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August 9, 2017

Mark D. Marini, Secretary
Department of Public Utilities
One South Station, 5th Floor
Boston, MA 02110

Re: Petition of the Cape Light Compact for approval of a Mid-Term Modification of its 2016-2018 Three-Year Energy Efficiency Plan – D.P.U. 17-84

Dear Secretary Marini:

On behalf of NSTAR Electric Company, d/b/a Eversource Energy ("Eversource"), enclosed please find Eversource's responses to the Attorney General's First Set of Information Requests.

Thank you for your attention to this matter. Please contact me should you have any questions.

Sincerely,

Matthew S. Stern, Esq.

Enclosures

cc: Jeffrey Leupold, Hearing Officer
Service List

Information Request AG-ES-1-1

Please refer to Exhibit ES-JDT-1, pp. 7-8, where it states that the Company's Standards for Interconnection of Distributed Generation ("DG") includes provisions to temporarily terminate service to a DG facility that may adversely affect the Company's distribution system. Please provide the occasions (dates and facility locations) where the Company has exercised this provision by temporarily terminating service to a facility within the past five years.

Response

Exhibit ES-JDT-1, at 7-8 references provisions in the Company's Standards for Interconnection of Distributed Generation at Section 7.0 governing situations in which the Company may disconnect service to a facility interconnected to the Company's distribution system. These situations include:

a) Emergency Conditions, where the Company has the right to immediately and temporarily disconnect a distributed generation facility a ("Facility") without prior notification in cases where, in the reasonable judgment of Company, continuance of such service to an Interconnecting Customer is imminently likely to (i) endanger persons or damage property or (ii) cause a material adverse effect on the integrity or security of, or damage to, Company electric power system ("EPS") or to the electric systems of others to which the Company EPS is directly connected;

b) Routine Maintenance, Construction and Repair, where the Company has the right to disconnect a Facility from the Company EPS when necessary for routine maintenance, construction and repairs on the Company EPS;

c) Forced Outages, where during any forced outage, the Company shall has the right to suspend interconnection service to effect immediate repairs on the Company EPS;

d) Non-Emergency Adverse Operating Effects, where the Company may

disconnect a Facility if the Facility is having an adverse operating effect on the Company EPS or other Customers that is not an emergency, and the Interconnecting Customer fails to correct such adverse operating effect after written notice has been provided and a maximum of 45 days to correct such adverse operating effect has elapsed; and

e) Modification of a Facility, where the Company is required to notify an Interconnecting Customer if there is evidence of a material modification to the Facility and shall have the right to immediately suspend interconnection service in cases where such material modification has been implemented without prior written authorization from the Company.

The Company does not formally track this information and would require an extensive manual search of individual planned and non-planned outage records, in order to respond to this question in full. However, Attachment AG-ES-1-1 is one example of such an outage. The attached incident was a high voltage complaint on the 18G4 circuit in Whately, MA (see Trouble Codes page 1 of the attachment: "NO-CUST-HV" means non-outage customer high voltage call). This high voltage condition occurred on a Sunday in April, which is typically a very light load time. In order to bring the voltage back down within acceptable limits, a 1.5MW solar facility was taken off line (see Resolution remarks, page 2 of the attachment).

NSTAR Electric Company/Western Massachusetts Electric Company
each d/b/a Eversource Energy
D.P.U. 17-84
Attachment AG-ES-1-1
Page 1 of 2

Outage Detail Tabs

Event Details | Customers Affected | Calls | Outage Map | Restoration Actions | Crew Activity | Event Actions | Related Events | Damage Assessment

Event Details

Event ID:	3134162	State:	CMP
Event Type:	NON	Status:	NON
Organization:	WMA - MA NORTHERN - HADLEY AWC - WHATELY - 18G8-WHATELY-6A		
Circuit:	18G8	Customers De-Energized:	0
System Level:	Unselected	Customers Still Out:	0
Asset:	Transformer_UG - XF_UG:ABC:9/46-2P:9143793	Number of Calls:	1
Switch Plan:			
Start Time:	04/10/2016 13:02		
ETR:		Duration:	2 hrs 3 min
Restoration:	04/10/2016 15:05		
1st Crew:	4/10/2016 1:05:26 PM	Crew:	HDL OH-Augusto 4112
Trouble Codes:	NO-CUST-HV		
Event Location:	CHRISTIAN (102) LN -- 9/46 1, WHATELY, MA 01093		
Map Code:	MA K5-3 B-8		
Comments:			
Actual Cause:	MISC-Miscellaneous		

Event Details

Event Began	04/10/2016 13:02
Event Restored	04/10/2016 15:05

Details

Fault Location	18G8-60R
Cause	MISC-Miscellaneous
Action Taken	MEAS-Msrd Volt/Curmt/EMF/etc
Follow Up	NOFU-No Follow Up Required

Temporary Repair Notes

Temporary Repairs Made?	**null: N**

Resolution Remarks

Spoke to engineering. Checked cap banks opened on Christian Ln, and Long Plain Rd. Then had to open 18G8-60R solar site to drop voltage from 293V to 278. See ME-712- Augusto/Lewis/RGC

Post-Completion Edit Log

Who	Date	Reason	Field	Previous Value
cellurg	04/10/2016 15:05	Initial completion		

Information Request AG-ES-1-2

Please provide a copy of the Company's Standards for Interconnection of Distributed Generation.

Response

Please refer to Attachment AG-ES-1-2 for the Company's Standards for Interconnection of Distributed Generation.

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

1.0 GENERAL

1.1 Applicability

This document ("Interconnection Tariff") describes the process and requirements for an Interconnecting Customer to connect a power-generating facility to the Company's Electric Power System ("Company EPS"), including discussion of technical and operating requirements, metering and billing options, and other matters, except as provided under the applicable ISO-NE tariff, and/or under the Qualifying Facility regulations in 220 CMR 8.04.

The procedure for momentary paralleling to the Company EPS with back-up generation is described within Section 4.0 Interconnection Requirements.

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 Tariff does not apply.

1.2 Definitions

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

"Affected System" shall mean any neighboring EPS not under the control of the Company (i.e., a municipal electric light company or other regulated utility).

"Affiliate" shall mean a person or entity controlling, controlled by or under common control with a Party.

"Anti-Islanding" shall mean a description of the ability of a Facility to avoid unintentional islanding through some form of active control technique.

"Interconnection Application" shall mean the notice (which will serve as the Notice of Intent to Interconnect under 220 C.M.R. §§ 8.00 et seq. when required) provided by Interconnecting Customer to the Company in the form shown in Exhibits A and C which initiates the interconnection process.

"Area EPS" shall mean the Company EPS. This term is used in the Institute of Electrical and Electronics Engineers (IEEE) Standard 1547-2003, "IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems" ("IEEE Standard 1547-2003").

"Authorization to Interconnect" shall mean an official written notification provided by the Company to the Interconnecting Customer, authorizing the

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Interconnecting Customer to activate and operate the Facility subject to the terms of the Interconnection Service Agreement.

"Business Day" shall be defined as the next working day, not including Saturday, Sunday or a legal holiday, after a request or application has been received by the Company.

"Certificate of Completion" shall mean the form required as proof that the installed Facility has been inspected by the local electrical wiring inspector or other jurisdictional authority.

"Class I Net Metering Facility" shall mean a plant or equipment that is used to produce, manufacture, or otherwise generate electricity and that is not a transmission facility and that has a design capacity of 60 kilowatts or less.

"Class II Net Metering Facility" shall mean an Agricultural Net Metering Facility, Anaerobic Digestion Net Metering Facility, Solar Net Metering Facility, or Wind Net Metering Facility with a generating capacity of more than 60 kilowatts but less than or equal to one megawatt; provided, however, that a Class II Net Metering Facility that is a Net Metering Facility of a Municipality or Other Governmental Entity may have a generating capacity of more than 60 kilowatts but less than or equal to one megawatt per unit.[1]

"Class III Net Metering Facility" shall mean an Agricultural Net Metering Facility, Anaerobic Digestion Net Metering Facility, Solar Net Metering Facility, or Wind Net Metering Facility with a generating capacity of more than one megawatt but less than or equal to two megawatts; provided, however, that a Class III Net Metering Facility that is a Net Metering Facility of a Municipality or Other Governmental Entity may have a generating capacity of more than one megawatt but less than or equal to two megawatts per unit.

"Common Study Area" shall mean a discrete portion of the Company EPS where the operation of multiple Interconnecting Customers' Facilities may have cumulatively adverse EPS impacts. The Company shall determine if applications fall within a Common Study Area. A Common Study Area may include, but is not limited to, an area that: (1) is fed from a common substation transformer, or (2) is bounded by a circuit.

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[1] Any terms used herein but not defined shall have the meaning as ascribed in the Company's Net Metering Tariff, as amended or superseded from time to time.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

"Company" shall mean NSTAR Electric Company d/b/a Eversource Energy, as applicable.

"Company EPS" shall mean the electric power system owned, controlled or operated by the Company used to provide distribution service to its Customers.

"Compliance Documentation" shall mean and include any documentation required to determine that the Interconnecting Customer is in compliance with requirements of the Tariff, including the applications, exhibits and agreements attached thereto, and such documentation includes, as applicable: final as-built one-line diagrams, photos, witness test results, local wiring inspection approval, completed Certificate of Completion, certified relay test results, printout of inverter settings, insurance certificates, P-rate agreement, Exhibit H (retail customer agreement), landowner agreement, easements for system modifications, and, if the Facility is net metering, a completed Schedule Z, a net metering cap allocation from the System of Assurance, and, for a Facility that is included in the public net metering cap, certification from the Department that the Host Customer and all off-takers qualify as a municipality or other governmental entity.

"Conditional Approval to Interconnect" shall mean an official written notification provided by the Company to the Interconnecting Customer approving of the proposed system design of a proposed Facility and authorizing the Interconnecting Customer to test but not commence commercial operation of that Facility subject to the terms of the Exhibit A, Simplified Process Interconnection Application and Service Agreement.

"Customer" shall mean any person, partnership, corporation, or any other entity whether public or private who obtains distribution service at a Customer delivery point and who is a customer of record of the Company for its own electricity consumption.

"Department" shall mean the Massachusetts Department of Public Utilities.

"Detailed Study" shall mean the final phase of engineering study, if necessary, conducted by the Company to determine substantial System Modifications to its EPS, resulting in project cost estimates and a construction schedule for such modifications that will be required to provide the requested interconnection service.

"DG" shall mean Distributed Generation.

"DR" shall mean the Facility. This term is used in IEEE Standard 1547-2003.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

"Expedited Process" shall mean, as described in Section 3.3, process steps for Listed Facilities from initial application to final written authorization, using a set of technical screens to determine impact on the Company EPS.

"Facility" shall mean a source of electricity owned and/or operated by the Interconnecting Customer that is located on the Customer's side of the PCC, and all facilities ancillary and appurtenant thereto, including interconnection equipment, which the Interconnecting Customer requests to interconnect to the Company EPS.

"FERC" shall mean Federal Energy Regulatory Commission.

"Force Majeure Event" shall mean any event that is beyond the reasonable control of the affected Company or Interconnecting Customer, and that the affected Company or Interconnecting Customer is unable to prevent or provide against by exercising commercially reasonable efforts, including the following events or circumstances, but only to the extent they satisfy the preceding requirements: acts of war or terrorism, public disorder, insurrection, or rebellion; floods, hurricanes, earthquakes, lightning, storms, and other natural calamities; explosions or fire; strikes, work stoppages, or labor disputes; embargoes; and sabotage. For the treatment of Force Majeure see Section 3.7.

"Good Utility Practice" shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region.

"Group" shall mean all proposed Facilities studied as part of a Group Study or those Facilities' applicants (as determined by the context). The order of applicants within a Group shall be determined on the basis of the date the applicants' applications were deemed complete by the Company. The application completion date for the Group shall be defined as the earliest application completion date of any active application in the Common Study Area (excluding applications that have progressed through a Preceding Study).

"Group Study" shall mean a modified Impact Study that is performed for a Group of applications whenever two or more applications are awaiting completion of a

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Preceding Study within a Common Study Area, as provided in Section 3.4.1. The Group Study shall be performed once the Preceding Study is completed, instead of each application undergoing Impact Studies sequentially.

"Impact Study" shall mean the engineering study conducted by the Company under the Standard Process to determine the scope of the required modifications to its EPS and/or the Facility to provide the requested interconnection service.

"In-Service Date" shall mean 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" shall mean the entity that owns and/or operates the Facility interconnected to the Company EPS, with legal authority to enter into agreements regarding the construction or operation of the Facility.[2]

"Interconnection Service Agreement" shall mean an agreement for interconnection service, the form of which is provided in Exhibit G, between the Interconnecting Customer and the Company. The agreement also includes terms and conditions, attachments describing the Facility, system modifications, payment terms and construction schedule (if applicable) and any amendments or supplements thereto entered into by the Interconnecting Customer and the Company.

"Interconnection Tariff" shall mean these Standards for Interconnection of Distributed Generation. The Interconnection Tariff is a regulatory document enforced by the Department.

"Islanding" shall mean 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.). Islanding may be intentional, such as when certain segregated loads in an Interconnecting Customer or Customer's premises are provided power by a Facility after being isolated from the Company EPS after a power failure. Unintentional Islanding, especially past the PCC, is to be strictly avoided.

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[2] An entity which owns the Facility interconnected to the Company EPS solely as part of a financing arrangement, which could include the acquisition of the tax credits related to the Facility, but is neither the Customer nor the operator of that Facility, shall not be considered the Interconnecting Customer hereunder.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

"ISO-New England, Inc. ("ISO-NE")" shall mean the Independent System Operator established in accordance with the NEPOOL Agreement and applicable FERC approvals, which is responsible for managing the bulk power generation and transmission systems in New England.

"Isolated" shall mean the state of operating the Facility when electrically disconnected from the Company EPS on the Interconnecting Customer's side of the PCC.

"Landowner" shall mean the owner of real property where the Facility is sited. In cases where the Landowner is not the Customer or Interconnecting Customer, a Landowner Consent Agreement will be required (see Exhibit I).

"Local EPS" shall mean the premises within which are contained the Facility. This term is used in the IEEE Standard 1547-2003.

"Listed" shall mean a Facility that has successfully passed all pertinent tests to conform with IEEE 1547.1.

"Metering Point" shall mean, for meters that do not use instrument transformers, the point at which the billing meter is connected. For meters that use instrument transformers, the point at which the instrument transformers are connected.

Nameplate, design, or generation "capacity" or "rating" shall mean the maximum continuous power output (AC) listed by the manufacturer. "NEPOOL" shall mean New England Power Pool.

"Net Metering" shall mean the process of measuring the difference between electricity delivered by the Company and electricity generated by a Class I, Class II, or Class III Net Metering Facility and fed back to the Company.

"Network Distribution System (Area or Spot)" shall mean 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 one (a spot network) or more (an area network) Interconnecting Customers.

"Non-Islanding" shall mean the ability of a Facility to avoid unintentional islanding through the operation of its interconnection equipment.

"NPCC" shall mean Northeast Power Coordinating Council.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

"On-Site Generating Facility" shall mean a class of Interconnecting Customer-owned generating Facilities with peak capacity of 60 kW or less, as defined in 220 C.M.R. § 8.00.

"Parallel" shall mean the state of operating the Facility when electrically connected to the Company EPS (sometimes known as grid-parallel).

"Parties" shall mean the Company and the Interconnecting Customer, and "Party" shall mean either the Company and/or Interconnecting Customer, as determined by context.

"Point of Common Coupling (PCC)" shall mean the point where the Interconnecting Customer's local electric power system connects to the Company EPS, such as the electric power revenue meter or Company's service transformer. The PCC shall be specified in the Interconnection Service Agreement.

"Point of Delivery" shall mean a point on the Company EPS where the Interconnecting Customer makes capacity and energy available to the Company. The Point of Delivery shall be specified in the Interconnection Service Agreement.

"Point of Receipt" shall mean a point on the Company EPS where the Company delivers capacity and energy to the Interconnecting Customer.

"Pre-Application Report" shall mean, as described in Section 3.2, a non-binding report of certain information specific to a proposed Facility interconnection location provided to the Interconnecting Customer by the Company prior to the Application.

"Preceding Study" shall mean any study that is required by the Company to be completed prior to commencing the Group Study process for the remaining applicant(s) in a Common Study Area. A Preceding Study shall be deemed to have commenced upon execution of the relevant Impact Study Agreement(s) and the initial payment of the study costs. A Preceding Study shall be deemed to be complete upon issuance of the final Impact or Group Study report.

"Public Facility" shall mean any Facility (1) that is owned or operated by a municipality or other governmental entity; or (2) that is sited on land of a municipality or other governmental entity; or (3) which for purposes of Net Metering qualifies as a Net Metering Facility of a Municipality or Other Governmental Entity.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

"Qualifying Facility" shall mean a generation Facility that has received certification as a Qualifying Facility from the FERC in accordance with the Federal Power Act, as amended by the Public Utility Regulatory Policies Act of 1978, as defined in 220 C.M.R. § 11.04.

"Radial Distribution Circuit" shall mean 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.

"Screen(s)" shall mean criteria by which the Company will determine if a proposed Facility's installation will adversely impact the Company EPS in the Simplified and Expedited Processes as set forth in Section 3.0.

"Simplified Process" shall mean, as described in Section 3.1, process steps from initial application to final written authorization for certain inverter-based Facilities of limited scale and minimal apparent grid impact.

"Solar Facility" shall mean a facility for the production of electrical energy that uses sunlight to generate electricity and is interconnected to the Company EPS.

"Standard Process" shall mean, as described in Section 3.4, process steps from initial application to final written authorization for Facilities that do not qualify for Simplified or Expedited treatment.

"Supplemental Review" shall mean additional engineering study to evaluate the potential impact of the Facility on the Company EPS so as to determine any requirements for processing the application through the Expedited Process.

"System Modification" shall mean modifications or additions to distribution-related Company facilities that are integrated with the Company EPS for the benefit of the Interconnecting Customer.

"Time Frame" shall mean each step in the pertinent interconnection process with a Company or Interconnecting Customer obligation of completion within the relevant Business Days in this Interconnection Tariff beginning on the next Business Day following the completion of the prior step and concluding with the applicable deliverable in this Interconnection Tariff. The Company shall report annually to the Department on its compliance with all Time Frames as provided in Department order D.P.U. 11-75-F.

"Unintentional Islanding" shall mean a situation where the electrical power from the Facility continues to supply a portion of the Company EPS past the PCC when

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

the Company's transmission or distribution system has ceased providing power for whatever reason (emergency conditions, maintenance, etc.).

