________________________;

WHEREAS, Generator desires to interconnect the Generating Facility with the Distribution System;

WHEREAS, Generator has requested Eversource to perform or cause to be performed one or more System Impact Study(ies) to assess the impact of the proposed Interconnection of the Generating Facility.

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agree as follows:

1.0 Capitalized terms used herein but not defined herein shall have the meanings ascribed to such terms in Eversource’s Guidelines for Generator Interconnection (the “Guidelines”).

2.0 Eversource shall conduct or cause to be conducted a Distribution System Impact Study in accordance with the Guidelines. If a Transmission System Impact Study is required, Eversource shall coordinate the study which shall be in accordance with ISO-NE Schedule 22 or 23, as applicable. Either or both of these studies may be referred to as the “Study”.

3.0 The Study shall be based upon the technical information provided by Generator in the Interconnection Request, and the assumptions set forth in Exhibit A to this Agreement (the “Assumptions”). At the reasonable request of Eversource, the Generator shall promptly provide additional technical information to Eversource.
4.0 The Study shall incorporate any combination of the following: (a) short circuit analyses; (b) stability analyses; (c) power flow analyses; (d) distribution load flow studies; (e) analyses of equipment interrupting ratings; (f) voltage drop and flicker studies; (g) protection coordination studies; (h) protection and set point coordination studies; and (i) grounding reviews.

5.0 Any Affected System may participate in the Study at its own cost.

6.0 In connection with the Study, Eversource shall consider the impact of the proposed Interconnection of the Generating Facility in light of other generating facilities that, on the date the Study is commenced:

   6.1 are currently interconnected with the Distribution or Transmission System or an Affected System;

   6.2 are expected to be interconnected with the Distribution or Transmission System or an Affected System; and

   6.3 have an earlier queue position (as assigned either by ISO-NE pursuant to Schedule 22 or 23, or by Eversource pursuant to Section 3.6 of the Guidelines) than the Generating Facility.

7.0 In conjunction with the execution of this Agreement, Eversource shall provide to the Generator a written good faith estimate of the cost of the Study (the “Cost Estimate”). Prior to commencement of the Study, the Generator shall pay 100% of the Cost Estimate to Eversource (the “Deposit”). The Cost Estimate shall be provided in Exhibit A to this Agreement.

8.0 Following receipt of the Deposit, Eversource shall open a work order (the “Work Order”) to track Eversource expenses related to the Study.

9.0 Following the conclusion of the Study, Eversource shall prepare or cause to be prepared a Study report (the “Report”). The Report, unless otherwise noted in Exhibit A to this Agreement, shall (a) state the assumptions upon which the Study was based, (b) set forth the results of the various analyses and reviews, (c) provide the requirement or potential impediments to providing the requested Interconnection service, (d) provide an initial estimate of the cost necessary to correct any problems, if any, identified in the Report; and (e) provide a list of facilities that are required to implement the Interconnection of the Generating Facility, along with and a non-binding good faith estimate of cost to construct such facilities.

10.0 Any Affected System that may be adversely impacted by the proposed Interconnection shall be afforded an opportunity to review and comment on the Report.
11.0 Eversource shall use commercially reasonable efforts to provide the Report to the Generator in accordance with the estimated completion date noted in Exhibit A to this Agreement.

12.0 At any time prior to completion of the Study, Eversource may calculate the expenses that have accrued on the Work Order and, to the extent that the accrued expenses exceed the Deposit, Eversource may provide an invoice to the Generator. The Generator shall pay the invoice to Eversource within thirty (30) Calendar Days of the invoice date (without interest).

13.0 Within thirty (30) days of the completion of the Study, Eversource shall calculate the actual costs of the Study (the “Actual Cost”), and Eversource shall provide an invoice to the Generator.

14.0 In the event the Actual Cost exceeds the Deposit, the Generator shall pay the difference to Eversource within thirty (30) Calendar Days of the invoice date (without interest). In the event the Deposit exceeds the Actual Cost, Eversource shall pay the excess to the Generator within thirty (30) Calendar Days of the invoice date (without interest).