"Witness Test" shall mean the Company's right to witness the commissioning testing and/or Company-required Interconnecting Customer-owned communication system. 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) Interconnection Service Agreement for Expedited and Standard Process (Exhibit G) referencing Attachments 1 – 7 (Attachments 1-7 to be developed and included as appropriate for each specific Interconnection Service Agreement) as follows:

   Attachment 1: Description of Facilities, including demarcation of Point of Common Coupling

   Attachment 2: Description of System Modifications

   Attachment 3: Costs of System Modifications & Payment Terms

   Attachment 4: Special Operating Requirements, if any

   Attachment 5: Agreement between the Company and the Company's Retail Customer (to be signed by the Company's retail Customer where DG installation and interconnection will be placed, when retail Customer is not the owner and/or operator of the distributed generation facility -- Exhibit H)

   Attachment 6: Landowner Consent Agreement (to be signed by the Landowner where the DG Facility will be located when the Landowner is neither the Customer nor Interconnecting Customer --Exhibit I)

   Attachment 7: System Modifications construction schedule

2) Application forms

   a) Simplified Process (Facilities meeting the requirements of Section 3.1) application form and service agreement (Exhibit A)

   b) Pre-Application Report Form (Exhibit B)

   c) Expedited and Standard Process application form (Exhibit C)

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

3) Supplemental Review Agreement for those projects which have failed one or more screens in the Expedited Process (Exhibit D)

4) Impact Study Agreement under the Standard Process (Exhibit E)

5) Detailed Study Agreement for the more detailed study under the Standard Process which requires substantial System Modifications (Exhibit F)

6) Agreement Between the Company and the Company's Retail Customer (Exhibit H)

7) Landowner Consent Agreement (Exhibit I)

8) Schedule Z – Additional Information Required for Net Metering Service

2.0 BASIC UNDERSTANDINGS

Interconnecting Customer intends to install a Facility on the Interconnecting 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 an 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 G to this Interconnection Tariff. If the Interconnecting Customer is not the Customer, an Agreement between the Company and the Company's Customer must be signed and included as an attachment to the Interconnection Service Agreement; a form of this agreement is attached as Exhibit H. If neither the Interconnecting Customer nor the Customer is the Landowner, then a Landowner Consent Agreement must be signed and included as an attachment to the Interconnection Service Agreement, unless the Company, in its sole discretion, waives this requirement; see Exhibit I.

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 and meet the technical requirements in Section 4.0, and must be operated as described under Section 6.0. In order to meet these requirements, an upgrade or other modifications to the Company EPS may be necessary. Subject to the requirements contained in this Interconnection Tariff, the Company or its Affiliate shall modify the Company EPS accordingly. Unless otherwise specified, the Company will build and own, as part of the Company EPS, all facilities necessary to interconnect the Company EPS with the Facility up to and including terminations at the PCC. The Interconnecting Customer shall pay all System Modification costs as set forth in Section 5.0.

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 generator 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 diligently 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 Tariff 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 Tariff does not cover the use of the distribution system to export power, or the purchase of excess power unless covered under 220 C.M.R. §§ 8.00 et seq.

3.0 PROCESS OVERVIEW

There are three basic paths for interconnection of the Interconnecting Customer's Facility in Massachusetts. They are described below and detailed in Figures 1 and 2 with their accompanying notes. Tables 1 - 6, respectively, describe the Time Frames and fees for these paths. Unless otherwise noted, all Time Frames in the Interconnection Tariff reference Company Business Days.

Prior to submitting an Application through either the Expedited or Standard Process, all Interconnecting Customers with Facilities that are 500kW or greater must request and receive a Pre-Application Report from the Company. If the Pre-Application is not received within the applicable Time Frame, the Interconnecting Customer can file its Application. The Pre-Application Form is located in Exhibit B and the Pre-Application Report process is described in more detail in Section 3.2.

1) Simplified – This is for Listed inverter-based Facilities with a power rating of 15 kW or less single phase or 25 kW or less three-phase depending on the service configuration, and located on radial EPSs under certain conditions. A Listed inverter-based Facility located on a spot network EPS with a rating less than 1/15 of the Interconnecting

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Customer's minimum load or on an areas network EPS with a rating less than 1/15 of the Interconnecting Customer's minimum load and 15 kW or less would also be eligible.

2) Expedited – This is for Listed Facilities that pass certain pre-specified screens on a radial EPS.

3) Standard – This is for all facilities not qualifying for either the Simplified or Expedited interconnection processes on radial and spot network EPSs, and for all Facilities on area network EPSs.

All proposed new sources of electric power without respect to generator ownership, dispatch control, or prime mover that plan to operate in parallel with the Company EPS must submit a completed application and pay the appropriate application fee to the Company with which it wishes to interconnect. The application will be acknowledged by the Company, and the Interconnecting Customer will be notified of the application's completeness. Interconnecting Customers who are not likely to qualify for Simplified or Expedited Process may opt to go directly into the Standard Process path. Interconnecting Customers proposing to interconnect on area networks will have their Interconnection Applications reviewed under the Simplified Process or the Standard Process, depending on the proposed Facility type and/or size as described in the Interconnection Tariff. All other Interconnecting Customers must proceed through a series of screens to determine their ultimate interconnection path. Interconnecting Customers who are not sure whether a particular location is on a radial circuit, spot network, or area network should check with the Company serving the proposed Facility location prior to filing an application and the Company will verify the circuit type.

3.1 Simplified Process – Radial Distribution Circuit

This process is for Interconnecting Customers using Listed single-phase inverter-based Facilities with power ratings of 15 kW or less at locations receiving single-phase secondary service from a single-phase transformer, or using Listed three-phase inverter-based Facilities with power ratings of 25 kW or less at locations receiving three-phase secondary service from a three-phase transformer configuration, and requesting an interconnection on radial EPSs where the aggregate generating Facility capacity is less than 15% of feeder/circuit annual peak load and, if available, line segment. This is the fastest and least costly interconnection path.

The Simplified Process for Radial Distribution Circuits is as follows:

a) Application process:

i) Interconnecting Customer submits a Simplified Process application filled out properly and completely (Exhibit A).

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ii) Company acknowledges to the Interconnecting Customer receipt of the application within 3 Business Days of receipt.

iii) 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 completes review of all screens. When the Company verifies Facility equipment passes Screens 1, 2, 3, 4, and 5 in Figure 1 if a radial EPS, the project shall follow the Simplified Process. If a Facility fails Screen #5 in Figure 1, the Facility shall not be automatically evaluated under the Expedited Process. The Company shall have 20 Business Days to review an application where the Facility has failed screen #5 in Figure 1.

c) If approved, the Company signs the application approval line and sends to the Interconnecting Customer. In certain rare circumstances, the Company may require the Interconnecting Customer to pay for minor 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 minor 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. The Company signature on the application approval line constitutes a Conditional Approval to Interconnect.

d) 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.

e) The Interconnecting Customer returns the Certificate of Completion to the Company (refer to Attachment 2 of the Simplified Process Application for the Certificate of Completion).

f) Following receipt of the Certificate of Completion, the Company may inspect the Facility for compliance with its standards by arranging for a Witness Test. The Company is obligated to complete this Witness Test within 10 Business Days of the receipt of the Certificate of Completion. If the Company does not inspect in 10 Business Days or by mutual agreement of the Parties, the Witness Test is deemed waived.

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g) Assuming the wiring inspection, all Compliance Documentation and/or Witness Test are satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized and issues the Authorization to Interconnect. If the wiring inspection, Compliance Documentation and/or Witness Test are not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required to receive the Authorization to Interconnect. The Company shall issue the Authorization to Interconnect within 5 Business Days from the Interconnecting Customer's satisfaction of the connection requirements (i.e. the wiring inspection, all Compliance Documentation, and the Witness Test) and the Company's installation of the required meter, whichever occurs later. The Interconnecting Customer has no right to operate in parallel until they have received the Authorization to Interconnect.

If the Interconnecting Customer does not substantially complete construction within 12 months after receiving the Conditional Approval to Interconnect from the Company, the Company will require the Interconnecting Customer to reapply for interconnection. Notwithstanding the foregoing, the Interconnecting Customer's obligation to complete construction within 12 months is subject any claim of Force Majeure made by the Interconnecting Customer in accordance with, and subject to the limitations of, Section 3.7.

3.1.1 Simplified Process – Networks

This process is for Interconnecting Customers using Listed inverter-based Facilities where the aggregate generating Facility capacity is less than one fifteenth of the Interconnecting Customer's minimum load and requesting an interconnection on a Spot or Area Network. For Interconnecting Customers interconnecting on an Area Network, the power rating of the Listed inverter must be 15 kW or less. This is the fastest and least costly interconnection path for interconnection on a network.

The Simplified Process for Networks is as follows:

a) Application process:

i) Interconnecting Customer submits a Simplified Process application filled out properly and completely (Exhibit A).

ii) Company acknowledges to the Interconnecting Customer receipt of the application within 3 Business Days of receipt.

iii) 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.

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b) Company completes review of all applicable screens in Figure 2. For proposed facilities on a Spot Network, Screen 3 is not required for the review and should be bypassed. When the Company verifies Facility equipment passes all applicable Screens in Figure 2, the project shall follow the Simplified Process. The determination of minimum load is critical when connecting to network distribution systems. If the Interconnecting Customer minimum load is known, the Company shall have 30 Business Days to review an application. If there is no existing meter or the existing metering in place cannot be used to determine the minimum load, then a meter capable of recording minimum loads must be installed at the Interconnecting Customer's expense. In such cases, the Company may install an interval meter to measure 3 months of continuous customer load capturing the annual minimum load. Notwithstanding the foregoing, if the Interconnecting Customer has another type of power monitoring equipment installed at the Facility that is capable of providing minimum loads satisfactory to the Company, an interval meter would not be required. In addition, if the Company has another type of power monitoring equipment that can be installed, either at the Facility or off-site, that is capable of providing minimum loads, an interval meter will not be required. The maximum time the interval metering (or other Company approved monitoring equipment) will be used to measure the minimum load is 9 months from the point of the time the analysis was commenced. The Company can remove the interval meter at the Interconnecting Customer's expense if the Interconnecting Customer requests its removal provided the interval meter is not required for the rate the Customer takes service on when the generation Facility is installed.

c) If approved, the Company signs the application approval line and sends to the Interconnecting Customer. In certain rare circumstances, the Company may require the Interconnecting Customer to pay for minor 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 minor 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. The Company signature on the application approval line constitutes a Conditional Approval to Interconnect.

d) 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.

e) The Interconnecting Customer returns the Certificate of Completion to the Company (refer to Attachment 2 of the Simplified Process Application for the Certificate of Completion).

f) Following receipt of the Certificate of Completion, the Company may inspect the Facility for compliance with its standards by arranging for a Witness Test. The Company is obligated to complete this Witness Test within 10 Business Days of the receipt of the Certificate of Completion. If the Company does not inspect in 10 Business Days or by mutual agreement of the Parties, the Witness Test is deemed waived.

g) Assuming the wiring inspection, all Compliance Documentation and/or Witness Test are satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized and issues the Authorization to Interconnect. If the wiring inspection, Compliance Documentation and/or Witness Test are not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required to receive the Authorization to Interconnect. The Company shall issue the Authorization to Interconnect within 5 Business Days from the Interconnecting Customer's satisfaction of the connection requirements (i.e. the wiring inspection, all Compliance Documentation, and the Witness Test) and the Company's installation of the required meter, whichever occurs later. In addition, the Interconnecting Customer will be required to have a load monitoring system in place to prevent the 1/15th minimum load from being exceeded pursuant to Section 6.3 and to provide annual test results of the system pursuant to Section 6.4.3.The Interconnecting Customer has no right to operate in parallel until they have received the Authorization to Interconnect.

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

3.2 Pre-Application Reports

Prior to submitting an Interconnection Application through either the Expedited or Standard Process (see Sections 3.3 and 3.4), all Interconnecting Customers with Facilities that are 500kW or greater must request and receive a Pre-Application Report from the Company. The Pre-Application Form is located in Exhibit B. The Pre-Application Report is optional at the election of the Interconnecting Customer for those Facilities that are less than 500kW. There is no fee for either a mandatory or optional Pre-Application Report.

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Following the submission for either a mandatory or optional Pre-Application Report, the Company shall provide the Report within 10 Business Days. The Pre-Application Report produced by the Company is non-binding, and the Interconnecting Customer must still successfully apply to interconnect to the Company's EPS.

The Company shall provide the following information for the proposed Facility interconnection location in the Pre-Application Report:

1) Circuit voltage at the substation;
2) Circuit name;
3) Circuit voltage at proposed Facility;
4) Whether Single or three phase is available near site;
5) If single phase – distance from three phase service;
6) Aggregate connected Facilities (kW) on circuit;
7) Submitted complete applications of Facilities (kW) on circuit that have not yet been interconnected;
8) Whether the Interconnecting Customer is served by an area network, a spot network, or radial system;
9) Identification of feeders within ¼ mile of the proposed interconnection site through a snap-shot of GIS map or other means; and
10) Other potential system constraints or critical items that may impact the proposed Facility.

3.3 Expedited Process

Other Interconnecting Customers not qualifying for the Simplified Process or not in the Standard Process must pass a series of screens before qualifying for Expedited interconnection. Depending on whether one or more screens are passed, additional steps may be required.

The Expedited Process is as follows:

a) Application process:

i) Interconnecting Customer submits an Expedited/Standard application filled out properly and completely (Exhibit C).

ii) Company acknowledges to the Interconnecting Customer receipt of the application within 3 Business Days of receipt.

iii) 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.

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b) Company then conducts a complete review of all screens, which includes applying the screening methodology (Screens 1 through 10 in Figure 1).

The Company reserves the right to conduct internal studies if necessary and at no additional cost to the Interconnecting Customer, such as but not limited to: protection review, aggregate harmonics analysis review, aggregate power factor review and voltage regulation review. Likewise, when the proposed interconnection may result in reversed load flow through the Company's load tap changing transformer(s), line voltage regulator(s), control modifications necessary to mitigate the effects may be made to these devices by the Company at the Interconnecting Customer's expense or the Facility may be required to limit its output so reverse load flow cannot occur or to provide reverse power relaying that trips the Facility.

c) As part of the Expedited Process, the Company will assess whether any System Modifications are required for interconnection, even if the project passes all of the applicable Screens. If the needed modifications are minor, that is, the requirement can be determined within the time allotted through the application fee and any internal studies, then the modification requirements, reasoning, and costs for these minor modifications will be identified and included in the executable Interconnection Service Agreement.

If the requirements cannot be determined within the time and cost allotted in the initial review and any internal studies, the Company may require that the project undergo a Supplemental Review that determines System Modifications, but does not require review of the Supplemental Review Screens A-C as described in Figure 1, Note 8. The Company will provide a Supplemental Review Agreement (Exhibit D). The time allocated for Supplemental Review is a maximum of 30 hours of engineering time. In all cases, the Interconnecting Customer will pay for the cost of modifications as discussed in Section 5.0.

d) Assuming all applicable Screens are passed and System Modifications have been determined in accordance with Section 3.3(c) above, if applicable, the Company sends, within 10 Business Days, the Interconnecting Customer an executable Interconnection Service Agreement, which will include a quote for any required System Modifications and/or reasonable Witness Test costs, and a construction schedule for any required System Modifications.

e) If one or more Screens are not passed, the Company will provide a Supplemental Review Agreement (Exhibit D); however, the Interconnecting Customer may

elect to go directly to an Impact Study in the Standard Process. If the Interconnecting Customer executes the Supplemental Review Agreement, the Company will conduct the review within 20 Business Days. If the Supplemental Review determines the requirements for processing the application through the Expedited Process including any System Modifications, then the Company will offer an executable Interconnection Service Agreement that identifies System Modification requirements, reasoning, and costs for these modifications as defined in Section 5.0, as well as a construction schedule for such modifications. If the Supplemental Review does not determine the requirements, it will include a proposed Impact Study Agreement as part of the Standard Process which will include an estimate of the cost of the study. Even if a proposed project initially fails a particular Screen in the Expedited Process, if Supplemental Review shows that it can return to the Expedited Process then it will do so. Supplemental Review includes up to 30 hours of engineering time.

f) If an Interconnection Application fails the Supplemental Review, the Company shall provide, in writing, the specific Screen(s) that the Application failed, including the technical reason for failure, and the data and the analysis supporting the Supplemental Review the Company shall provide the Interconnecting Customer the option to participate in a Supplemental Review results meeting. Within 5 Business Days of the Interconnecting Customer's request for a Supplemental Review results meeting, the Company shall contact the Interconnecting Customer and offer to convene a meeting at a mutually acceptable time to review the Supplemental Review screen analysis and related results to determine what modifications, if any, may permit the Facility to be connected safely and reliably without requiring the Interconnection Application to be reviewed in the Standard Process, including conducting an Impact Study.

g) The Company will provide the Interconnecting Customer with an Interconnection Service Agreement for signature. Time Frames for signing the Interconnection Service Agreement are specified in Section 3.6.2. Once the Interconnecting Customer signs and returns the Interconnection Service Agreement, it is then counter-signed and dated by the Company.

h) If the Interconnecting Customer executes the Interconnection Service Agreement, the Interconnecting Customer will pay costs associated with System Modifications in accordance with the time frames specified in Section 3.6.2.

i) Interconnecting Customer completes installation and, upon receipt of payment in full, the Company completes System Modifications, if required, within the mutually agreed upon Time Frame provided in the System Modifications construction schedule in the Interconnection Service Agreement.

j) Interconnecting Customer sends Certificate of Completion to Company. See Attachment 2 of the Interconnection Application.

k) Following receipt of the Certificate of Completion, the Company may inspect the Facility for compliance with standards by arranging for a Witness Test. The Company is obligated to complete this Witness Test within 10 Business Days of the receipt of the Certificate of Completion, and if required, Company-approved Witness Test procedure. If the Company does not inspect in 10 Business Days or by mutual agreement of the Parties, the Witness Test is deemed waived.

l) Assuming the wiring inspection, all Compliance Documentation and/or Witness Test are satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized and issues the Authorization to Interconnect. If the wiring inspection, Compliance Documentation and/or Witness Test are not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required to receive the Authorization to Interconnect. The Company shall issue the Authorization to Interconnect within 5 Business Days from the Interconnecting Customer's satisfaction of the connection requirements (i.e. the wiring inspection, all Compliance Documentation, and the Witness Test) and the Company's installation of the required meter, whichever occurs later. The Interconnecting Customer has no right to operate in parallel until they have received the Authorization to Interconnect.

m) An Interconnecting Customer's Interconnection application may only be moved from the Expedited Process to the Standard Process if the application fails a Screen in Figure 1 or 2 or the Supplemental Review of an application that failed a Screen in Figure 1 or 2 exceeds 30 hours of engineering time, or the Interconnecting Customer elects to go directly to the Standard Process.

3.4 Standard Process

The Standard Process has the longest maximum time period and highest potential costs. There are three ways to enter the Standard Process:

a) Interconnecting Customers may choose to proceed immediately to the Standard Process. Application process:

i) Interconnecting Customer submits an Expedited/Standard Application filled out properly and completely (Exhibit C).

ii) Company acknowledges to the Interconnecting Customer receipt of the application within 3 Business Days.