15.0 Miscellaneous.

15.1 **Accuracy of Information.** The Generator represents and warrants that, to the best of its knowledge, the information it provides to Eversource in connection with this Agreement and the Study shall be accurate and complete as of the date such information is provided. The Generator shall promptly provide Eversource with any additional information needed to update information previously provided.

15.2 **Disclaimer of Warranty.** In performing the Study, Eversource may rely on information provided by the Generator and third parties, and may not have control over the accuracy of such information. ACCORDINGLY, EVERSOURCE HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Generator acknowledges that it has not relied on any representations or warranties not specifically set forth herein and that no such representations or warranties have formed the basis of its bargain hereunder.
15.3 Force Majeure, Liability and Indemnification.

15.3.1 Force Majeure. If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, such Party will promptly notify the other Party in writing, and will keep the other Party informed on a continuing basis of the scope and duration of the Force Majeure Event. The affected Party shall specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the affected Party is taking to mitigate the effects of the event on its performance. The affected Party may suspend or modify its performance of obligations under this Agreement, other than the obligation to make payments then due or becoming due under this Agreement, but only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of commercially reasonable efforts. The affected Party shall use commercially reasonable efforts to resume its performance as soon as possible. Without limiting this section, the Generator shall immediately notify Eversource verbally if the failure to fulfill the Generator's obligations under this Agreement may impact the safety or reliability of Eversource EPS. For purposes of this Agreement, “Force Majeure Event” means any event or circumstance that (a) is beyond the reasonable control of the affected Party and (b) the affected Party is unable to prevent or provide against by exercising commercially reasonable efforts. Force Majeure Events include the following events or circumstances, but only to the extent they satisfy the foregoing requirements: (i) acts of war or terrorism, public disorder, insurrection, or rebellion; (ii) floods, hurricanes, earthquakes, lighting, storms, and other natural calamities; (iii) explosions or fire; (iv) strikes, work stoppages, or labor disputes; (v) embargoes; and (vi) sabotage. In no event shall the lack of funds or the inability to obtain funds constitute a Force Majeure Event.

15.3.2 Liability. Except with respect to a Party's fraud or willful misconduct, and except with respect to damages sought by a third party in connection with a third party claim: (a) neither Party shall be liable to the other Party, for any damages other than direct damages; and (b) each Party agrees that it is not entitled to recover and agrees to waive any claim with respect to, and will not seek, consequential, punitive or any other special damages as to any matter under, relating to, arising from or connected to this Agreement. Notwithstanding the foregoing, nothing in this Section 13.3.2 shall be deemed to limit Generator's obligations under Section 13.3.3.

15.3.3 Indemnification. The Generator shall indemnify, defend and hold harmless Eversource and its trustees, directors, officers, employees
ATTACHMENT II
SYSTEM IMPACT STUDY AGREEMENT

and agents (including affiliates, contractors and their employees) from
and against any liability, damage, loss, claim, demand, complaint, suit,
proceeding, action, audit, investigation, obligation, cost, judgment,
adjudication, arbitration decision, penalty (including fees and fines), or
expense (including court costs and attorneys' fees) relating to, arising
from or connected to this Agreement.

15.4 Term and Termination. This Agreement shall be effective from the Effective
Date until the earlier of (a) one year from the Effective Date and (b) the
withdrawal of the Generator's Interconnection Request, unless extended in
writing by the Parties. Notwithstanding the foregoing, Eversource may
terminate this Agreement fifteen (15) days after providing written notice to the
Generator that it has breached any of its obligations hereunder, if such breach
has not been cured within such fifteen (15) day period.

15.5 Governing Law. This Agreement shall be governed by and construed in
accordance with the laws of the State of New Hampshire applicable to
contracts made and performed in such State and without regard to conflicts of
law doctrines.

15.6 Severability. If any provision of this Agreement is held to be unenforceable
for any reason, such provision shall be adjusted rather than voided, if possible,
to achieve the intent of the Parties. If no such adjustment is possible, such
provision shall be fully severable and severed, and all other provisions of this
Agreement will be deemed valid and enforceable to the extent possible.

15.7 Counterparts. This Agreement may be executed in counterparts, each of
which shall be deemed an original, and all counterparts so executed shall
constitute one agreement binding on all of the Parties hereto, notwithstanding
that all of the Parties are not signatories to the same counterpart. Facsimile
counterparts may be delivered by any Party, with the intention that they shall
have the same effect as an original counterpart hereof.