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iii) 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) Based upon the results of the initial and Supplemental Reviews, Interconnecting Customers may be required to enter the Standard Process.

c) Based on the results of the Screens in Figure 2 for networks, Interconnecting Customers may be required to enter the Standard Process.

The Standard Process is as follows:

a) The Company will conduct an initial review, which may include if requested, a scoping meeting/discussion with the Interconnecting Customer to review the application. From the initial review, the Company will provide pertinent information such as:
- The available fault current at the proposed location;
- The existing peak loading on the lines in the general vicinity of the Facility;
- The configuration of the distribution lines;
- If the application is subject to the Pre-Application Report requirement in Section 3.2, the Pre-Application Report may, as necessary, be discussed at the initial review.

b) Company provides an Impact Study Agreement, including a cost estimate for the study. Where there are other potentially Affected Systems, and no single Party is in a position to prepare an Impact Study covering all potentially Affected Systems, the Company will coordinate but not be responsible for the timing of any studies required to determine the impact of the interconnection request on other potentially Affected Systems. The Interconnecting Customer will be directly responsible to the potentially Affected System operators for all costs of any additional studies required to evaluate the impact of the interconnection on the potentially Affected Systems. To the extent any studies or System Modifications are required, all associated agreements will be between the Affected System operator and the Interconnecting Customer. The Time Frames in Tables 1 through 5 will be affected if ISO-NE determines that a system Impact Study is required. This will occur if the Interconnecting Customer's Facility is, or group of facilities are, equal to or greater than 5 megawatts ("MW") and may occur if the Interconnecting Customer's Facility is greater than 1 MW.

c) Once the Interconnecting Customer executes the Impact Study Agreement and pays pursuant to the terms thereof, the Company will conduct the Impact Study.

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d) If the Interconnecting Customer has not yet selected the generation equipment, the Interconnecting Customer has the right to ask the Company to perform an Impact Study for up to three options of the same generation type and location. However, the cost of the Impact Study will increase in accordance with the complexity of the requested options. Also, the Time Frame for the Impact Study will revert to a mutually agreed upon duration but not to exceed an additional one-third of the allowable Time Frame for each additional option.

e) If the Company determines, in accordance with Good Utility Practice, that the System Modifications to the Company EPS are not substantial, the Impact Study will determine the scope and cost of the modifications as defined in Section 5.0. If the Company determines, in accordance with Good Utility Practice, that the System Modifications to the Company EPS are substantial, the Impact Study will produce an estimate for the modification costs (within ±25%) and a Detailed Study Agreement and cost for Interconnecting Customer's approval.

f) Within the Standard Process are extended Time Frames applicable to Complex Facility Interconnection Applications that will require extensive System Modifications. The Company will inform the Interconnecting Customer within 20 days following the commencement of the Impact study whether the Interconnection Application shall be treated as a Complex Project under the Standard Process.

g) At the conclusion of the Impact Study, an Interconnecting Customer may request and sign an Interconnection Service Agreement. If an Interconnecting Customer chooses to sign an Interconnection Service Agreement following the conclusion of the Impact Study, the Interconnecting Customer agrees to be bound by the ±25% System Modification costs identified in the Impact Study (see 3.4(a)-(e) above). The Company will not be required to provide a construction schedule until after it completes the Detailed Study.

h) Once the Interconnecting Customer executes the Detailed Study Agreement and pays pursuant to the terms thereof, the Company will conduct the Detailed Study.

i) Upon completion of any necessary studies and in the event that the Interconnecting Customer did not exercise the early Interconnection Service Agreement option above, the Company shall send the Interconnecting Customer an executable Interconnection Service Agreement, which will include a quote for any required System Modifications and reasonable Witness Test costs as well as a construction schedule.

j) The Company will provide the Interconnecting Customer with an Interconnection Service Agreement for signature. Time Frames for signing the Interconnection Service Agreement are outlined in Section 3.6.2. Once the Interconnecting Customer

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signs and returns the Interconnection Service Agreement, it is then counter-signed and dated by the Company.

k) If the Interconnecting Customer executes the Interconnection Service Agreement, the Interconnecting Customer will pay costs associated with System Modifications in accordance with the time frames specified in Section 3.6.2.

l) The Interconnecting Customer completes installation and the Company, upon receipt of payment in full, completes any required System Modifications within the mutually agreed upon Time Frame provided in the construction schedule in the Interconnection Service Agreement or Detailed Study as applicable.

m) Interconnecting Customer sends Certificate of Completion to Company. See Attachment 2 of the Interconnection Application.

n) Company inspects completed installation for compliance with requirements. The Company shall require a Witness Test of the Facility as approved by the Company. The Interconnecting Customer will provide a proposed Witness Test and all requisite supporting documentation for review by the Company once the Interconnecting Customer has completed the installation of the Facility. Once all requisite information has been provided by the Interconnecting Customer, the Company shall have 8 Business Days to approve the Interconnecting Customer's proposed Witness Test. The Company shall then inform the Interconnecting Customer when it has approved the Witness Test procedures. Once the Witness Test has been approved by the Company, the Interconnecting Customer will call the Company to arrange for the Witness Test. The Company is obligated to complete this Witness Test within 10 Business Days or by mutual agreement upon receipt of the Interconnecting Customer's proposed Witness Test.

o) Assuming the wiring inspection, all Compliance Documentation and/or Witness Test are satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized and issues the Authorization to Interconnect. If the wiring inspection, Compliance Documentation and/or Witness Test are not satisfactory, the Company has the right to disconnect the Facility, and will provide information to the Interconnecting Customer describing clearly what is required to receive the Authorization to Interconnect. The Company shall issue the Authorization to Interconnect within 5 Business Days from the Interconnecting Customer's satisfaction of the connection requirements (i.e. the wiring inspection, all Compliance Documentation, and the Witness Test) and the Company's installation of the required meter, whichever occurs later. The Interconnecting Customer has no right to operate in parallel until they have received the Authorization to Interconnect.

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3.4.1 Group Study Process

a) This section shall be in effect for a period of 12 months commencing June 1, 2015 (the "Pilot Period"). Any duties or obligations of either the Company or an Interconnecting Customer associated with a Group Study that arise during the Pilot Period shall remain in effect after the Pilot Period, subject to the Company's Interconnection Tariff and Terms and Conditions for Distribution Service in effect from time to time.

b) As appropriate, the Company shall require that an Interconnecting Customer within the Common Study Area participate in the Group Study whenever a Group exists. The Company shall invite all potential Group members to a Group Study scoping meeting to discuss the feasibility of the Group Study after the initial or screening reviews have been completed for all potential Group members. The application receipt and review, and all screening reviews, for each potential Group member is subject to the applicable Time Frames set forth in the Tariff, Tables 1 to 5, as applicable. The Company may also, in its sole judgment, conduct a study for an Interconnecting Customer separate from the Group Study to the extent warranted by Good Utility Practice.

c) If any Interconnecting Customer within the Common Study Area wishes to continue in the application process outside of a Group or are removed from a Group because of non-conformance with Time Frames or other Group Study Process requirements, that Interconnecting Customer's' Facility shall be studied after the completion of the Group Study (or the study of the individual applicant that chose to remain within the Group), even if the Interconnecting Customer that was removed from the Group applied before the remaining Group member(s).

d) Each member of the Group shall pay a percentage of the Group Study cost on the basis of applied capacity (in MW AC of aggregated system design capacity for each applicant's Facility).[3] If a member ceases to belong to the Group, any contributions to the Group Study cost from that member shall be non-refundable. Time Frames for completion of Group Studies shall be by mutual agreement.

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[3] Any scope and costs of ISO New England studies shall be considered to be separate from the scope and costs of a Group Study. Each Facility included in the Group may be subject to additional ISO-NE requirements, compliance with which is the responsibility of the Interconnecting Customer.

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e) The Company may reassess study costs subsequent to a change in composition of the Group and any increase in Group Study costs must be paid by the remaining Group members.

f) A Group Study may only commence after completion of the Preceding Study that was in-process when the Group was formed and all members of the Group have met the prerequisites for commencement of an Impact Study. The Preceding Study is the Impact Study that was in process when the Group was formed, so the Time Frame for the Preceding Study is the same Time Frame applicable for the underlying Impact Study. Thereafter, the Time Frames are by mutual agreement with the parties. No Time Frame extensions shall be allowed for any Group member unless all Group members agree to the extension in writing. Should any Group member not comply with its Time Frame requirements, the member shall be removed from the Group.

g) The Group Study shall be performed such that System Modifications (whether shared or individual) and associated costs shall first be determined for the entire Group, along with the allocated costs for each member of the Group. Generally, subsequent to studying the impacts and System Modification requirements of the entire Group, the same study approach shall be performed in iterations for the Group with the latest applicant in the Group removed from consideration. However, if all Group members mutually agree in the scoping meeting, the Company may limit the scope of the Group Study to particular iterations of the composition of the Group.

h) Once all iterations of the Group Study are complete, the Group Study report shall be distributed to the Group, and the Group member(s) shall decide whether to proceed through the remainder of the interconnection process. Earlier applicants within the Group shall have precedence over later applicants if earlier applicants are able to modify their applications that obviate the need for significant distribution modifications for their modified projects. To the extent that a change to the Group composition requires additional studies, the remaining Group member(s) shall pay their cost, and the completion date of the revised study shall be re-estimated by the Company.

i) Cost allocations shall be assessed on the basis of applied capacity (in MW AC of aggregated system design capacity for each applicant's Facility) for the portion of System Modifications associated with the Group Study that benefit multiple Group member(s). This shall pertain to both Detailed Study and construction costs. The cost for Detailed Studies and System Modifications that are not common shall be the sole responsibility of the Group member(s) for whom the System Modifications are required. The Company shall not commence any work on Detailed Studies associated with common System Modifications until full payment is received from all affected Group member(s) for the studies. The Company shall not commence any work on

construction associated with common System Modifications until full payment is received from all affected Group member(s) for the System Modifications. System Modifications costs associated with the Group Study shall be subject to section 5.3 of the Interconnection Tariff.

j) The Group Study shall not be binding upon any member. To the extent that any Interconnecting Customers are no longer part of an on-going Group Study or submit applications after an on-going Group Study has commenced, the on-going Group Study shall be considered a Preceding Study.

k) A group of facilities on a common bus may be subject to additional requirements, including without limitation ISO-NE operating procedure OP-14. If the ISO-NE maintains that a group of facilities must be set up as a single modeled generator, each member of the group (i.e., each individual generator) must comply with these requirements. To the extent permitted under applicable ISO-NE requirements, group members may arrange for an alternative means of performing the duties required under OP-14. In all cases, it will be the group members' responsibility to determine what the individual ISO-NE requirements are, and the most efficient means to comply with those requirements (i.e., individually or collectively).

3.5 Time Frames

The Company and Interconnecting Customer will meet Time Frames for each step in the pertinent interconnection process. The Time Frames provided in this tariff represent a Company or Interconnecting Customer obligation of completion within the relevant Business Days in the Tariff beginning with the next Business Day following the completion of the prior step and concluding with the applicable deliverable in the tariff. All steps with a Time Frame represent a regulatory obligation of the Company where applicable and an Interconnecting Customer obligation to ensure maintaining their place in the interconnection process. Time Frames are subject to Force Majeure as provided in Section 3.7 and Parties' extensions as described in Section 3.6.2.

Unless otherwise noted, all Time Frames in the Interconnection Tariff reference Company Business Days. In addition, in the event information has been requested of the Interconnecting Customer, all application time keeping shall commence the next Business Day following receipt of information from the Interconnecting Customer.

If an Interconnecting Customer requests a project change during the interconnection process prior to the execution of the Interconnection Service Agreement, and if the Company determines the change is "significant", the Interconnecting Customer will be required to submit a new

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Interconnection Application with associated fees and the revised project shall be placed at the end of the project queue. If the Company determines the change results in "moderate" alterations to the project, the Interconnecting Customer will be required to resubmit their Interconnection Application with all updated information. For proposed changes with "moderate" impacts on the project, the Company shall determine whether additional fees are required. While the Interconnecting Customer will not have to reapply and start the Interconnection Application process over, the Company will reset the Study Time Frame to the beginning, but endeavor to complete the Study earlier than that allotted time. "Significant" and "moderate" shall be defined by the Company-specific technical standards.

If the Interconnecting Customer requests that the Company study "significant" alternative equipment or changes the capacity of the interconnecting Facility that requires Company restudying, subsequent to an executed Interconnection Service Agreement, the Company and Interconnecting Customer will determine a mutually agreed to Time Frame and applicable fees/costs covered by the Interconnecting Customer. "Significant" shall be defined by the Company-specific technical standards.

Table 1 lays out the maximum Time Frames allowed under the Simplified Process. Table 2 lays out the maximum Time Frames allowed under the Expedited Process. Table 3 lays out the maximum Time Frames allowed under the Standard Process.

Table 4 lays out the maximum Time Frames allowed under the Standard Process for Projects deemed to be Complex Projects.

The Time Frame for each step is stopped when awaiting information from Interconnecting Customers. Any delays caused by Interconnecting Customer will interrupt the applicable Time Frame.

For the Expedited and Standard processes, if the Interconnecting Customer does not initiate construction within twelve (12) months of signing the Interconnection Service Agreement, the Company may require the Interconnecting Customer to provide evidence that the project is moving toward construction. In the event that the Interconnecting Customer cannot provide such evidence, the Company reserves the right to require additional study or require the Interconnecting Customer to reapply for interconnection. Situations that could trigger enforcement of this time limit are: (1) material changes on the distribution circuits (e.g., load changes, circuit reconfiguration) or (2) a second application for interconnection received by the Company on a circuit from the same substation. The same rights of the Company to require the Interconnecting Customer to reapply for interconnection pertains if the Interconnecting Customer, after initiating construction, does not complete construction within twenty-four months. Notwithstanding these maximum Time Frames, the Company shall endeavor to meet the Interconnecting Customer's needs. However, the Company will be required to retain the

work previously performed in order to reduce the initial and Supplemental Review costs incurred for a period of no less than 1 year.

3.6 Interconnection Application and Facility Construction Time Frame Management

3.6.1 Initial Withdrawal Process (one time event within 2-3 months after DPU Order, D.P.U. 11-75-E issued on March 13, 2013)

For those Interconnecting Customers with Interconnection Applications pending on the effective date of these tariff revisions, at any stage in the Interconnection Application or Facility construction process, if a Company has not had contact with an Interconnecting Customer for more than 30 Business Days, the Company shall contact, via letter and email or telephone if the Company does not have an email address for the Interconnecting Customer, the Interconnecting Customer, alternative contact(s), and the most recent point of contact. The Company must note in this communication that, in the event the Interconnecting Customer does not contact the Company within 30 Business Days, the Interconnecting Customer's Interconnection Application will be considered withdrawn as authorized by the Department and that, if the Interconnecting Customer wished to pursue interconnection in the future, he/she would need to reapply. If the Interconnecting Customer responds, the Interconnection Application shall follow the On-Going Interconnecting Customer Time Frame Compliance set out below. If the Interconnecting Customer does not contact the Company within the allotted 30 Business Days, the Interconnection Application shall be considered withdrawn and, any fees paid shall not be refunded. However, the Company will be required to retain the work previously performed in order to reduce the initial and Supplemental Review costs incurred for a period of no less than 1 year.

3.6.2 On-Going Interconnecting Customer Time Frame Compliance

A request from the Company to an Interconnecting Customer for information will allow the greater of 15 Business Days or half the allotted time within the step for the Interconnecting Customer to respond. A request from the Company to an Interconnecting Customer for a signature for any study agreement (i.e., Supplemental Review, Impact Study, or Detailed Study) will allow 15 Business Days for the Interconnecting Customer to respond. In the event that an Interconnecting Customer misses a deadline under the time allotted above, the Company shall notify the Interconnecting Customer via email of the missed deadline and that the Interconnecting Customer will be given 10 Business Days to cure the failure or request an extension. If the Interconnecting Customer requests an extension, he/she will be granted one extension equal to the length of the Time Frame for that step of the Interconnection Application or Facility construction process. Additionally, for non-solar Facilities, additional extensions for cause will be allowed pursuant to a mutual agreement between the Company and the Interconnecting Customer.

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The following provisions regarding Time Frame extensions are solely applicable to Solar Facilities.

a) The Interconnecting Customer may request an additional extension period of 30 Business Days if the Interconnecting Customer cannot meet a request for information related to the engineering studies and reviews being performed by the Company within the relevant Time Frame because the information requested is held by a third party (i.e., equipment manufacturer) and such information cannot be obtained by the Interconnecting Customer despite reasonable efforts to do so. The Interconnecting Customer may request such an extension up to two times prior to the Company's provision of an Interconnection Service Agreement to the Interconnecting Customer or prior to the completion of the Detailed Study if the Interconnecting Customer elected to accelerate execution of the Interconnection Service Agreement pursuant to Section 3.4(g). There shall be no additional fee for an extension under this provision.

b) Once during the interconnection process, an Interconnecting Customer seeking to interconnect a Solar Facility may request an additional extension period of six months for legal challenges related to the Facility. The Interconnecting Customer shall submit a Certification that a governmental permit or approval for the Facility is subject to a pending legal challenge prior to the Time Frame deadline or during the initial Time Frame extension period described above. This additional extension period for legal challenges terminates at the end of the legal challenge or six months after the first day of this additional extension period, whichever comes first. There shall be no additional fee for an extension under this provision.

c) Once during the interconnection process, an Interconnecting Customer of a Public Facility seeking to interconnect a Solar Facility may request an additional extension period of six months by certifying to the Company that one or more of the following situations exists: (1) a town meeting vote is required for the Public Facility; (2) special legislation is required in relation to the Public Facility; or (3) any approval for the Public Facility is necessary under Article 97 of the Massachusetts Constitution. The additional extension period for Public Facilities shall terminate at the end of the governmental process specified above or six months after the first day of the additional extension period for Public Facilities, whichever comes first. There shall be no additional fee for an extension under this provision. Pursuant to this provision, Certification shall consist of a written statement based on knowledge, information, and belief that the relevant claims are true.

In the event that the Interconnecting Customer requests an extension by one of the methods described above within 1/3 of the expiration of the end of a step Time Frame, the Company shall receive an additional number of days to complete the step, equal to 1/3 of the total Company

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Time Frame for that step in the Interconnection Application, to complete its obligations. Notwithstanding the foregoing, all Time Frames may be extended by mutual agreement.

The Company shall track all extensions granted under this Section.

In the event that an Interconnecting Customer fails to meet his/her obligations under the Time Frame extensions, the Interconnection Application shall be considered withdrawn, and, if the Interconnecting Customer determines to move forward, he/she would need to reapply for interconnection. Any fees paid shall not be refunded.