15.8 Amendment. No amendment, modification or waiver of any term hereof shall
be effective unless set forth in writing and signed by the Parties hereto.

15.9 Survival. The termination of this Agreement shall not relieve either Party of
its liabilities and obligations, owed or continuing at the time of termination.

15.10 Independent Contractor. Eversource shall at all times be deemed to be an
independent contractor of the Generator, and none of Eversource’s
employees, contractors or the employees of its contractors shall be deemed to
be employees of the Generator as a result of this Agreement.
15.11 **No Implied Waivers.** No failure on the part of any Party to exercise or delay in exercising any right hereunder shall be deemed a waiver thereof, nor shall any single or partial exercise of any right hereunder preclude any further or other exercise of such or any other right.

15.12 **Successors and Assigns.** Neither Party may assign this Agreement, by operation of law or otherwise, without the prior written consent of the other Party, which consent shall not be unreasonably withheld. In the event of an assignment authorized hereunder, each and every term and condition hereof shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

15.13 **Due Authorization.** Each Party represents and warrants to the other that (a) it has full power and authority to enter into this Agreement and to perform its obligations hereunder, (b) execution of this Agreement will not violate any other agreement with a third party, and (c) the individual signing this Agreement on its behalf has been properly authorized and empowered to enter into this Agreement.

[Signature page follows.]
ATTACHMENT II
SYSTEM IMPACT STUDY AGREEMENT

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

[Insert name of the Generator]

___________________________________
Signed______________________________

Name (Printed):
___________________________________

Title_______________________________

[Insert name of Eversource]

___________________________________
Signed______________________________

Name (Printed):
___________________________________

Title_______________________________
The Study shall be based upon the information set forth in the Interconnection Agreement and the following assumptions:

1) Designation of Point of Interconnection and configuration to be studied:

2) Other assumptions (listed below) are to be provided by the Generator and Eversource.

3) Scope of Work:

4) Cost Estimate:

5) Estimated Completion Date:
Facility Study Agreement

This Facility Study Agreement (this “Agreement”), dated as of _______________ (the “Effective Date”) is entered into by and between Public Service of New Hampshire, a New Hampshire corporation with a principal place of business at 780 North Commercial St, Manchester, NH, 03101 (“Eversource”), and ___________________________________, a ________________________________ with a principal place of business at _________________________________, (“Generator”). (Eversource and Generator are collectively referred to as the “Parties” and individually as a “Party”).

RECITALS

WHEREAS, Generator is proposing to develop a Generating Facility or increase the generating capacity of an existing Generating Facility consistent with the Interconnection Request completed by Generator on________________________;

WHEREAS, Generator desires to interconnect the Generating Facility with the Distribution System;

WHEREAS, Eversource has completed a Distribution/Transmission System Impact Study with respect to the proposed Interconnection of the Generating Facility and provided the results of such study to Generator on _____________ (the “System Impact Study”); and  [If both System Impact Studies are conducted, then this will be appropriately modified and the defined term “System Impact Studies” will be used.]

WHEREAS, Generator has requested Eversource to perform a Facility Study to specify and estimate the cost of the equipment, engineering, procurement and construction work required pursuant to the conclusions of the System Impact Study.

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agreed as follows:

1.0 Capitalized terms used herein but not defined herein shall have the meanings ascribed to such terms in Eversource’s Guidelines for Generator Interconnection (the “Guidelines”).

2.0 Eversource shall conduct or cause to be conducted a Facility Study in accordance with the Guidelines (the “Facility Study”).

3.0 The scope of the Facility Study shall be based on the conclusions of the System Impact Study and the data provided by Generator in Exhibit A to this Agreement (the “Data”). At the reasonable request of Eversource, the Generator shall promptly provide additional data to Eversource.
ATTACHMENT III
FACILITY STUDY AGREEMENT

4.0 In conjunction with the execution of this Agreement, Eversource shall provide to the Generator a written good faith estimate of the cost of the Facility Study (the “Cost Estimate”). Prior to commencement of the Facility Study, the Generator shall pay 100% of the Cost Estimate to Eversource (the “Deposit”). The Cost Estimate shall be provided in Exhibit A to this Agreement.