Interconnecting Customers will have 20 Business Days to sign an Interconnection Service Agreement provided by the Company or provide comments to the Company on the Interconnection Service Agreement, or the Interconnection Application shall be considered withdrawn and the Interconnecting Customer would need to reapply for interconnection. Further, any fees paid will not be refunded. If the Interconnecting Customer provides comments, the Interconnecting Customer and the Company will have 30 Business Days to resolve issues presented in the comments. After 30 Business Days, if there is no resolution and no request from the Interconnecting Customer for ADR, the Interconnection Application will be considered withdrawn and the Interconnecting Customer would need to reapply for interconnection. Any fees paid will not be refunded.

Interconnecting Customers shall not be required to pay any costs related to Company infrastructure upgrades or System Modifications upon execution of the Interconnection Service Agreement (or once the Interconnecting Customer receives the construction schedule). Interconnecting Customers shall have 120 Business Days from the date of execution of an Interconnection Service Agreement to pay 25 percent of those costs. If an Interconnecting Customer pays such cost within the 120 Business Day Time Frame, the Interconnecting Customer shall have an additional 120 Business Days from the date of first payment to pay the remainder of the costs. Construction estimates are valid for 60 Business Days from when they are delivered to the Interconnecting Customer. If an Interconnecting Customer payment is not received within 60 Business Days of receiving the Interconnection Service Agreement in the Expedited Process, or the Impact Study in the Standard Process, the Company has the right to reassess construction costs and Time Frames. In the event that the Interconnecting Customer fails to pay the Company within the Time Frame required by this provision (or within any extension to such Time Frame as authorized in this Section), the Company will require the Interconnecting Customer to reapply for interconnection. Further, any fees paid will not be refunded. The construction schedule will commence once the Interconnecting Customer's financial payment has been made in full. The Company's obligation to the construction schedule (as it appears in either the Interconnection Service Agreement or the Detailed Study, if the Interconnecting Customer has opted to sign the Interconnection Service Agreement without a Detailed Study) begins on the next Business Day after the Company receives full payment for such construction.

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It should be noted that the Company is not required to conduct the Detailed Study or order any of its equipment without receiving adequate payment from the Interconnecting Customer nor will it be required to initiate any construction before it has received full payment from the Interconnecting Customer. The timing of the payments is likely to have an impact on the construction schedule.

3.7 Force Majeure

a) If a Force Majeure Event prevents a Party from fulfilling any obligations under this Interconnection Tariff, 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 will 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 will be entitled to suspend or modify its performance of obligations under this Interconnection Tariff, other than the obligation to make payments then due or becoming due under this Interconnection Tariff, but only to the extent that the effect of the Force Majeure Event cannot be mitigated by the use of reasonable efforts. The affected Party will use reasonable efforts to resume its performance as soon as possible. In no event will the unavailability or inability to obtain funds constitute a Force Majeure Event.

b) Changes in local, state or federal laws, regulations or policy relating to distributed generation or distributed generation price changes will not constitute an event of Force Majeure, but if they have substantial impact on a Company's ability to meet Time Frames such changes should constitute a mitigating factor in the measurement or enforcement of Company Time Frames, for example through a Service Quality Metric or alternate enforcement mechanism established by the Department pursuant to Section 49 of Chapter 209 of the Laws of 2012.

3.8 Time Frame Notification

An Interconnecting Customer may request a review of Time Frame compliance at any time in the interconnection process or at each stage of the interconnection process if a Time Frame deadline has been missed. The Company will provide, via email, a response to the request within 10 Business Days and provide, if a Time Frame deadline was missed, the reason for the missed deadline and the expected date the process step will be completed.

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3.9 Application Fee Refund

a) Within 30 Business Days of the Company's delivery of an executable ISA to the Interconnecting Customer, an Interconnecting Customer may claim that the Company exceeded the aggregate maximum number of Business Days the Company is allowed by the Tariff to deliver an executable Interconnection Service Agreement commencing from the date an application is received ("Aggregate Allowed Tariff Time Frame"). The Customer shall provide the Company with written notice of the basis for any such claim.

b) Within 10 Business Days after the Company receives an Interconnecting Customer's written claim made in accordance with Section 3.9 a) (commencing on the next Business Day after such claim is received), the Company will review the Interconnecting Customer's documentation of non-compliance and make a determination as to whether it exceeded the Aggregate Allowed Tariff Time Frame. In communicating its determination to the Interconnecting Customer, the Company shall provide the Interconnecting Customer with written notice of the basis for its determination.

c) If the amount of time expended is still in dispute, the disputed data will be presented to the Department's distributed generation Ombudsperson for review. If either party is aggrieved by the decision of the Ombudsperson, either party may invoke the Dispute Resolution Process in Section 9.0 of the Interconnection Tariff within 10 Business Days of such decision.

d) If it is determined in accordance with the above procedures that the Company has not complied with the Aggregate Allowed Tariff Time Frame, it shall process a refund of the Interconnecting Customer's application fee within 30 Business Days following the final determination of non-compliance.

e) Nothing in Section 3.6 (Interconnection Application and Facility Construction Time Frame Management) shall prevent an Interconnecting Customer from pursuing an application fee refund in accordance with this Section 3.9.

3.10 Fee Schedules

Table 6 lays out the fees required for Interconnecting Customers to apply for interconnection.

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Section 3 Figures and Tables

Figures 1-2 are the Interconnection process flows. Tables 1-5 are the process Time Frames. Table 6 lays out the fees required for Interconnecting Customers to apply for interconnection.

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C

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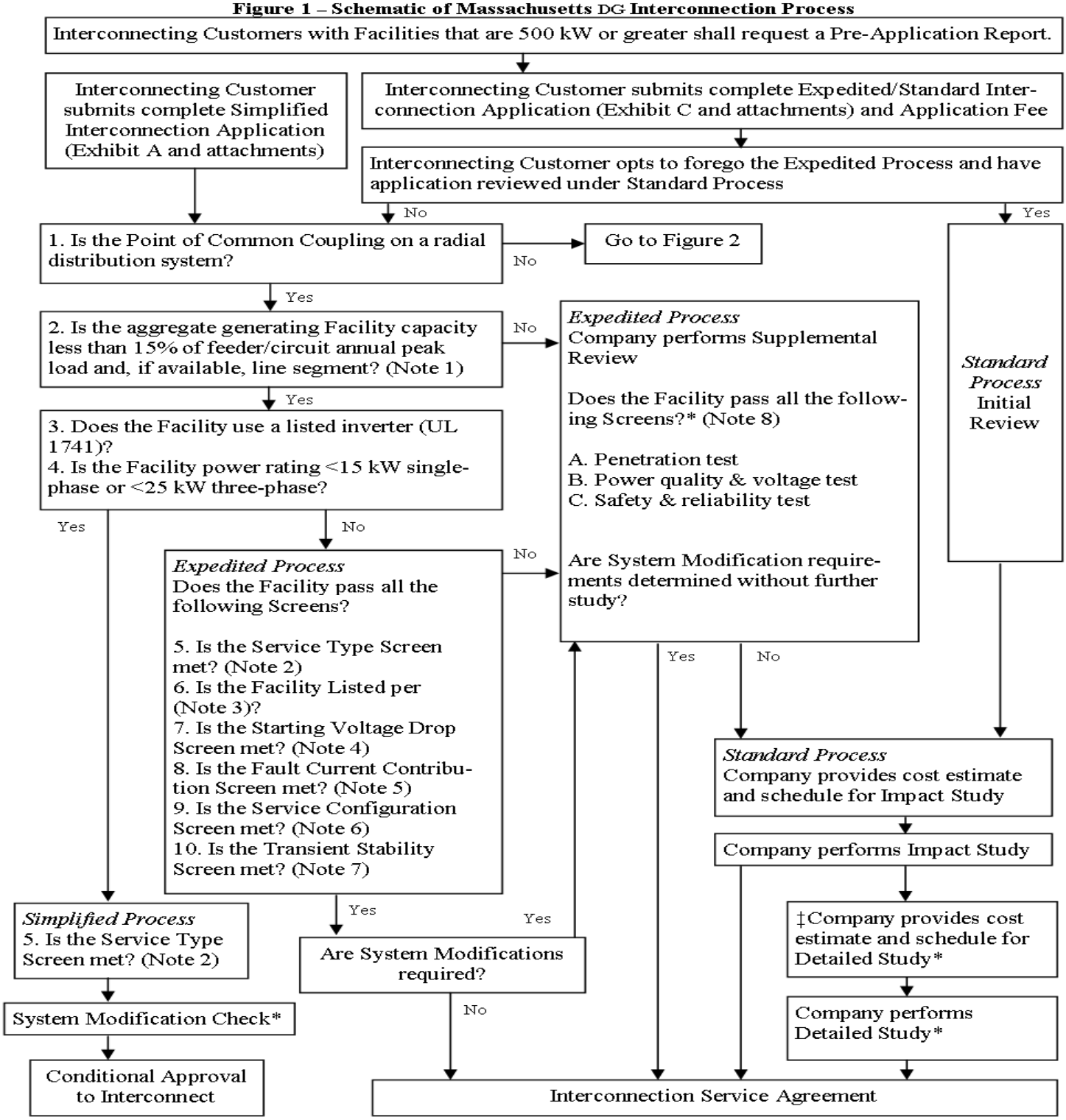
Figure 1 – Schematic of Massachusetts DG Interconnection Process



*Only if required
‡If a Detailed Study is required, the Interconnecting Customer may request an Interconnection Service Agreement before the Detailed Study is completed. Refer to Section 3.4.

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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. This screen includes a review of the type of electrical service provided to the Interconnecting 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.

Note 3. A Listed Facility has successfully passed all pertinent tests to conform with IEEE Standard 1547. IEEE Standard 1547 includes design specifications, operational requirements, and a list of tests that are required for Facilities. IEEE Standard 1547.1 describes how to conduct tests to show compliance with provisions of IEEE Standard 1547. To meet Screen 3 or 4, Interconnecting Customers must provide information or documentation that demonstrates how the Facility is in compliance with the IEEE Standard 1547.1. A Facility will be deemed to be in compliance with the IEEE Standard 1547.1 if the Company previously determined it was in compliance. Interconnecting Customers who can demonstrate Facility compliance with IEEE Standard 1547.1, with the testing done by a nationally recognized testing laboratory, will be eligible for the Expedited Process, and may be eligible for the Simplified Process upon review by the Company.

Massachusetts has adopted UL1741 (Inverters, Converters and Charge Controllers for Use in Independent Power Systems) and UL2200 (Stationary Engine Generator Assemblies) as the standard for power systems to comply with IEEE Std 1547 and 1547.1. Equipment listed to UL1741 or UL2200 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 it has been listed to either of these standards.

Note 4. This Screen only applies to Facilities that start by motoring the generating unit(s) or the act of connecting synchronous generators. The voltage drops should be less than the criteria below. There are two options in determining whether Starting Voltage Drop could be a problem. The option to be used is at the Company's discretion:

> Option 1: The Company may determine that the Facility's starting inrush current is equal to or less than the continuous ampere rating of the Facility's service equipment.

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Option 2: The Company may determine the impedances of the service distribution transformer (if present) and the secondary conductors to the Facility's service equipment and perform a voltage drop calculation. Alternatively, the Company may use tables or nomographs to determine the voltage drop. Voltage drops caused by starting a generating unit as a motor must be less than 2.5% for primary interconnections and 5% for secondary interconnections.

Note 5. The purpose of this Screen is to ensure that fault (short-circuit) current contributions from all Facilities will have no significant impact on the Company's protective devices and EPS. All of the following criteria must be met when applicable:

a) The proposed Facility, in aggregation with other generation on the distribution circuit, will not contribute more than 10% to the distribution circuit's maximum fault current under normal operating conditions at the point on the high voltage (primary) level nearest the proposed PCC.

b) The proposed Facility, in aggregate with other generation on the distribution circuit, will not cause any distribution protective devices and equipment (including but not limited to substation breakers, fuse cutouts, and line reclosers), or Interconnecting Customer equipment on the EPS to exceed 85% of the short-circuit interrupting capability. In addition, the proposed Facility will not be installed on a circuit that already exceeds 85% of the short-circuit interrupting capability.

c) When measured at the secondary side (low side) of a shared distribution transformer, the short-circuit contribution of the proposed Facility must be less than or equal to 2.5% of the interrupting rating of the Company's service equipment.

Coordination of fault-current protection devices and systems will be examined as part of this Screen.

Note 6. This Screen includes a review of the type of electrical service provided to the Interconnecting Customer, including line configuration and the transformer connection to limit the potential for creating over voltages on the Company EPS due to a loss of ground during the operating time of any anti-islanding function.

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Primary Distribution Line Type	Type of Interconnection to Primary Distribution Line	Result/Criteria
Three-phase, three wire	3-phase or single phase, phase-to-phase	Pass Screen
Three-phase, four wire	Effectively-grounded 3 phase or single-phase, line-to-neutral	Pass Screen

If the proposed generator is to be interconnected on a single-phase transformer shared secondary, the aggregate generation capacity on the shared secondary, including the proposed generator, will not exceed 20 kilovolt-ampere ("kVA").

If the proposed generator 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.

Note 7. The proposed Facility, in aggregate with other Facilities interconnected to the distribution low voltage side of the substation transformer feeding the distribution circuit where the Facility proposes to interconnect, will not exceed 10 MW in an area where there are known or posted transient stability limitations to generating units located in the general electrical vicinity (e.g., 3 or 4 transmission voltage level buses from the PCC).

Note 8. Below are the three Screens that are included in the Company's Supplemental Review of an Expedited Project.

The Supplemental Review consists of Supplemental Review Screens A through C. If any of the Screens are not passed, a quick review of the failed Screen(s) will determine the requirements to address the failure(s) or that an Impact Study is required. In certain instances, the Company may be able to identify the necessary solution and determine that an Impact Study is unnecessary. Some examples of solutions that may be available to mitigate the impact of a failed Screen are:

i) Replacing a fixed capacitor bank with a switched capacitor bank

ii) Adjustment of line regulation settings

iii) Simple reconfiguration of the distribution circuit

Screen A: Penetration Test

Where 12 months of line section minimum load data is available, can be calculated, can be estimated from existing data, or determined from a power flow model, is the aggregate Generating Facility capacity on the Line Section less than 100% of the minimum load for all line sections bounded by automatic sectionalizing devices upstream of the Generating Facility?

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If yes (pass), continue to Screen B.
If no (fail), a quick review of the failure may determine the requirements to address the failure and, if so, continue to Screen B; otherwise Interconnecting Customer will go to the Standard Process.

Note 1: The type of generation will be taken into account when calculating, estimating, or determining circuit or Line Section minimum load relevant for the application of this screen. Solar generation systems with no battery storage use daytime minimum load (i.e. 10 am to 4 pm for fixed panel systems and 8 am to 6 pm for PV systems utilizing tracking systems), while all other generation uses absolute minimum load.

Note 2: Distribution Provider will not consider as part of the aggregate generation for purposes of this screen Generating Facility capacity known to be already reflected in the minimum load data.

Significance: Penetration of Generating Facility installations that does not result in power flow from the circuit back toward the substation will have a minimal impact on equipment loading, operation, and protection of the Distribution System.

Screen B: Power Quality and Voltage Tests

In aggregate with existing generation on the line section,

a) Can it be determined within the Supplemental Review that the voltage regulation on the line section can be maintained in compliance with current voltage regulation requirements under all system conditions?

b) Can it be determined within the Supplemental Review that the voltage fluctuation is within acceptable limits as defined by IEEE 1453 or utility practice similar to IEEE1453?

c) Can it be determined within the Supplemental Review that the harmonic levels meet IEEE 519 limits at the Point of Common Coupling (PCC)?

If yes to all of the above (pass), continue to Screen C.
If no to any of the above (fail), a quick review of the failure may determine the requirements to address the failure and, if so, continue to Screen C; otherwise the Interconnecting Customer will go to the Standard Process.

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Significance: Adverse voltages and undesirable interference may be experienced by other Customers on Distribution Provider's Distribution System caused by operation of the Generating Facility(ies).

Screen C: Safety and Reliability Tests

Does the location of the proposed Generating Facility or the aggregate generation capacity on the Line Section create impacts to safety or reliability that cannot be adequately addressed without a group or Impact Study?

If yes (fail), review of the failure may determine the requirements to address the failure; otherwise the Interconnecting Customer will go to the Standard Process.
If no (pass), Supplemental Review is complete.

Significance: In the safety and reliability test, there are several factors that may affect the nature and performance of an Interconnection. These include, but are not limited to:

i) Generation energy source
ii) Modes of synchronization
iii) Unique system topology
iv) Possible impacts to critical load Customers
v) Possible safety impacts

The specific combination of these factors will determine if any system study requirements are needed. The following are some examples of the items that may be considered under this screen:

i) Does the Line Section have significant minimum loading levels dominated by a small number of Customers (i.e. several large commercial Customers)?
ii) Is there an even or uneven distribution of loading along the feeder?
iii) Is the proposed Generating Facility located in close proximity to the substation (i.e. <2.5 electrical line miles), and is the distribution line from the substation to the Customer composed of large conductor/cable (i.e. 600A class cable)?
iv) Does the Generating Facility incorporate a time delay function to prevent reconnection of the generator to the system until system voltage and frequency are within normal limits for a prescribed time?
v) Is operational flexibility reduced by the proposed Generating Facility, such that transfer of the line section(s) of the Generating Facility to a

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neighboring distribution circuit/substation may trigger overloads or voltage issues?

vi) Does the Generating Facility utilize UL 1741/IEEE 1547 Certified anti-islanding functions and equipment?