5.0 Following receipt of the Deposit, Eversource shall open a work order (the “Work Order”) to track Eversource expenses related to the Facility Study.

6.0 Following the conclusion of the Facility Study, Eversource shall prepare a report setting forth the results of the Facility Study (the “Report”). The Report may include, but is not limited to: (a) specification and estimation of the equipment, engineering, procurement and construction work (including overheads) needed to implement the conclusions of the System Impact Study; (b) identification of the electrical switching configuration of the equipment (including, without limitation, transformer, switchgear, meters, and other station equipment); and (c) estimation of the nature and estimated cost of Eversource’s Interconnection Facilities and upgrades necessary to accomplish the Interconnection (including, without limitation, an estimation of the time required to complete the construction and installation of such facilities).

7.0 Eversource shall use commercially reasonable efforts to provide the Report to the Generator in accordance with the estimated completion date noted in Exhibit A to this Agreement.

8.0 At any time prior to completion of the Study, Eversource may calculate the expenses that have accrued on the Work Order and, to the extent that the accrued expenses exceed the Deposit, Eversource may provide an invoice to the Generator. The Generator shall pay the invoice to Eversource within thirty (30) Calendar Days of the invoice date (without interest).

9.0 Within thirty (30) days of the completion of the Facility Study, Eversource shall calculate the actual costs of the Facility Study (the “Actual Cost”), and Eversource shall provide an invoice to the Generator.

10.0 In the event the Actual Cost exceeds the Deposit, the Generator shall pay the difference to Eversource within thirty (30) Calendar Days of the invoice date (without interest). In the event the Deposit exceeds the Actual Cost, Eversource shall pay the excess to the Generator within thirty (30) Calendar Days of the invoice date (without interest).

11.0 Miscellaneous.

11.1 Accuracy of Information. The Generator represents and warrants that, to the best of its knowledge, the information it provides to Eversource in connection
with this Agreement and the Facility Study (including without limitation the Data and all information provided on Generator's Interconnection Request) shall be accurate and complete as of the date such information is provided. The Generator shall promptly provide Eversource with any additional information needed to update information previously provided.

11.2 **Disclaimer of Warranty.** In performing the Facility Study, Eversource may rely on information provided by the Generator and third parties, and may not have control over the accuracy of such information. ACCORDINGLY, EVERSOURCE HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Generator acknowledges that it has not relied on any representations or warranties not specifically set forth herein and that no such representations or warranties have formed the basis of its bargain hereunder.

11.3 **Force Majeure, Liability and Indemnification.**

10.3.1 **Force Majeure.** If a Force Majeure Event prevents a Party from fulfilling any obligations under this Agreement, such Party will promptly notify the other Party in writing, and will keep the other Party informed on a continuing basis of the scope and duration of the Force Majeure Event. The affected Party shall specify in reasonable detail the circumstances of the Force Majeure Event, its expected duration, and the steps that the affected Party is taking to mitigate the effects of the event on its performance. The affected Party may suspend or modify its performance of obligations under this Agreement, other than the obligation to make payments then due or becoming due under this Agreement, but only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of commercially reasonable efforts. The affected Party shall use commercially reasonable efforts to resume its performance as soon as possible. Without limiting this section, the Generator shall immediately notify Eversource verbally if the failure to fulfill the Generator's obligations under this Agreement may impact the safety or reliability of Eversource EPS. For purposes of this Agreement, “**Force Majeure Event**” means any event or circumstance that (a) is beyond the reasonable control of the affected Party and (b) the affected Party is unable to prevent or provide against by exercising commercially reasonable efforts. Force Majeure Events include the following events...
or circumstances, but only to the extent they satisfy the foregoing requirements: (i) acts of war or terrorism, public disorder, insurrection, or rebellion; (ii) floods, hurricanes, earthquakes, lighting, storms, and other natural calamities; (iii) explosions or fire; (iv) strikes, work stoppages, or labor disputes; (v) embargoes; and (vi) sabotage. In no event shall the lack of funds or the inability to obtain funds constitute a Force Majeure Event.

11.3.2 Liability. Except with respect to a Party's fraud or willful misconduct, and except with respect to damages sought by a third party in connection with a third party claim: (a) neither Party shall be liable to the other Party, for any damages other than direct damages; and (b) each Party agrees that it is not entitled to recover and agrees to waive any claim with respect to, and will not seek, consequential, punitive or any other special damages as to any matter under, relating to, arising from or connected to this Agreement. Notwithstanding the foregoing, nothing in this Section 10.3.2 shall be deemed to limit Generator's obligations under Section 10.3.3.

11.3.3 Indemnification. The Generator shall indemnify, defend and hold harmless Eversource and its trustees, directors, officers, employees and agents (including affiliates, contractors and their employees) from and against any liability, damage, loss, claim, demand, complaint, suit, proceeding, action, audit, investigation, obligation, cost, judgment, adjudication, arbitration decision, penalty (including fees and fines), or expense (including court costs and attorneys' fees) relating to, arising from or connected to this Agreement.

11.4 Term and Termination. This Agreement shall be effective from the Effective Date until the earlier of (a) one year from the Effective Date and (b) the withdrawal of the Generator's Interconnection Request, unless extended in writing by the Parties. Notwithstanding the foregoing, Eversource may terminate this Agreement fifteen (15) days after providing written notice to the Generator that it has breached any of its obligations hereunder, if such breach has not been cured within such fifteen (15) day period.

11.5 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of New Hampshire applicable to contracts made and performed in such State and without regard to conflicts of law doctrines.

11.6 Severability. If any provision of this Agreement is held to be unenforceable for any reason, such provision shall be adjusted rather than voided, if possible, to achieve the intent of the Parties. If no such adjustment is possible, such
provision shall be fully severable and severed, and all other provisions of this Agreement will be deemed valid and enforceable to the extent possible.

11.7 Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original, and all counterparts so executed shall constitute one agreement binding on all of the Parties hereto, notwithstanding that all of the Parties are not signatories to the same counterpart. Facsimile counterparts may be delivered by any Party, with the intention that they shall have the same effect as an original counterpart hereof.

11.8 Amendment. No amendment, modification or waiver of any term hereof shall be effective unless set forth in writing and signed by the Parties hereto.

11.9 Survival. The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of termination.

11.10 Independent Contractor. EDC shall at all times be deemed to be an independent contractor of the Generator, and none of Eversource’s employees, contractors or the employees of its contractors shall be deemed to be employees of the Generator as a result of this Agreement.

11.11 No Implied Waivers. No failure on the part of any Party to exercise or delay in exercising any right hereunder shall be deemed a waiver thereof, nor shall any single or partial exercise of any right hereunder preclude any further or other exercise of such or any other right.

11.12 Successors and Assigns. Neither Party may assign this Agreement, by operation of law or otherwise, without the prior written consent of the other Party, which consent shall not be unreasonably withheld. In the event of an assignment authorized hereunder, each and every term and condition hereof shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

11.13 Due Authorization. Each Party represents and warrants to the other that (a) it has full power and authority to enter into this Agreement and to perform its obligations hereunder, (b) execution of this Agreement will not violate any other agreement with a third party, and (c) the individual signing this Agreement on its behalf has been properly authorized and empowered to enter into this Agreement. [Signature page follows.]
ATTACHMENT III
FACILITY STUDY AGREEMENT

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

[Insert name of the Generator]

___________________________________
Signed______________________________

Name (Printed):

Title_______________________________

[Insert name of Eversource]

___________________________________
Signed______________________________

Name (Printed):

Title_______________________________
EXHIBIT A

The Facility Study shall be based upon the conclusions of the System Impact Study(ies) and the following assumptions:

1) Designation of Point of Interconnection and configuration to be studied:

2) Other assumptions (listed below) are to be provided by the Generator and Eversource.

3) Scope of Work:

4) Cost Estimate:

5) Estimated Completion Date:

Affected Party or Parties: The entity that owns, operates or controls an Affected System, or any other entity that otherwise may be a necessary party to the Interconnection process.

Affected System: Any electric system that is within Eversource service territory, including, but not limited to generator owned electric facilities, or any other electric system that is not within Eversource service territory that may be affected by the proposed Interconnection.