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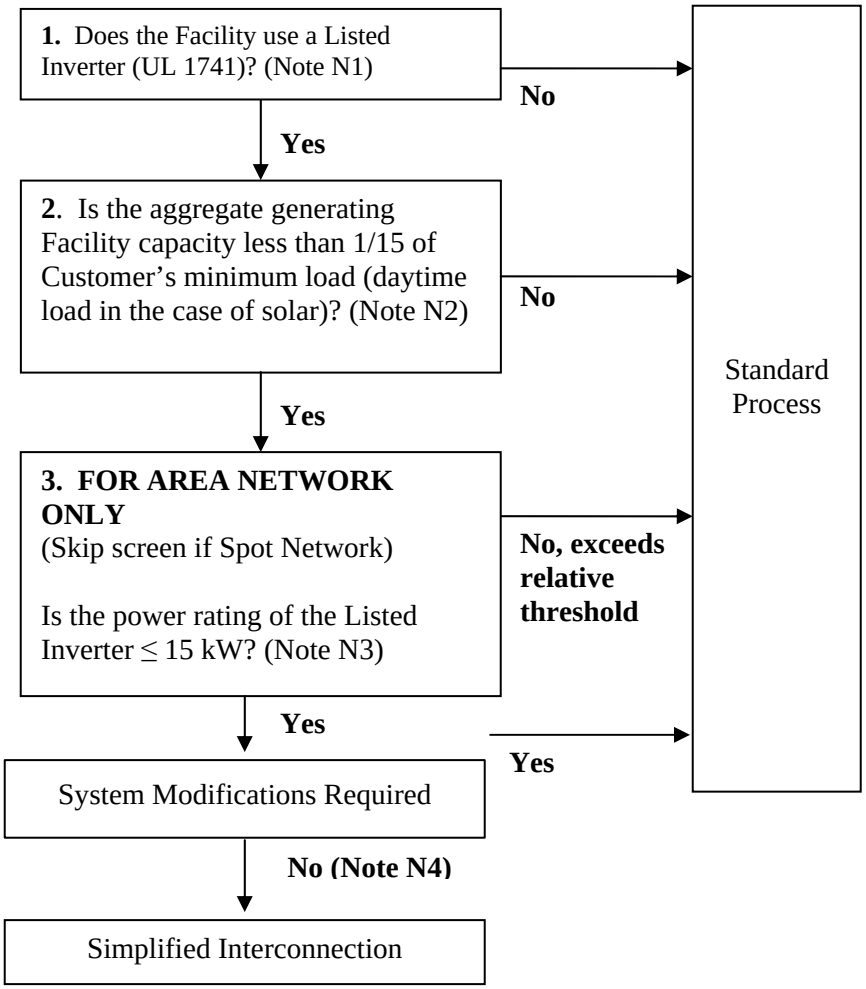
Figure 2 – Simplified Interconnection to Networks



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Explanatory Notes to Accompany Figure 2

Note N1. A Listed Facility has successfully passed all pertinent tests to conform with IEEE Standard 1547. IEEE Standard 1547 includes design specifications, operational requirements, and a list of tests that are required for Facilities. IEEE Standard 1547.1 describes how to conduct tests to show compliance with provisions of IEEE Standard 1547. To meet Screen 3 or 4, Interconnecting Customers must provide information or documentation that demonstrates how the Facility is in compliance with the IEEE Standard 1547.1 A Facility will be deemed to be in compliance with the IEEE Standard 1547.1 if the Company previously determined it was in compliance. Interconnecting Customers who can demonstrate Facility compliance with IEEE Standard 1547.1, with the testing done by a nationally recognized testing laboratory, will be eligible for the Expedited Process, and may be eligible for the Simplified Process upon review by the Company.

Massachusetts has adopted UL1741 (Inverters, Converters and Charge Controllers for Use in Independent Power Systems) and UL2200 (Stationary Engine Generator Assemblies) as the standard for power systems to comply with IEEE Standard 1547 and 1547.1. Equipment listed to UL1741 or UL2200 by a nationally recognized testing laboratory will be considered in compliance with IEEE Standard 1547 and 1547.1. An Interconnecting Customer should contact the Facility supplier(s) to determine if it has been listed to either of these standards.

Note N2. This screen is to ensure that the proposed generator will not exceed 1/15 of the Interconnecting Customer's load. The Company may require an interval meter to be installed in order to determine the Interconnecting Customer minimum load. For a Solar Facility, only load during daylight hours (while the Solar Facility may be generating) should be used to determine the Interconnecting Customer's minimum load.

Note N3. This screen is used only for facilities applying for interconnection on an area network. If the proposed facility is supplied from a Spot Network, this screen should be ignored and the analysis should continue to the system modification check.

Note N4. Subject to Section 3.1.1(c).

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Table 1 – Simplified Process Radial Distribution Circuit Time Frames (Note 1)

	Simplified Process
Eligible Facilities	Listed Small Inverter
Acknowledge Receipt of Application (Note 2)	(3 days)
Review Application for Completeness	10 days
Complete Review of All Screens	15 days (20 Days) (Note 3)
Complete Supplemental Review (if needed)	N/A
Complete Standard Process Initial Review	N/A
Send Follow-on Studies Cost/Agreement	N/A
Complete Impact Study (if needed)	N/A
Complete Detailed Study (if needed)	N/A
Send Executable Agreement (Note 4)	Done. The agreement is part of the application.
Total Maximum Days (Note 5)	25 days (30 days in the case of failure of Screen #5)
Construction Schedule	By Mutual Agreement
Witness Test	Within 10 days from receipt of the Certificate of Completion or by mutual agreement

Table 1 – Simplified Process Time Frames – Explanatory Notes

Note 1. All days listed are in Business Days. In addition, in the event information has been requested of the Interconnecting Customer, all application Time Frames shall commence the next Business Day following receipt of information from the Interconnecting Customer. All Time Frames may be extended by mutual agreement. Any delays caused by Interconnecting Customer will interrupt the applicable Time Frame. A Force Majeure Event, affecting either the Company

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or the Interconnecting Customer, shall suspend the applicable Time Frame(s). The provisions in Section 3.6.2 regarding Interconnection Application and Interconnecting Customer-requested Time Frame extensions shall also suspend the Time Frames. Pursuant to the above provisions, the Company shall withdraw an Interconnection Application as authorized by the Department.

Note 2. The 3 Business Days the Company has to acknowledge receipt of the Interconnecting Customer's Interconnection Application is included within the 10 Business Day Time Frame for the Company to review the Interconnection Application's completeness.

Note 3. In the event that the Interconnection Application fails Screen #5 in Figure 1 of the Interconnection Tariff, it shall not automatically be evaluated under the Expedited Process. The Company shall have 20 Business Days to review an application where the Facility has failed Screen #5 in Figure 1.

Note 4. Company delivers an executable agreement form. Once the Interconnection Service Agreement is delivered by the Company, any further modification and timetable will be established by mutual agreement.

Note 5. Review Application for Completeness (10 days, which includes 3 days to Acknowledge Receipt of Application) + Complete Review of All Screens and Send Executable Agreement (15 days from the notification of completeness to review all screens and send an Executable Agreement, which could be up to 20 days if the application fails Screen #5).

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Table 2 - Expedited Process Time Frames (Note 1)

	Expedited
Eligible Facilities	Listed DG
Acknowledge Receipt of Application (Note 2)	(3 days)
Review Application for Completeness	10 days
Complete Review of All Screens	25 days
Complete Supplemental Review (if needed) (Note 3)	20 days or Standard Process
Complete Standard Process Initial Review	N/A
Send Follow-on Studies Cost/Agreement	N/A
Complete Impact Study (if needed)	N/A
Complete Detailed Study (if needed)	N/A
Send Executable Agreement (Note 4)	10 days
Total Maximum Days (Note 5)	45 days (65 days if Supplemental Review is required)
Construction Schedule	By Mutual Agreement
Witness Test	Within 10 days from receipt of the Certificate of Completion or by mutual agreement

Table 2 – Expedited Process Time Frames – Explanatory Notes

Note 1. All days listed apply to Company Business Days. In addition, in the event information has been requested of the Interconnecting Customer, all application Time Frames shall commence the next Business Day following receipt of information from the Interconnecting

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Customer. All Time Frames may be extended by mutual agreement. Any delays caused by Interconnecting Customer will interrupt the applicable Time Frame. A Force Majeure Event, affecting either the Company or the Interconnecting Customer, shall suspend the applicable Time Frame(s). The provisions in Section 3.6.2 regarding Interconnection Application and Interconnecting Customer-requested Time Frame extensions shall also suspend the Time Frames. Pursuant to the above provisions, the Company shall withdraw an Interconnection Application as authorized by the Department. The Time Frames in Table 2 will be affected if ISO-NE determines that a system Impact Study is required. This will occur if the Interconnecting Customer's Facility is equal to or greater than 5 megawatts (MW) and may occur if the Interconnecting Customer's Facility is greater than 1 megawatt (MW).

Note 2. The 3 Business Days the Company has to acknowledge receipt of the Interconnecting Customer's Interconnection Application is included within the 10 business day Time Frame for the Company to review the Interconnection Application's completeness.

Note 3. In the event that an Interconnection Application in the Expedited Process fails the Review Screens in Figure 1 and/or the Supplemental Review, it shall be reviewed under the Standard Process following Standard Process Time Frames.

Note 4. Company delivers an executable agreement form. Once the Interconnection Service Agreement is delivered by the Company, any further modification and timetable will be established by mutual agreement.

Note 5. Explanatory Note: Review Application for Completeness (10 days, which includes 3 days to Acknowledge Receipt of Application) + Complete Review of All Screens (25 days) + Complete Supplemental Review (if needed, 20 days or Standard Process) + Send Executable Agreement (10 days) = 45 to 65 total aggregate days.

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Table 3 – Standard Process Time Frames (Note 1)

	Standard
Eligible Facilities	Any DG
Acknowledge Receipt of Application (Note 2)	(3 days)
Review Application for Completeness	10 days
Complete Review of All Screens	N/A
Complete Supplemental Review (if needed)	N/A
Complete Standard Process Initial Review	20 days
Send Impact Study Agreement	5 days
Complete Impact Study (if needed) (Note 3)	55 days
Complete Detailed Study (if needed) (Note 3)	30 days
Send Executable Agreement (Note 4)	15 days
Total Maximum Days (Note 5)	135 days (160 days if the application starts in the Expedited process)
Construction Schedule	By Mutual Agreement
Witness Test	See Section 3.4(n)

Table 3 – Standard Process Time Frames – Explanatory Notes

Note 1. All days listed apply to Company Business Days. In addition, in the event information has been requested of the Interconnecting Customer, all application Time Frames shall commence the next Business Day following receipt of information from the Interconnecting Customer. All Time Frames may be extended by mutual agreement. Any delays caused by Interconnecting Customer will interrupt the applicable Time Frame. A Force Majeure Event,

affecting either the Company or the Interconnecting Customer, shall suspend the applicable Time Frame(s). The provisions in Section 3.6.2 regarding Interconnection Application and Interconnecting Customer-requested Time Frame extensions shall also suspend the Time Frames. Pursuant to the above provisions, the Company shall withdraw an Interconnection Application as authorized by the Department. The Time Frames in Table 3 will be affected if ISO-NE determines that a system Impact Study is required. This will occur if the Interconnecting Customer's Facility is, or group of facilities are, equal to or greater than 5 MW and may occur if the Interconnecting Customer's Facility is greater than 1 MW.

Note 2. The 3 Business Days the Company has to acknowledge receipt of the Interconnecting Customer's Interconnection Application is included within the 10 Business Day Time Frame for the Company to review the Interconnection Application's completeness.

Note 3. Time Frames for any Impact or Detailed Study represent the time allowed to complete the final versions of the associated studies, not draft versions. Time Frames for any Impact or Detailed Study that is part of a Group Study shall be determined by mutual agreement.

Note 4. Company delivers an executable agreement form. Once the Interconnection Service Agreement is delivered by the Company, any further modification and timetable will be established by mutual agreement.

Note 5. Review Application for Completeness (10 days, includes 3 days to Acknowledge Receipt of Application) + Complete Standard Process Initial Review (20 days) + Send Impact Study Agreement (5 days) + Complete Impact Study (if needed, 55 days) + Complete Detailed Study (if needed, 30 days) + Send Executable Agreement (15 days) = 135 total aggregate days. The 160 day total maximum time frame applies to an Interconnecting Customer application that starts in the Expedited process.

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Table 4 – Standard Process Complex Projects Time Frames (Note 1)

	Standard Process Complex Projects
Eligible Facilities	Any DG (Note 2)
Acknowledge Receipt of Application (Note 3)	(3 days)
Review Application for Completeness	10 days
Complete Review of All Screens	N/A
Complete Supplemental Review (if needed)	N/A
Complete Standard Process Initial Review	20 days
Send Impact Study Agreement	5 days
Complete Impact Study (if needed)	(Note 4)
Complete Detailed Study (if needed)	(Note 5)
Send Executable Agreement(Note 6)	15 days
Total Maximum Days (Note 7)	200 or more days as determined by required System Modifications
Construction Schedule	By Mutual Agreement
Witness Test	See Section 3.4(n)

Table 4 – Standard Process Complex Projects Time Frames – Explanatory Notes

Note 1. All days listed apply to Company Business Days. In addition, in the event information has been requested of the Interconnecting Customer, all application Time Frames shall commence the next Business Day following receipt of information from the Interconnecting Customer. Any delays caused by Interconnecting Customer will interrupt the applicable Time Frame. A Force Majeure Event, affecting either the Company or the Interconnecting Customer, shall suspend the applicable Time Frame(s). The provisions in Section 3.6.2 regarding Interconnection Application and Interconnecting Customer-requested Time Frame extensions

shall also suspend the Time Frames. Pursuant to the above provisions, the Company shall withdraw an Interconnection Application as authorized by the Department. The Time Frames in Table 4 will be affected if ISO-NE determines that a system Impact Study is required. This will occur if the Interconnecting Customer's Facility is, or group of facilities are, equal to or greater than 5 MW and may occur if the Interconnecting Customer's Facility is greater than 1 MW.

Note 2. Interconnection Applications that are evaluated under the Standard Process Complex Projects Time Frames are Facility Interconnection Applications that will require extensive System Modifications.

Note 3. The 3 Business Days the Company has to acknowledge receipt of the Interconnecting Customer's Interconnection Application is included within the 10 Business Day Time Frame for the Company to review the Interconnection Application's completeness.

Note 4. Time Frames for the Impact Study represent the time allowed to complete the final version of the study, not draft versions. If the Interconnection Application will require any Sub-Station modifications, the Company shall have the following time periods in which to complete the Impact Study for each Interconnection Application: 75 Business Days in 2013; 75 Business Days in 2014; 70 Business Days in 2015; and 60 Business Days in 2016 and thereafter. The applicable Time Frame for the Impact Study is determined by the year the Impact Study commences and remains in effect for the duration of the Impact Study, regardless if the Impact Study concludes in a year with a shorter Time Frame. Time Frames for any Impact Study that is part of a Group Study shall be determined by mutual agreement.

Note 5. Time Frames for the Detailed Study represent the time allowed to complete the final version of the study, not draft versions. If the System Modifications identified in the Impact Study are likely to be $200,000 or more in EPS upgrades not including service upgrades for the Interconnecting Customer site, the Company shall have the following time periods in which to complete the Detailed Study for each Interconnection Application: 75 Business Days in 2013; 75 Business Days in 2014; 70 Business Days in 2015; and 60 Business Days in 2016 and thereafter. The applicable Time Frame for the Impact Study is determined by the year the Impact Study commences and remains in effect for the duration of the Impact Study, regardless if the Impact Study concludes in a year with a shorter Time Frame. If System Modifications are estimated to cost $1 million or more, the Time Frames for both the Impact and Detailed Studies will be by mutual agreement. The Company will track adherence to the mutually agreed upon Time Frame. In the event that the Company later determines that the System Modifications will cost less than $1 million, the Interconnection Application will revert to the Time Frames for Sub-Station Modifications or System Modifications costing $200,000 or more but less than $1 million as appropriate. The Company will inform the Interconnecting Customer within 20 days following the commencement of the Impact study whether the Interconnection Application shall be treated as a Complex Project under the Standard Process. If at any time during the Impact Study the Company determines that the System Modifications will cost $1 million or more, the Detailed

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Study Time Frame shall be by mutual agreement. Time Frames for any Detailed Study that is part of a Group Study shall be determined by mutual agreement.

Note 6. Company delivers an executable agreement form. Once the Interconnection Service Agreement is delivered by the Company, any further modification and timetable will be established by mutual agreement.

Note 7. Review Application for Completeness (10 days, includes 3 days to Acknowledge Receipt of Application) + Complete Standard Process Initial Review (20 days) + Send Impact Study Agreement (5 days) + Complete Impact Study (Note 4 – amount of time allowed decreases over time, currently 75 days in 2014 or by mutual agreement depending upon system modifications (see notes 4 and 5 above)) + Complete Detailed Study (Note 4 – amount of time allowed decreases over time, currently 75 days in 2014 or by mutual agreement depending upon system modifications (see notes 4 and 5 above)) + Send Executable Agreement (15 days). The minimum aggregate time frame for the Standard Process Complex Projects is 200 Business Days. The maximum aggregate time frame shall be determined by adding the Impact Study time frame determined by the Company within the first 20 Business Days of commencement of the study consistent with provision 3.4(f) of this Tariff, and the Detailed Study time frame determined by the Company for the Detailed Study upon delivery of the Detailed Study agreement, if applicable.

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Table 5 – Simplified Spot and Area Network Time Frames (Note 1)

	Simplified Spot and Area Network
Eligible Facilities	Listed Inverter
Acknowledge Receipt of Application (Note 2)	(3 days)
Review Application for Completeness	10 days
Complete Review of All Screens	30/90 days (Note 3)
Complete Supplemental Review (if needed)	N/A
Complete Standard Process Initial Review	N/A
Send Follow-on Studies Cost/Agreement	N/A
Complete Impact Study (if needed)	N/A
Complete Detailed Study (if needed)	N/A
Send Executable Agreement (Note 4)	Done (Comparable to Simplified for Radial). The agreement is part of the application.
Total Maximum Days (Note 5)	40 days (100 days if minimum load is unknown).
Construction Schedule	By Mutual Agreement
Witness Test	Within 10 days of receipt of the Certificate of Completion or by mutual agreement

Table 5 – Simplified Spot and Area Network Time Frames – Explanatory Notes

Note 1. All days listed apply to Company Business Days. In addition, in the event information has been requested of the Interconnecting Customer, all application Time Frames shall commence the next Business Day following receipt of information from the Interconnecting Customer. Any delays caused by Interconnecting Customer will interrupt the applicable Time Frame. A Force Majeure Event, affecting either the Company or the Interconnecting Customer, shall suspend the applicable Time Frame(s). The provisions in Section 3.6.2 regarding

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Interconnection Application and Interconnecting Customer-requested Time Frame extensions shall also suspend the Time Frames. Pursuant to the above provisions, the Company shall withdraw an Interconnection Application as authorized by the Department. The Time Frames in Table 5 will be affected if ISO-NE determines that a system Impact Study is required. This will occur if the Interconnecting Customer's Facility is, or group of facilities are, equal to or greater than 5 MW and may occur if the Interconnecting Customer's Facility is greater than 1 MW.

Note 2. The 3 Business Days the Company has to acknowledge receipt of the Interconnecting Customer's Interconnection Application is included within the 10 Business Day Time Frame for the Company to review the Interconnection Application's completeness.

Note 3.If the Interconnecting Customer minimum load is known, the Company shall have 30 Business Days to review an application. If the Interconnecting Customer minimum load is not known and an interval meter needs to be installed, the Company will install, at the Interconnecting Customer's expense, an interval meter to measure 3 months of continuous customer load capturing the annual minimum load. The maximum time the interval metering will be used to measure the minimum load is 9 months from the point of the time the analysis was commenced.

Note 4. Company delivers an executable agreement form. Once the Interconnection Service Agreement is delivered by the Company, any further modification and timetable will be established by mutual agreement.