Applicable Laws and Regulations: All duly promulgated applicable federal, state and local laws, regulations, rules, ordinances, codes, decrees, judgments, directives, or judicial or administrative orders, permits and other duly authorized actions of any Governmental Authority.

Applicable Reliability Standards: The requirements and guidelines of NERC, NPCC and the New England Control Area, ISO, ISO-NE, including publicly available local reliability requirements of Interconnecting EDC or other Affected Systems, and any successor documents.

Application Review: A review by Eversource of the completed Interconnection Request Form to determine if further study is required.

Business Day: Monday through Friday, excluding Federal Holidays.

Calendar Day: Shall mean any day including Saturday, Sunday, Federal and State Holidays.

Commercial Operation Date: The date on which the Generator commences commercial operation of the unit after the unit has been commissioned and likely to be associated with a specific date that is identified in a purchase power agreement or the date that the power transaction starts.

Communications Costs: Any costs associated with installing, testing, and maintaining the communications infrastructure necessary to provide protection and/or monitoring for the generating facility.

Contract Path: A specific contiguous electrical path from a point of receipt to a point of delivery for which EPS rights have been contracted.

Distribution System: Eversource’s facilities and equipment used to transmit electricity to ultimate usage points such as homes and industries. The voltage levels at which Distribution Systems generally operate at 34.5 kV and less.


EDC: An electric distribution company, e.g. Eversource.
EPS: The electric power system, consisting of all electrical wires, equipment, and other facilities owned or provided by Eversource to provide distribution service to Eversource's customers.

Facility Study: The study conducted by Eversource to determine the scope and costs of required modifications and upgrades to the EPS and/or a Generating Facility necessary for an Interconnection of such Generating Facility.

Fault: An equipment failure, short circuit, or other condition resulting from abnormally high amounts of current from the power source.


Generator: The owner and/or operator of a Generating Facility.

Generating Facility: The device used for the production of electricity identified in the Interconnection Request, but shall not include the Generating Facility's Interconnection Facilities.

Guidelines: The “Guidelines for Generator Interconnection,” prepared by Eversource to describe the protocols and procedures for interconnecting to the EPS.

IEEE: Institute of Electrical and Electronics Engineers.

Independent System Operator (ISO): An entity supervising the collective transmission facilities of a power region; the ISO is charged with nondiscriminatory coordination of market transactions, system-wide transmission planning, and bulk power network reliability.

Induction Generator: An induction generator is a rotating AC machine that operates above synchronous speed over its range of power output. The faster it is driven above synchronous speed by a prime mover, the more electrical power is generated. Excitation is provided by the utility in the form of reactive power. The induction generator normally loses its ability to produce voltage and power output when it is isolated from the utility since it loses its source of excitation.

In-Service Date: The date on which the Generating Facility and system modification (if applicable) are complete and ready for service, even if the Generating Facility is not placed in service on such date.

Intentional Islanding: Intentional Islanding occurs when the Generating Facility has been isolated from the EPS by planned operation of disconnecting means consistent with the Technical Requirements and the Generating Facility as a result is serving segregated load(s) on the Generating Facility's side of the Point of Interconnection.

Interconnection: The physical connection of a Generating Facility to the EPS so that parallel operation can occur.
**Interconnection Agreement**: A written agreement between a Generator and Eversource setting forth the terms, conditions, obligations and rights with respect to an Interconnection. An Interconnection Agreement is required to be signed by the Generator and Eversource before parallel operation of the Generating Facility may commence. Note: the form of Interconnection Agreement is attached to these Guidelines as Exhibit B.

**Interconnection Facilities**: Interconnection Facilities include all facilities and equipment between the Generating Facility and the Point of Interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the Generating Facility to the Distribution System. Eversource and the Generator may each own Interconnection Facilities with respect to the Generating Facility.

**Interconnection Request**: A Generator’s request, in the form of Attachment I, to interconnect a new Generating Facility to the EPS or increase the capacity or operating characteristics an existing Generating Facility currently interconnected to the EPS.

**Interconnection Service**: The service provided by Eversource associated with interconnecting the Generating Facility to the EPS and enabling the delivery of electric energy and capacity from the Generating Facility at the Point of Interconnection, pursuant to the terms of the Interconnection Agreement.