Note 5. Review Application for Completeness (10 days, includes 3 days to Acknowledge Receipt of Application) + Complete Review of All Screens and Send Executable Agreement if minimum load is known (30 days) or + Complete Review of All Screens and Send Executable Agreement if minimum load is not known (90 days).

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Table 6 - Fee Schedules

These fee schedules apply to Interconnecting Customers only from the effective date of the tariff revisions and may not be retroactively applied to Interconnecting Customers with an Interconnection Application on file with the Company prior to the tariff revisions effective date.

	Simplified	Expedited	Standard (Note 1)	Simplified Spot and Area Network
	Listed Small Inverter	Listed DG	Any DG	Listed Inverter
Application Fee (covers Screens)	0 (Note 2)	$4.50/kW, minimum $300, maximum $7,500	$4.50/kW, minimum $300, maximum $7,500	≤3kW $100, >3kW $300
Supplemental Review (if applicable)	N/A	Up to 30 engineering hours at $150/hr ($4,500 maximum) (Note3)	N/A	N/A
Standard Interconnection Initial Review	N/A	N/A	Included in application fee (if applicable)	N/A
Impact and Detailed Study (if required)	N/A	N/A	Actual cost (Note 4)	N/A
System Modifications	N/A (Note 5)	Actual cost	Actual cost	N/A
O&M (Note 6)	N/A	TBD	TBD	N/A
Witness Test	0	Actual cost, up to $300 + travel time (Note 7)	Actual Cost	0 (Note 8)

Table 6- Fee Schedules Explanatory Notes

Note 1. Costs associated with Group Studies shall be allocated in accordance with Section 3.4.1.

Note 2. If the Company determines that the Facility does not qualify for the Simplified Process, it will let the Interconnecting Customer know what the appropriate fee is.

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Note 3. Supplemental Review is defined in Section 3.3.

Note 4. This is the actual cost only attributable to the Interconnecting Customer. Any costs not expended from the application fee previously collected will go toward the costs of these studies.

Note 5. Not applicable except in certain rare cases where a System Modification would be needed. If so, the modifications are the Interconnecting Customer's responsibility.

Note 6. O & M is defined as the Company's operations and maintenance carrying charges on the incremental costs associated with serving the Interconnecting Customer.

Note 7. The fee will be based on actual cost up to $300 plus driving time, unless Company representatives are required to do additional work due to extraordinary circumstances or due to problems on the Interconnecting Customer's side of the PCC (e.g., Company representative required to make two trips to the site), in which case Interconnecting Customer will cover the additional cost.

Note 8. Unless extraordinary circumstances.

4.0 INTERCONNECTION REQUIREMENTS

4.1 General Design Considerations

Interconnecting Customer shall design and construct the Facility in accordance with the applicable manufacturer's recommended maintenance schedule, in compliance with all aspects of the Company's Interconnection Tariff and Company-specific technical standards for interconnection of distributed generation. Interconnecting Customer agrees to cause its Facility to be constructed in accordance with applicable specifications that meet or exceed those provided under this Section of the Interconnection Tariff.

4.1.1 Transient Voltage Conditions

Because of unusual events in the Company's EPS, there will be transient voltage fluctuations, which will result in voltages exceeding the limits of the stated ranges. These transient voltage fluctuations, which generally last only a few milliseconds, arise due to EPS disturbances including, but not limited to, lightning strikes, clearing of faults, and other switching operations. The magnitude of transient voltage fluctuations varies with EPS configuration, grounding methods utilized, local short circuit availability, and other parameters, which vary from point-to-point and from time-to-time on the distribution EPS.

The fluctuations may result in voltages exceeding the limits of the stated ranges and occur because of EPS disturbance, clearing of faults and other switching operations. These unavoidable transients are generally of too short duration and insufficient magnitude to have any

adverse effects on general service applications. They may, however, cause malfunctions in equipment highly sensitive to voltage changes, and protective devices may operate to shut down such devices. The magnitude, duration and frequency of transient fluctuations will vary due to EPS configuration and/or circuit arrangement. In addition, disturbances of indeterminate magnitude and duration may occur on infrequent occasions due to short circuits, faults, and other unpredictable conditions.

Transient voltages should be evaluated in the design of the Facility.

4.1.2 Noise and Harmonics

The introduction of abnormal noise/harmonics can cause abnormal neutral current flow, and excessive heating of electrical equipment. Harmonics may also cause distortion in TV pictures, telephone interference, and malfunctions in digital equipment such as computers. The permissible level of harmonics is dependent upon the voltage level and short circuit ratio at a given location. The most current version of IEEE Standard 1547 provides these levels at the PCC. In requiring adherence to the most current version of IEEE Standard 1547, the Company is in no way making a recommendation regarding the level of harmonics that a given piece of equipment can tolerate nor is it making a recommendation as to the permissible level in the Interconnecting Customer's Facility.

4.1.3 Frequency

The interconnected electric power system in North America, which is maintained at 60 hertz ("Hz") frequency on its alternating current services, is subject to certain deviations. The usual maximum instantaneous deviation from the standard 60 Hz is ±2/10 cycle (±0.33%), except on infrequent occasions when the deviation may reach ±1/10 cycle (±0.17%). The usual normal deviation is approximately ±1/20 cycle (±0.083%). These conditions are subject to occur at any time of the day or night and should be considered in the design of the Facility. All are measured on a 60 Hz base.

4.1.4 Voltage Level

All electricity flow across the PCC shall be in the form of single-phase or three-phase 60 Hz alternating current at a voltage class determined by mutual agreement of the Parties.

4.1.5 Machine Reactive Capability

Facilities less than 1 megawatt ("MW") will not be required to provide reactive capability, except as may be provided by the retail rate schedule and Terms and Conditions for Distribution Services under which the Interconnecting Customer takes service.

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Facilities greater than or equal to 1 MW interconnected with the Company EPS shall be required to provide reactive capability to regulate and maintain EPS voltage at the PCC as per NEPOOL requirements. The Company and NEPOOL shall establish a scheduled range of voltages to be maintained by the Facility. The reactive capability requirements shall be reviewed as part of the Impact Study and Detailed Study.

4.2 Protection Requirements for New or Modified Facility Interconnections with the EPS

4.2.1 General Requirements

Any Facility desiring to interconnect with the Company EPS or modify an existing interconnection must meet minimum specifications, where applicable, as set forth in the most current version of the following documents and standards and requirements in this Section.

i) IEEE Standard 1547, "IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems."

ii) UL Standard 1741, "Inverters, Converters and Charge Controllers for Use in Independent Power Systems."

iii) Company-specific technical standards.

In the event that the IEEE or UL Standards referenced above conflict with the Company-specific technical specifications, the Company-specific technical specifications control and shall be followed. The specific differences shall be communicated to the Technical Standards Review Group.

The specifications and requirements listed herein are intended to mitigate possible adverse impacts caused by the Facility on the Company's equipment and personnel and on other Interconnecting Customers of the Company. They are not intended to address protection of the Facility itself or its internal load. It is the responsibility of the Facility to comply with the requirements of any Company-specific published technical specifications and all appropriate standards, codes, statutes and authorities to protect itself and its loads.

The Company shall not be responsible for the protection of the Facility. The Facility shall be responsible for protection of its system against possible damage resulting from parallel operation with the Company so long as the Company adheres to Good Utility Practice. If requested by the Interconnecting Customer, the Company will provide system protection information for the line terminal(s) directly related to the interconnection. This protection information contained herein is provided exclusively for use by the Interconnecting Customer to evaluate protection of its Facility during parallel operation.

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At its sole discretion, the Company may consider approving alternatives that satisfy the intent of the requirements contained in this Section.

4.2.2 Facility Classification

To determine the protection requirements for a given Facility, the following Groups have been established:

Group	Type of Interconnection
1	Facilities Qualified for Simplified Interconnection
2	All Facilities Not Qualified for Simplified Interconnection

4.2.3 Protection Requirements

All Facilities must meet performance requirements set forth in relevant sections of IEEE Standard 1547, in particular the attachments specific to Under Voltage Ride Through, Under Frequency Ride Through and VAr control. Additionally, all Facilities must meet the Company-specific technical requirements.

4.2.3.1 Group 1 Facilities

a) The inverter-based Facility shall be considered Listed if it meets requirements set forth in Section 3.1 “Simplified Process”.

b) External Disconnect Switch: For Listed inverters, the Company may require an external disconnect switch (or comparable device by mutual agreement of the Parties) at the PCC with the Company or at another mutually agreeable point that is accessible to Company personnel at all times and that can be opened for isolation if the switch is required. The switch shall be gang operated, have a visible break when open, be rated to interrupt the maximum generator output and be capable of being locked open, tagged and grounded on the Company side by Company personnel. The visible break requirement can be met by opening the enclosure to observe the contact separation. The Company shall have the right to open this disconnect switch in accordance with this Interconnection Tariff.

4.2.3.2 Group 2 Facilities

4.2.3.2.1 General Requirements

a) Non Export Power: If the Parties mutually agree that non-export functionality will be part of the interconnection protection equipment then it will include one of the following: (1) a reverse power relay with mutually agreed upon delay intervals, or (2) a minimum power function with mutually agreed upon delay

intervals, or (3) other mutually agreeable approaches, for example, a comparison of nameplate rating versus certified minimum Customer premises load.

b) The ISO-NE is responsible for assuring compliance with NPCC criteria. For the interconnection of some larger units, the NPCC criteria may additionally require:

NPCC Protective Relaying Requirements: The Company may require the Facility to be equipped with two independent, redundant relaying systems in accordance with NPCC criteria, where applicable, for the protection of the bulk power system if the interconnection is to the bulk power system or if it is determined that delayed clearing of faults within the Facility adversely affects the bulk power system.

NPCC Requirements: During system conditions where local area load exceeds system generation, NPCC Emergency Operation Criteria requires a program of phased automatic under frequency load shedding of up to 25% of area load to assist in arresting frequency decay and to minimize the possibility of system collapse. Depending on the point of connection of the Facility to the Company's EPS and in conformance with the NPCC Emergency Operating Criteria, the Facility may be required to remain connected to the EPS during the frequency decline to allow the objectives of the automatic load shedding program to be achieved, or to otherwise provide compensatory load reduction, equivalent to the Facility's generation lost to the system, if the Interconnecting Customer elects to disconnect the Facility at a higher under-frequency set point.

c) Disconnect Switch: The Facility shall provide a disconnect switch (or comparable device mutually agreed upon by the Parties) at the point of Facility interconnection that can be opened for isolation. The switch shall be in a location easily accessible to Company personnel at all times. The switch shall be gang operated, have a visible break when open, be rated to interrupt the maximum generator output and be capable of being locked open, tagged and grounded on the Company side by Company personnel. The visible break requirement can be met by opening the enclosure to observe the contact separation. The Company shall exercise such right in accordance with Section 7.0 of this Interconnection Tariff.

d) Transfer Tripping: A direct transfer tripping system, if one is required by either the Interconnecting Customer or by the Company, shall use equipment generally accepted for use by the Company and shall, at the option of the Company, use dual channels if the Company-specific technical standards require.

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4.2.3.2.2 Requirements for Induction and Synchronous Generator Facilities

a) Interconnection Interrupting Device: An interconnection Interrupting Device such as a circuit breaker shall be installed to isolate the Facility from the Company's EPS. If there is more than one Interrupting Device, this requirement applies to each one individually. The Interconnection Interrupting Device must be capable of interrupting the current produced when the Facility is connected out of phase with the Company's EPS, consistent with the most current version of Section 4.1.8.3 of IEEE Standard 1547 which states, "the interconnection system paralleling-device shall be capable of withstanding 220% of the interconnection system rated voltage."

b) Synchronizing Devices: The Interconnecting Customer shall designate one or more Synchronizing Devices such as motorized breakers, contactor/breaker combinations, or a fused contactor (if mutually agreeable) to be used to connect the Facility's generator to the Company's EPS. This Synchronizing Device could be a device other than the interconnection Interrupting Device. The Synchronizing Device must be capable of interrupting the current produced when the Facility is connected out of phase with the Company's EPS, consistent with the most current version of Section 4.1.8.3 of IEEE Standard 1547-2003 which states, "the interconnection system paralleling-device shall be capable of withstanding 220% of the interconnection system rated voltage."

c) Transformers: The Company reserves the right to specify the winding connections for the transformer between the Company's voltage and the Facility's voltage ("Step-Up Transformer") as well as whether it is to be grounded or ungrounded at the Company's voltage. In the event that the transformer winding connection is grounded-wye/grounded-wye the Company reserves the right to specify whether the generator stator is to be grounded or not grounded. The Interconnecting Customer shall be responsible for procuring equipment with a level of insulation and fault-withstand capability compatible with the specified grounding method.

d) Voltage relays: Voltage relays shall be frequency compensated to provide a uniform response in the range of 40 to 70 Hz.

e) Protective Relaying Redundancy: For induction generators greater than 1/15 of on-site minimum verifiable load that is not equipped with on-site capacitors or that is greater than 200 kW, and for all synchronous generators, protective relays utilized by the Facility shall be sufficiently redundant and functionally separate so as to provide adequate protection, consistent with Company practices and standards, upon the failure of any one component.

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f) Protective Relay Hard-Wire Requirement: Unless authorized otherwise by the Company, protective relays must be hardwired to the device they are tripping. Further, interposing computer or programmable logic controller or the like is not permitted in the trip chain between the relay and the device being tripped.

g) Protective Relay Supply: Where protective relays are required in this Section, their control circuits shall be DC powered from a battery/charger system or a UPS. Solid-state relays shall be self-powered, or DC powered from a battery/charger system or a UPS. If the Facility uses a Company-acceptable non-latching interconnection contactor, AC powered relaying shall be allowed provided the relay and its method of application are fail safe, meaning that if the relay fails or if the voltage and/or frequency of its AC power source deviate from the relay's design requirements for power, the relay or a separate fail-safe power monitoring relay acceptable to the Company will immediately trip the generator by opening the coil circuit of the interconnection contactor.

h) Current Transformers ("CT"): CT ratios and accuracy classes shall be chosen such that secondary current is less than 100 amperes and transformation errors are consistent with Company practices. CTs used for revenue class metering must have a secondary current of 20 amperes or less.

i) Voltage Transformers ("VT") and Connections: The Facility shall be equipped with a direct voltage connection or a VT, connected to the Company side of the Interrupting Device. The voltage from this VT shall be used in an interlock scheme, if required by the Company. For three-phase applications, a VT for each phase is required. All three phases must be sensed either by three individual relays or by one relay that contains three elements. If the voltage on any of the three phases is outside the bounds specified by the Company the unit shall be tripped. If the Facility's Step-Up Transformer is ungrounded at the Company voltage, this VT shall be a single three-phase device or three single-phase devices connected from each phase to ground on the Company's side of the Facility's Step-Up Transformer, rated for phase-to-phase voltage and provided with two secondary windings. One winding shall be connected in open delta, have a loading resistor to prevent ferroresonance, and be used for the relay specified in these requirements.

4.2.3.2.3 Additional Requirements for Induction Generator Facilities

a) Self-Excitation: A Facility using induction generators connected in the vicinity of capacitance sufficient to self-excite the generator(s) shall meet the requirements for synchronous machines. The capacitors that enable self-excitation may actually be external to the Facility. The Company will not restrict its existing or

future application of capacitors on its lines nor restrict their use by other Interconnecting Customers of the Company to accommodate a Facility with induction machines. If self-excitation becomes possible due to the installation of or presence of capacitance, the protection requirements of the Facility may need to be reviewed and revised, if applicable.

The Facility may be required to install capacitors to limit the adverse effects of drawing reactive power from the EPS for excitation of the generator. Capacitors for supply of reactive power at or near the induction generator with a kilovolts-ampere reactive ("kVAr") rating greater than 30% of the generator's kW rating may cause the generator to become self-excited. (If self-excitation can occur, the Facility shall be required to provide protection as specified in synchronous machines requirements.)

4.2.3.2.4 Additional Requirements for Synchronous Generator Facilities

a) Ungrounded Transformers: If the Facility's Step-Up Transformer connection is ungrounded, the Facility shall be equipped with a zero sequence over-voltage relay fed from the open delta of the three-phase VT specified in the Voltage Transformers and Connections Section 4.2.3.2.2.i.

b) High-Speed Protection: The Facility may be required to use high-speed protection if time-delayed protection would result in degradation in the existing sensitivity or speed of the protection systems on the Company's EPS.

c) Breaker Failure Protection: The Facility may be required to be equipped to provide local breaker failure protection which may include direct transfer tripping to the Company's line terminal(s) in order to detect and clear faults within the Facility that cannot be detected by the Company's back-up protection.

d) Communications Channels: The Interconnecting Customer is responsible for procuring any communications channels necessary between the Facility and the Company's stations, and for providing protection from transients and over-voltages at all ends of these communication channels. The Interconnecting Customer will also bear the ongoing cost to lease these communication channels. Examples include, but are not limited to, connection to a line using high-speed protection, transfer tripping, generators located in areas with low-fault currents, or back up for generator breaker failure.

4.2.4 Protection System Testing and Maintenance

The Company shall have the right to witness the commissioning testing as defined in the most current version of IEEE Standard 1547 and the Company-specific technical requirements at the

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completion of construction and to receive a copy of all test data. The Facility shall be equipped with whatever equipment is required to perform this test.

Testing typically includes, but is not limited to:

- CT and VT circuit polarity, ratio, insulation, excitation, continuity and burden 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.

Prior to final approval by the Company or anytime thereafter, the Company reserves the right to test the generator relaying and control related to the protection of the Company's EPS.

The Interconnecting Customer has the full responsibility for the proper periodic maintenance of its generating equipment and its associated control, protective equipment and interrupting devices.

The Interconnecting Customer is responsible for the periodic maintenance of those relays, interrupting devices, control schemes, and batteries that involve the protection of the Company's EPS. A periodic maintenance program, mutually agreeable to both the Company and to the Interconnecting Customer is to be established in each case. The Company shall have the right to monitor the periodic maintenance performed.

For relays installed in accordance with the NPCC Criteria for the Protection of the Bulk Power System, maintenance intervals shall be in accordance with such criteria. The results of these tests shall be summarized by the Interconnecting Customer and reported in writing to the Company.

The Company reserves the right to install special test equipment as may be required to monitor the operation of the Facility and its control or for evaluating the quality of power produced by the Facility at a mutually agreed upon location. The cost of this testing will be borne by the Company unless there is shown to be a problem associated with the Facility or if the test was performed at the request of the Interconnecting Customer.

Each routine check shall include both a calibration check and an actual trip of the circuit breaker or contactor from the device being tested. Visually setting a calibration dial, index or tap is not considered an adequate calibration check.

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Inverters with field adjustable settings for their internal protective elements shall be periodically tested if those internal elements are being used by the Facility to satisfy the requirements of this Section.

4.2.5 Protection Requirements – Momentary Paralleling of Standby Generators

Protective relays to isolate the Facility for faults in the Company EPS are not required if the paralleling operation is automatic and takes place for less than one-half of a second. An Interrupting Device with a half-second timer (30 cycles) is required as a fail-safe mechanism.

Parallel operation of the Facility with the Company EPS shall be prevented when the Company's line is dead or out of phase with the Facility.

The control scheme for automatic paralleling must be submitted by the Interconnecting Customer for review and acceptance by the Company prior to the Facility being allowed to interconnect with the Company EPS.

4.2.6 Protection System Changes

The Interconnecting Customer must provide the Company with reasonable advance notice of any proposed changes to be made to the protective relay system, relay settings, operating procedures or equipment that affect the interconnection. The Company will determine if such proposed changes require additional review and/or approval of the interconnection per the requirements of this Section.

In the future, should the Company implement changes to the EPS to which the Facility is interconnected, the Interconnecting Customer will be responsible at its own expense for identifying and incorporating any necessary changes to its protection equipment. These changes to the Facility's protection equipment are subject to review and approval by the Company.

5.0 RESPONSIBILITY FOR COSTS OF INTERCONNECTING A FACILITY

5.1 Review and Study Costs

The Interconnecting Customer shall be responsible for the reasonably incurred costs of the review by the Company and any interconnection studies conducted as defined by Table 6 ("Fee Schedules") of Section 3.0 of this Interconnection Tariff solely to determine the requirements of interconnecting a Facility with the Company EPS.

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5.2 Interconnection Equipment Costs

The Interconnecting Customer shall be responsible for all costs associated with the installation and construction of the Facility and associated interconnection equipment on the Interconnecting Customer's side of the PCC.

5.3 System Modification Costs

The Interconnecting Customer shall also be responsible for all costs reasonably incurred by Company attributable to the proposed interconnection project in designing, constructing, operating and maintaining the System Modifications.[4] At the time that the Company provides an Interconnecting Customer with any Impact Study or Detailed Study, the Company shall also provide, along with that Study, a statement of the Company's policies on collection of tax gross-ups. To the extent that Company Terms and Conditions and/or tariffs allow, the Company will refund the appropriate portion of System Modification costs to the Interconnecting Customer as required by the applicable tariff. In the event that a new Facility interconnects to the circuit that was the subject of the Group Study within 5 years, that Interconnecting Customer shall be assessed System Modification costs consistent with the Company's line extension policy; however, new Interconnecting Customers in the Simplified Process shall be exempt from this required cost allocation. The 5 year period shall be calculated from the date of execution of the Interconnection Service Agreement of the first Interconnecting Customer within the Group Study.

5.4 Separation of Costs

Should the Company combine the installation of System Modifications with additions to the Company's EPS to serve other Customers or Interconnecting Customers, the Company shall not include the costs of such separate or incremental facilities in the amounts billed to the Interconnecting Customer for the System Modifications required pursuant to this Interconnection Tariff. The Interconnecting Customer shall only pay for that portion of the interconnection costs resulting solely from the System Modifications required to allow for safe, reliable parallel operation of the Facility with the Company EPS.

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[4] The Interconnecting Customer will be directly responsible for costs not incurred by the Company that are otherwise necessary to interconnect the Interconnecting Customer's Facility, including but not limited to: poles set by other companies, telecommunications, costs incurred by municipalities, pole mounted equipment owned by other entities, etc.

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5.5 Normal Payment Procedure

All application, study fees and System Modification costs (except as noted below) are due in full prior to the execution of the work as outlined in this Interconnection Tariff. If the anticipated costs exceed $25,000, the Interconnecting Customer is eligible for a payment plan, including a payment and construction schedule with milestones for both parties. At the request of the Interconnecting Customer, the Company will break the costs into phases in which the costs will be collected prior to Company expenditures for each phase of the study and/or construction including ordering equipment. The payment plan will be attached as an exhibit to the Interconnection Service Agreement or relevant study agreements.

5.6 Security and Creditworthiness

In order for the Company to agree to any payment plan where some work may be performed in advance of payment, the Company may require the Interconnecting Customer to provide evidence of creditworthiness. In the event that Interconnecting Customer cannot provide such evidence to the satisfaction of the Company, then the Company may require the Interconnecting Customer to provide sufficient security in order to take advantage of a payment plan. Interconnecting Customer acknowledges that it will be responsible for the actual costs of the System Modifications described in the attached exhibit to the Interconnection Service Agreement, whether greater or lesser than the amount of the payment security provided under this section.

6.0 OPERATING REQUIREMENTS

6.1 General Operating Requirements

Interconnecting Customer shall operate and maintain the Facility in accordance with the applicable manufacturer's recommended maintenance schedule, in compliance with all aspects of the Company's Interconnection Tariff. The Interconnecting Customer will continue to comply with all applicable laws and requirements after interconnection has occurred. In the event the Company has reason to believe that the Interconnecting Customer's installation may be the source of problems on the Company EPS, the Company has the right to install monitoring equipment at a mutually agreed upon location to determine the source of the problems. If the Facility is determined to be the source of the problems, the Company may require disconnection as outlined in Section 7.0 of this Interconnection Tariff. The cost of this testing will be borne by the Company unless the Company demonstrates that the problem or problems are caused by the Facility or if the test was performed at the request of the Interconnecting Customer.

6.2 No Adverse Effects; Non-interference

Company shall notify Interconnecting Customer if there is evidence that the operation of the Facility could cause disruption or deterioration of service to other Customers served from the

same Company EPS or if operation of the Facility could cause damage to Company EPS or Affected Systems. The deterioration of service could be, but is not limited to, harmonic injection in excess of what is stated in the most current version of IEEE Standard 1547, as well as voltage fluctuations caused by large step changes in loading at the Facility. Each Party will notify the other of any emergency or hazardous condition or occurrence with its equipment or facilities which could affect safe operation of the other Party's equipment or facilities. Each Party shall use reasonable efforts to provide the other Party with advance notice of such conditions.

The Company will operate the EPS in such a manner so as to not unreasonably interfere with the operation of the Facility. The Interconnecting Customer will protect itself from normal disturbances propagating through the Company EPS, and such normal disturbances shall not constitute unreasonable interference unless the Company has deviated from Good Utility Practice. Examples of such disturbances could be, but are not limited to, single-phasing events, voltage sags from remote faults on the Company EPS, and outages on the Company EPS. If the Interconnecting Customer demonstrates that the Company EPS is adversely affecting the operation of the Facility and if the adverse effect is a result of a Company deviation from Good Utility Practice, the Company shall take appropriate action to eliminate the adverse effect.

6.3 Safe Operations and Maintenance

Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for the facility or facilities that it now or hereafter may own unless otherwise specified in this Interconnection Tariff. Each Party shall be responsible for the maintenance, repair and condition of its respective lines and appurtenances on their respective side of the PCC. The Company and the Interconnecting Customer shall each provide equipment on its respective side of the PCC that adequately protects the Company's EPS, personnel, and other persons from damage and injury.

6.4 Access

The Company shall have access to the disconnect switch of the Facility at all times.

6.4.1 Company and Interconnecting Customer Representatives

Each Party shall provide and update as necessary the telephone number that can be used at all times to allow either Party to report an emergency.

6.4.2 Company Right to Access Company-Owned Facilities and Equipment

If necessary for the purposes of this Interconnection Tariff and in the manner it describes, the Interconnecting Customer shall allow the Company access to the Company's equipment and the Company's facilities located on the Interconnecting Customer's or Customer's premises. To the extent that the Interconnecting Customer does not own all or any part of the property on which the Company is required to locate its equipment or facilities to serve the Interconnecting

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Customer under this Interconnection Tariff, the Interconnecting Customer shall secure and provide in favor of the Company the necessary rights to obtain access to such equipment or facilities, including easements if the circumstances so require. In addition to any rights and easements required by the Company in accordance with the provisions above, the Interconnecting Customer shall obtain an executed Landowner Consent Agreement (Exhibit I) from the Landowner, unless the Company, in its sole discretion, waives this requirement.

6.4.3 Right to Review Information

The Company shall have the right to review and obtain copies of Interconnecting Customer's operations and maintenance records, logs, or other information such as, unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Interconnecting Customer's Facility or its interconnection with the Company EPS. This information will be treated as customer-confidential and only used for the purposes of meeting the requirements of Section 4.2.4.

7.0 DISCONNECTION

7.1 Temporary Disconnection

a) Emergency Conditions. Company shall have the right to immediately and temporarily disconnect the Facility without prior notification in cases where, in the reasonable judgment of Company, continuance of such service to Interconnecting Customer is imminently likely to (i) endanger persons or damage property or (ii) cause a material adverse effect on the integrity or security of, or damage to, Company EPS or to the electric systems of others to which the Company EPS is directly connected. Company shall notify Interconnecting Customer promptly of the emergency condition. Interconnecting Customer shall notify Company promptly when it becomes aware of an emergency condition that affects the Facility that may reasonably be expected to affect the Company EPS. To the extent information is known, the notification shall describe the emergency condition, the extent of the damage or deficiency, or the expected effect on the operation of both Parties' facilities and operations, its anticipated duration and the necessary corrective action.

b) Routine Maintenance, Construction and Repair. Company shall have the right to disconnect the Facility from the Company EPS when necessary for routine maintenance, construction and repairs on the Company EPS. The Company shall provide the Interconnecting Customer with a minimum of seven calendar days planned outage notification consistent with the Company's planned outage notification protocols. If the Interconnecting Customer requests disconnection by the Company at the PCC, the Interconnecting Customer will provide a minimum

of seven days notice to the Company. Any additional notification requirements will be specified by mutual agreement in the Interconnection Service Agreement. Company shall make an effort to schedule such curtailment or temporary disconnection with Interconnecting Customer.

c) Forced Outages. During any forced outage, Company shall have the right to suspend interconnection service to effect immediate repairs on the Company EPS; provided, however, Company shall use reasonable efforts to provide the Interconnecting Customer with prior notice. Where circumstances do not permit such prior notice to Interconnecting Customer, Company may interrupt Interconnection Service and disconnect the Facility from the Company EPS without such notice.

d) Non-Emergency Adverse Operating Effects. The Company may disconnect the Facility if the Facility is having an adverse operating effect on the Company EPS or other Customers that is not an emergency, and the Interconnecting Customer fails to correct such adverse operating effect after written notice has been provided and a maximum of 45 days to correct such adverse operating effect has elapsed.

e) Modification of the Facility. Company shall notify Interconnecting Customer if there is evidence of a material modification to the Facility and shall have the right to immediately suspend interconnection service in cases where such material modification has been implemented without prior written authorization from the Company.

f) Re-connection. Any curtailment, reduction or disconnection shall continue only for so long as reasonably necessary. The Interconnecting Customer and the Company shall cooperate with each other to restore the Facility and the Company EPS, respectively, to their normal operating state as soon as reasonably practicable following the cessation or remedy of the event that led to the temporary disconnection.

7.2 Permanent Disconnection

The Interconnecting Customer has the right to permanently disconnect at any time with 30 days written notice to the Company.

The Company may permanently disconnect the Facility upon termination of the Interconnection Service Agreement in accordance with the terms thereof.

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8.0 METERING, MONITORING, AND COMMUNICATION

This Section sets forth the rules, procedures and requirements for metering, monitoring and communication between the Facility and the Company EPS where the Facility exports power or is net metered or is otherwise subject to NEPOOL requirements. Interconnecting Customer will be responsible for reasonable and necessary costs incurred by Company for the purchase, installation, operation, maintenance, testing, repair and replacement of metering and data acquisition equipment specified in the Attachments to the Interconnection Service Agreement. The Interconnecting Customer's metering (and data acquisition, as required) equipment shall conform to rules and applicable operating requirements.

8.1 Metering, Related Equipment and Billing Options

The Company shall furnish, read and maintain all revenue metering equipment. The Interconnecting Customer shall furnish and maintain all meter mounting equipment such as or including meter sockets, test switches, conduits, and enclosures. Except as provided below, the Company shall own the meter and the Interconnecting Customer shall pay to the Company a monthly charge to cover taxes, meter maintenance, incremental reading and billing costs, the allowable return on the invoice cost of the meter and the depreciation of the meter. These charges are set forth in the applicable Company tariff(s), as amended from time to time. If the Facility is a Qualifying Facility or On-Site Generating Facility the Interconnecting Customer may elect to own the meter, in which case, the Interconnecting Customer shall pay to the Company a monthly charge to cover meter maintenance and incremental reading and billing costs. Metering requirements and associated charges for Qualifying Facilities and On-Site Generating Facilities are set forth in the applicable Company tariff(s), as amended from time to time. If the Interconnecting Customer elects to install its own meter under the terms of 220 CMR §8.0, the Interconnecting Customer shall be responsible for purchasing and installing software, hardware and/or other technology that may be required by the Company to read billing meters.

The Interconnecting Customer shall provide suitable space within the Facility for installation of the metering, and communication equipment at no cost to the Company.

All metering equipment installed pursuant to this Interconnection Tariff and associated with the Facility shall be routinely tested by the Company at Interconnecting Customer's expense, in accordance with applicable Company and/or ISO-NE criteria, rules and standards. If, at any time, any metering equipment is found to be inaccurate by a margin greater than that allowed under applicable criteria, rules and standards, the Company shall cause such metering equipment to be made accurate or replaced. The cost to repair or replace the meter shall be borne by the Company, if the Company owns the meter, or by the Interconnecting Customer if the Interconnecting Customer owns the meter. Meter readings for the period of inaccuracy shall be adjusted so far as the same can be reasonably ascertained; provided, however, no adjustment

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prior to the beginning of the preceding month shall be made except by agreement of the Parties. Each Party shall comply with any reasonable request of the other concerning the sealing of meters, the presence of a representative of the other Party when the seals are broken and the tests are made, and other matters affecting the accuracy of the measurement of electricity delivered from the Facility. If either Party believes that there has been a meter failure or stoppage, it shall immediately notify the other.

If the Metering Point and the Point of Receipt or Point of Delivery are not at the same location, the metering equipment shall record delivery of electricity in a manner that accounts for losses occurring between the Metering Point and the Point of Receipt or Point of Delivery. Losses between the Metering Point and Point of Receipt will be reflected pursuant to applicable Company, NEPOOL or ISO-NE criteria, rules or standards.

The type of metering equipment to be installed at a Facility is dependent on the size of the Facility and how and if the Facility plans to export power or net meter. For those that will export power or net meter, the available equipment options and associated requirements are:

- For Facilities 60 kW or less, unless the Interconnecting Customer elects another form of metering, the Facilities will be equipped with net metering in which metering equivalent to or replicating that of a standard distribution class meter is installed and is enabled to run in a normal direction during periods of net consumption and to run backwards during periods of net generator output. All metering equipment included in this type of installation, including self-contained meters and instrument transformers and meters, shall meet ANSI C12.1 Metering Accuracy Standards and ANSI C57.13 accuracy requirements for instrument transformers.

- For Facilities larger than 60 kW, the Facilities will be equipped with bi-directional, interval meter with remote access – in which a distribution class meter with multiple registers is installed. One set of registers will record energy flows from the Company to the Facility during periods when the Facility is a net consumer of energy (the other register will record no flow during these periods) and a second set of registers will record energy flows from the Facility to the Company during periods when the Facility is a net producer of energy (the other register will record no flow during these periods). Each set of registers will record total flows as well as flows during hourly intervals. In addition, the meters will be equipped with remote access capability that may include communication to the extent required by applicable NEPOOL standards. All metering equipment included in this type of installation shall meet the requirements contained in NEPOOL Operating Procedure No. 18, “Metering and Telemetering Criteria” and the Company’s “Policy and Practices for Metering and Telemetering Requirements for New or Modified Interconnections.” Copies of both publications are available from the Company upon request. The Interconnecting Customer shall be responsible for providing all necessary leased telephone lines (or other Company approved communication means)

and any necessary protection for leased lines and shall furthermore be responsible for all communication required by ISO-NE, or by ISO-NE's designated satellite. The Interconnecting Customer shall maintain all communication and transducer equipment at the Facility in accordance with ISO-NE criteria, rules and standards. The Company will purchase, own and maintain all communication equipment located on the Interconnecting Customer's Facilities, if the Interconnecting Customer desires, at the Interconnecting Customer's expense. The Interconnecting Customer shall provide, install and own Company-approved or Company-specified test switches in the transducer circuits.

- In addition, Facilities, or group of facilities, which are equal to 5 MW or greater are required by NEPOOL Operating Procedures No. 14 and No. 18 to provide communication equipment and to supply accurate and reliable information to system operators regarding metered values for MW, MVAR, volt, amp, frequency, breaker status and all other information deemed necessary by ISO-NE and the NEPOOL Satellite (REMVEC).

8.2 Additional Monitoring and Communication requirements

As the amount of distributed generation on the Company EPS grows significantly, additional monitoring and communication may be required by the Department pursuant to a future proceeding.

9.0 DISPUTE RESOLUTION PROCESS

The Dispute Resolution Process is a multi-stage process described below, beginning with negotiation, then mediation, followed by non-binding arbitration and then adjudication. All days in this Section are calendar days.

9.1 Good Faith Negotiation

a) One party submits a request in writing to the other party for initiation of Step 9.1 of the Dispute Resolution Process. The Parties will elevate the dispute to a Vice President or senior management with sufficient authority to make a decision.

b) If after 8 days the dispute is not resolved, one party to the dispute may request dispute resolution assistance by submitting a written request to the Department appointed DG ombudsperson ("Ombudsperson"), with a copy of such request to the other party, in accordance with the processes outlined in Department orders D.P.U. 11-75-E and D.P.U. 11-75-F.

c) If after 8 days from the Parties receipt in writing of the Ombudperson's proposed resolution the dispute is still not resolved, one or both Parties may initiate Section 9.2.

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9.2 Mediation/Non-binding Arbitration

a) If the differences are not resolved in Step 9.1, the Department will provide a list of qualified neutrals and manage the selection of individual neutrals for the case. The Department will use a list of pre-qualified neutrals maintained at the Department and, the Parties will select a mutually agreeable mediator pursuant to a reverse-strike-out process[5] or another mutually-agreeable method. If either party requests a technical expert, both a mediator and a technical expert will be selected, and the technical expert will be selected using the same strike out process or another mutually-agreeable method as that used for selection of the mediator.

b) Parties will complete the neutral selection process with the Department within seven days. This timetable will only be possible if the Department has, during the initial 14 days, identified mediators and technical experts who have the time available to assist the Parties in a timely manner.

c) The Department will arrange for the selected mediator to contact Parties.

d) The Parties will contract with neutrals for services, splitting the fees 50/50.

e) The mediator begins by discussing the case with the disputing Parties to assess the scope of issues and understand the Parties' positions and interests. The mediator and Parties will establish a schedule for completing the mediation process within 30 days. Ten days after the 30-day time period begins, the Department will issue a public notice of the proceeding and will schedule a pre-hearing conference for Section 9.3. The mediator will assist the Parties in developing a scope of work for the technical expert if one is needed. The mediator will also assist the Parties in estimating the Dispute Resolution Process costs and addressing any concerns about those costs.

f) Mediation meeting or meetings are held.

g) If the Parties reach agreement, the Dispute Resolution Process ends here.

h) If the Parties do not reach a mediated agreement, the neutral(s) will issue a brief recommended solution or decision.