**Inverter**: A machine, device or system that changes direct-current power to alternating-current power.

**Islanding**: A situation where electrical power remains in a portion of an EPS when the EPS has ceased providing power for whatever reason (emergency conditions, maintenance, etc.) to that portion of the EPS.

**Isolation Device**: A device used for isolating a circuit or equipment from a source of power. Also referred to as a “Disconnect Switch”.

**ISO-NE**: The ISO, established in accordance with the NEPOOL Agreement and applicable FERC approvals, that is responsible for managing the bulk power generation and transmission systems in New England, or any successor organization approved by FERC.

**Material Modification**: (i) Any modification to an Interconnection Request submitted by a Generator that is reasonably expected to require significant additional study of the such Interconnection Request, substantially change the Interconnection design and/or have a material impact on the cost or timing of any studies or upgrades associated with any other Interconnection Request with a later queue priority date; (ii) a change to the design or operating characteristics of an existing Generating Facility that is interconnected with the EPS which may have an adverse effect on the reliability of the EPS; or (iii) a significant delay to the Commercial Operation Date or In-Service Date, the reason for which is unrelated to construction schedules or permitting.

**Metering Point**: The point at which the billing meter is connected (for meters that do not use instrument transformers). For meters that use instrument transformers, the point at which the instrument transformers are connected.
ATTACHMENT IV
GLOSSARY

NEC: National Electric Code


Net Metering: The process, in accordance with the applicable Eversource tariff, whereby the metered electrical energy production by a Generating Facility is subtracted from the metered electrical energy sales to the Generator at such Generating Facility.

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

NRTL: An accredited Nationally Recognized Testing Laboratory, which has been approved to perform the certification testing required for Generating Facilities.

Operating Requirements: Any operating and technical requirements that may be required by Eversource, including those set forth in the Interconnection Agreement (Exhibit B), or the Applicable Reliability Standards.

Party: Each of Eversource and the Generator, collectively the “Parties.”

Point of Delivery: See Contract Path

Point of Interconnection: The point at which the Generating Facility’s local electric power system connects to the EPS, such as the electric power revenue meter or premises service transformer.

Point of Receipt: See Contract Path

Scoping Meeting: A scoping meeting is to discuss the Interconnection Request, review any existing studies relevant to the application, and discuss whether Eversource should perform a System Impact Study, a Facility Study, or proceed to an Interconnection Agreement.

Switchgear: Components for switching, protecting, monitoring and controlling the EPS.

Synchronous Generator: A synchronous alternating-current machine which transforms mechanical power into electric power. (A synchronous machine is one in which the average speed of normal operation is exactly proportional to the frequency of the system to which it is connected.)

System Impact Studies: The Transmission System Impact Study and the Distribution System Impact Study. These are engineering studies that evaluate the impact of the proposed Interconnection on the safety and reliability of the EPS. The study shall identify
ATTACHMENT IV
GLOSSARY

and detail the system impacts that would result if the Generating Facility were interconnected without project modifications or system modifications, focusing on adverse system impacts, or to study potential impacts, including but not limited to those identified in the Scoping Meeting. The Distribution System Impact Study shall incorporate any combination of the following: (a) short circuit analyses; (b) stability analyses; (c) power flow analyses; (d) distribution load flow studies; (e) analyses of equipment interrupting ratings; (f) voltage drop and flicker studies; (g) protection coordination studies; (h) protection and set point coordination studies; and (i) grounding reviews.

Tariffs: Rates and charges of Eversource for service as filed and approved by the NHPUC.

Technical Requirements: Technical requirements for the Interconnection, attached hereto as Exhibit A.

Telemetry: The transmission of Generating Facility data using telecommunications techniques.

Terms and Conditions: Eversource's terms and conditions for providing electric delivery service as approved by the NHPUC.

Transfer Switch: A switch designed so that it will disconnect the load from one power source and reconnect it to another source.

Transmission System: Eversource's facilities and equipment used to transmit electricity generally at voltage levels greater than 69 kV.

Transmission System Impact Study: An engineering study that evaluates the impact of the proposed Interconnection on the safety and reliability of the Transmission System.