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[5] A "reverse strike out process" involves each party eliminating the least desirable mediator until one is left standing.

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i) If the Parties accept the neutral's recommendation, the dispute resolution process ends here.

j) If one or both Parties do not accept the neutral recommendation and there is still no agreement, the dispute proceeds to Step 9.3.

9.3 Department Adjudicatory Hearing

The goal of this Step is an adjudicatory hearing at the Department, with witnesses, evidence, etc. that results in a binding precedential decision, appealable to the Massachusetts Supreme Judicial Court.

a) In the event a party does not accept the recommendation in Step 9.2, it may request, in writing, a Department adjudication.

b) The Department holds a pre-hearing conference for which notice has been provided in accordance with Section 9.2(e). The Parties, to the extent desirable and feasible, exchange information and establish an expedited schedule during the pre-hearing conference.

c) The Department and the Parties engage in pre-hearing discovery, as needed in the specific case, building on the information developed in Step 9.2, including the mediator's recommendation.

d) The Department conducts a hearing.

e) The Parties file briefs, if one or both desire to do so or the Department requests they do so. The Parties and the Department will complete Step 9.3(b) through 9.3(e) in 90 days. The Department issues its order within 20 days. If it is unable to do so, it will notify the Parties and provide a revised decision date.

f) The Department will appoint a hearing officer or other Department staff person familiar with the DG interconnection process in Massachusetts to oversee the selection of private neutrals and otherwise serve as a resource for DG cases.

Disputes subject to the Dispute Resolution Process on these issues are not meant to be considered as Interconnecting Customer complaints as part of the Companies' service quality plans in effect at the time. This does not preclude the Interconnecting Customer from filing Interconnecting Customer complaints for which they are otherwise eligible.

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10.0 CONFIDENTIALITY STATEMENT

Information including identifying information and specific Facility information may be shared with the Department. A list of all executed DG Interconnection Service Agreements will be submitted to the Department annually. Interconnecting Customers may elect to petition the Department to maintain confidentiality with their information; however, the Department is under no obligation to grant this confidentiality.

If an Interconnecting Customer's project qualifies for a Group Study, the Company is authorized to share Interconnecting Customer's contact information and project details with other Interconnecting Customers also involved in the Group Study.

In an ongoing effort to improve the interconnection process for Interconnecting Customer-owned Facilities, the information provided by Interconnecting Customers and the results of the application process will be aggregated with the information of other applicants, i.e. Interconnecting Customers, and periodically reviewed by a DG working group authorized by the Department consisting of industry participants. The aggregation process will not reveal specific details for any one Interconnecting Customer. In addition to this process, Interconnecting Customers may choose to allow non-identifying information specific to their applications to be shared with the DG working group by answering "Yes" to the Confidentiality Statement question on the first page of the application form.

11.0 INSURANCE REQUIREMENTS

11.1 General Liability

a) In connection with Interconnecting Customer's performance of its duties and obligations under the Interconnection Service Agreement, Interconnecting Customer shall maintain, during the term of the Agreement, general liability insurance with a combined single limit of not less than:

i) Five million dollars ($5,000,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than five (5) MW;

ii) Two million dollars ($2,000,000) for each occurrence and five million dollars ($5,000,000) in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than one (1) MW and less than or equal to five (5) MW;

iii) One million dollars ($1,000,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than one hundred (100) kW and less than or equal to one (1) MW;

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iv) Five hundred thousand dollars ($500,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than ten (10) kW and less than or equal to one hundred (100) kW, except as provided below in subsection 11.1(b).

b) Pursuant to 220 C.M.R. § 18.03(2), no insurance is required for Interconnecting Customers with facilities eligible for Class 1 Net Metering (facilities less than or equal to sixty (60) kW). However, the Company recommends that the Interconnecting Customer obtain adequate insurance to cover potential liabilities.

c) Any combination of General Liability and Umbrella/Excess Liability policy limits can be used to satisfy the limit requirements stated above.

d) The general liability insurance required to be purchased in this Section 11 may be purchased for the direct benefit of the Company and shall respond to third party claims asserted against the Company (hereinafter known as "Owners Protective Liability"). Should this option be chosen, the requirement of Section 11.2(a) will not apply but the Owners Protective Liability policy will be purchased for the direct benefit of the Company and the Company will be designated as the primary and "Named Insured" under the policy.

e) The insurance hereunder is intended to provide coverage for the Company solely with respect to claims made by third parties against the Company.

f) In the event the Commonwealth of Massachusetts, or any other governmental subdivision thereof subject to the claims limits of the Massachusetts Tort Claims Act, G.L. c. 258 (hereinafter referred to as the "Governmental Entity") is the Interconnecting Customer, any insurance maintained by the Governmental Entity shall contain an endorsement that strictly prohibits the applicable insurance company from interposing the claims limits of G.L. c. 258 as a defense in either the adjustment of any claim, or in the defense of any lawsuit directly asserted against the insurer by the Company. Nothing herein is intended to constitute a waiver or indication of an intent to waive the protections of G.L. c. 258 by the Governmental Entity.

g) Notwithstanding the requirements of section 11.1(a) through (f), insurance for certain Governmental Entity facilities may be provided as set forth in section 11.1(g)(i) and (ii) below. Nothing herein changes the provision in subsection 11.1(a)(iv) that exempts Class I Net Metering facilities (less than or equal to 60 kW) from the requirement to obtain insurance. In addition,

nothing shall prevent the Governmental Entity from obtaining insurance consistent with the provisions of subsection 11.1(a) through (f), if it is able and chooses to do so.

i) For solar photovoltaic (PV) facilities with a Gross Nameplate Rating in excess of 60 kW up to 500 kW, the Governmental Entity is not required to obtain liability insurance. Any liability costs borne by the Company associated with a third-party claim for damages in excess of the claims limit of the Massachusetts Tort Claims Act, M.G.L. c. 258, and market-based premium-related costs, if any, borne by the Company associated with insurance for such third-party claims shall be recovered annually on a reconciling basis in Company rates in a manner that shall be reviewed and approved by the Department.

ii) For (a) PV facilities with a Gross Nameplate Rating in excess of 500 kW up to 5 MW, (b) wind facilities with a Gross Nameplate Rating in excess of 60 kW up to 5 MW, and (c) highly efficient combined heat and power facilities with a Gross Nameplate Rating of in excess of 60 kW up to 5 MW, the Governmental Entity is not required to obtain liability insurance, subject to the requirements of the following paragraph.

The Company shall either self-insure for any risk associated with possible third-party claims for damages in excess of the Massachusetts Tort Claims Act limit, or obtain liability insurance for such third-party claims, and the Company is authorized to charge and collect from the Governmental Entity its pro-rata allocable share of the cost of so doing, plus all reasonable administrative costs. The coverage and cost may vary with the size and type of facility, and may change (increase or decrease) over time, based on insurance market conditions, and such cost shall be added to, and paid for as part of the Governmental Entity's electric bill.

11.2 Insurer Requirements and Endorsements

All required insurance shall be carried by reputable insurers qualified to underwrite insurance in MA having a Best Rating of at least "A-". In addition, all insurance shall, (a) include Company as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that Company shall not incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide for thirty (30) calendar days' written notice to Company prior to cancellation, termination, or material change of such insurance; provided that to the extent the Interconnecting Customer is satisfying the requirements of subpart (d) of this

paragraph by means of a presently existing insurance policy, the Interconnecting Customer shall only be required to make good faith efforts to satisfy that requirement and will assume the responsibility for notifying the Company as required above.

If the requirement of clause (a) in the paragraph above prevents Interconnecting Customer from obtaining the insurance required without added cost or due to written refusal by the insurance carrier, then upon Interconnecting Customer's written Notice to Company, the requirements of clause (a) shall be waived.

11.3 Evidence of Insurance

Evidence of the insurance required shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by Interconnecting Customer.

The Interconnecting Customer is responsible for providing the Company with evidence of insurance in compliance with this Interconnection Tariff on an annual basis.

Prior to the Company commencing work on System Modifications, and annually thereafter, the Interconnecting Customer shall have its insurer furnish to the Company certificates of insurance evidencing the insurance coverage required above. The Interconnecting Customer shall notify and send to the Company a certificate of insurance for any policy written on a "claims-made" basis. The Interconnecting Customer will maintain extended reporting coverage for three years on all policies written on a "claims-made" basis.

In the event that an Owners Protective Liability policy is provided, the original policy shall be provided to the Company.

11.4 Self Insurance

If Interconnecting Customer has a self-insurance program established in accordance with commercially acceptable risk management practices, Interconnecting Customer may comply with the following in lieu of the above requirements as reasonably approved by the Company:

a) Interconnecting Customer shall provide to the Company, at least thirty (30) calendar days prior to the Date of Initial Operation, evidence of such program to self-insure to a level of coverage equivalent to that required.

b) If Interconnecting Customer ceases to self-insure to the standards required hereunder, or if Interconnecting Customer is unable to provide continuing evidence of Interconnecting Customer's financial ability to self-insure, Interconnecting Customer agrees to promptly obtain the coverage required under Section 11.1.

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This section shall not allow any Governmental Entity to self-insure where the existence of a limitation on damages payable by a Government Entity imposed by the Massachusetts Tort Claims Act, G.L. c. 258, or similar law, could effectively limit recovery (by virtue of a cap on recovery) to an amount lower than that required in Section 11.1(a).

12.0 ASSIGNMENT

Except as provided herein, Interconnecting Customer shall not voluntarily assign its rights or obligations, in whole or in part, under this tariff without the Company's written consent. Any assignment purportedly made by Interconnecting Customer without the Company's written consent shall not be valid. The Company shall not unreasonably withhold or delay its consent to Interconnecting Customer's assignment of this Agreement. Notwithstanding the above, the Company's consent will not be required for any assignment made by Interconnecting Customer to an Affiliate or as collateral security in connection with a financing transaction. In all events, the Interconnecting Customer will not be relieved of its obligations under this tariff unless, and until the assignee assumes in writing all obligations of this Agreement and notifies the Company of such assumption.

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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 Tariff 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 ≤ 15 kW single-phase or ≤ 25 kW three-phase, or (2) connecting to spot network electric power systems with power ratings of ≤ 15 kW single-phase. Please attach any documentation provided by the inverter manufacturer concerning the UL 1741 listing provided by the manufacturer.

Mail all material to:

Pyong Bruce Kim, Program Manager, DG Interconnections
NSTAR Electric Company d/b/a Eversource Energy
One NSTAR Way, SUM SW330
Westwood, MA 02090

Or email to dginterconnections@eversource.com

The Simplified Process is as follows:

1) Application process:
   a) Interconnecting Customer submits a Simplified Application filled out properly and completely.
   b) The electric utility (Company) acknowledges to the Interconnecting Customer receipt of the application within 3 Business Days of receipt.
   c) 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. In the event that the Facility fails Screen #5 in Figure 1, that is located in Section 3.0 of the Standards for Interconnection of Distributed Generation Tariff ("Interconnection Tariff"), as approved by the Department of Public Utilities (see Company's website for complete tariff), the Company shall have 20 Business Days to review the Interconnection Application to determine if the Facility can be interconnected safely and reliably.

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3) If approved, the Company signs the application approval line and sends to the Interconnecting Customer. In certain rare circumstances, the Company may require the Interconnecting Customer to pay for minor 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 minor 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.
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) The Interconnecting Customer returns the Certificate of Completion to the Company.
6) 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 (interconnect) until a Witness Test has been performed or has been previously waived on the Application Form. The Company is obligated to complete this Witness Test within 10 Business Days of the receipt of the Certificate of Completion. If the Company does not inspect in 10 Business Days or by mutual agreement of the Parties, the Witness Test is deemed waived.
7) Assuming the wiring inspection, all Compliance Documentation, and/or Witness Test are satisfactory, the Company notifies the Interconnecting Customer in writing that interconnection is authorized. If the any of the above are 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.

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. Include the percentage ownership (if any) by any electric service company or public utility holding company, or by any entity owned by either. "Electric service company" is intended to mean and include any entity that is not eligible for net metering services under the net metering statutes, regulations, Department orders, and distribution company tariffs.

Generating Facility Information: Please consult an actual electric bill from the 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 Statement: In an ongoing effort to improve the interconnection process for Interconnecting Customers, the information you provide and the results of the application process will be aggregated with the information of other applicants, i.e. Interconnecting

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Customers, and periodically reviewed by a DG working group of industry participants that has been organized by the Massachusetts Department of Public Utilities (DPU). The aggregation process mixes the data together so that specific details for one Interconnecting Customer are not revealed. In addition to this process, you may choose to allow the non-identifying information specific to your application to be shared with the Working Group by answering "Yes" to the Confidentiality Statement question on the first page. Please note that even in this case your identification information (contact data) and specific Facility location will not be shared.

UL1741 Listed? The standard UL 1741, "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. This term "Listed" is then marked on the equipment and supporting documentation.

AC Rating: The AC power output rating of the individual inverter.

System Design Capacity: The system total of the inverter AC Ratings. If there are multiple inverters installed in the system, this is the sum of the AC Ratings of all inverters

DC-STC rating (kW): The DC STC of all of the inverters of the Facility, regardless of the number of DC PV panels that are installed.

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Simplified Process Interconnection Application and Service Agreement

ATTACHMENT 1

Contact Information: Date Prepared: _____

Legal Name and address of Interconnecting Customer

Interconnecting Customer (print): _____Contact Person: _____

Mailing Address: _____

City: _____State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Customer name (if Customer is not Interconnecting Customer) _____

Customer email: _____ Customer telephone: _____

Customer Mailing Address: _____

City: _____State: _____ Zip Code: _____

Landowner name (if neither Interconnecting Customer nor Customer)

_____

Landowner email: _____Landowner telephone: _____

Landowner Mailing Address:

_____

City: _____State: _____ Zip Code: _____

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: _____

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City: _____State: _____ Zip Code: _____

Ownership Information (include % ownership by any electric utility): _____

Confidentiality Statement: "I agree to allow information regarding the processing of my application (without my name and address) to be reviewed by the Massachusetts DG Working Group that is exploring ways to further expedite future interconnections." Yes _____ No _____

Facility Information:

Address of Facility: _____

City: _____State: _____ Zip Code: _____

Electric Distribution Company:

_____

Account Number: _____

Meter Number: _____

Inverter Manufacturer: _____
Model Name and Number: _____ Quantity: _____

Single __ or Three __ Phase

AC Rating:	Nominal:	_____ (kW) _____ (kVA) _____ (AC Volts)
	Maximum:	_____ (kW) _____ (kVA) _____ (AC Volts)
System Design Capacity:	Nominal	_____ (kW) _____ (kVA)
	Maximum	_____ (kW) _____ (kVA)

For Solar PV provide the DC-STC rating: _____ (kW)

Prime Mover: ☐Photovoltaic ☐Reciprocating Engine ☐Fuel Cell ☐Turbine
Other _____

Energy Source: ☐Solar ☐ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐Fuel Oil
Other _____

IEEE 1547.1 (UL 1741) Listed? Yes _____ No _____

Authorized/Proposed generation capacity already exists (check all that apply):

☐ On Current Account ☐ On Same Legal Parcel of Land ☐ In Same Building/Structure

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If any apply, include existing generation capacity on design diagrams, and provide Application Number(s): _____

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 for Simplified Process Interconnections attached hereto and included in Exhibit A of the Company's Standards for Interconnection of Distributed Generation in effect from time to time:

Interconnecting 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: _____

Application ID number: _____

Company waives inspection/Witness Test? Yes____ No____

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Terms and Conditions for Simplified Process Interconnections

1) Construction of the Facility. The Interconnecting Customer may proceed to construct the Facility 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 following has occurred:

   a) 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.

   b) Certificate of Completion. The Interconnecting Customer returns the Certificate of Completion appearing as Attachment 2 to the Agreement to the Company at address noted.

   c) Company has completed or waived the right to inspection.

   d) The Company has issued the Authorization to Interconnect.

3) Company Right of Inspection. Within ten (10) Business Days after receipt of the Certificate of Completion, the Company may, 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 Tariff. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. If the Company does not inspect in 10 days or by mutual agreement of the Parties, the Witness Test is deemed waived.

4) Safe Operations and Maintenance. The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.

5) Access. The Company shall have access to the disconnect switch (if required) of the Facility at all times.

6) Disconnection. The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.

7) Metering and Billing. All Facilities approved under this Agreement qualify for net metering, as approved by the Department from time to time, and the following is necessary to implement the net metering provisions:

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

a) Interconnecting Customer Provides Meter Socket. The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards.

b) Company Installs Meter. The Company shall 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.

8) Indemnification. Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, 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.

9) 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.

10) Termination. This Agreement may be terminated under the following conditions:

a) By Mutual Agreement. The Parties agree in writing to terminate the Agreement.

b) By Interconnecting Customer. The Interconnecting Customer may terminate this Agreement by providing written notice to Company.

c) By Company. The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, (2) in the event that the Facility impairs 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, or (3) if

the Interconnecting Customer does not substantially complete construction within 12 months after receiving approval from the Company. Notwithstanding the foregoing, the Company's right to terminate this Agreement under (3) above is subject to any claim of Force Majeure made by the Interconnecting Customer in accordance with, and subject to the limitations of, Section 3.7 of the Interconnection Tariff (as defined below).

11) 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.

12) Interconnection Tariff. These Terms and Conditions are pursuant to the Company's Standard for Interconnection of Distributed Generation Tariff ("Interconnection Tariff"), as approved by the Department of Public Utilities and as the same may be amended from time to time. All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Tariff (see Company's website for complete tariff).

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

ATTACHMENT 2

Certificate of Completion for Simplified Process Interconnections

Installation Information: Check if owner-installed

Interconnecting Customer Name (print): _____

Contact Person: _____

Mailing Address: _____

City: _____State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Address of Facility (if different from above):

_____

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: _____

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

License # _____

As a condition of interconnection you are required to send/fax a copy of this form along with a copy of the signed electrical permit to (insert Company's name below):

Name: _____

Company: _____

Mail 1:_____

Mail 2:_____

City, State ZIP: _____

Fax No.: _____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit B - Generating Facility Expedited/Standard Pre-Application Report Form

Interconnecting Customer Name (print): _____

Contact Person: _____

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)

Name (print): _____

Contact Person: _____

Mailing Address: _____

City: _____State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Facility Information:

1) Proposed Facility Location (street address with cross streets, including town, and a Google Map still picture and GPS coordinates): _____

2) Generation Type: _____

3) Size (AC kW): _____

4) Single or Three Phase Generator Configuration: _____

5) Stand-alone (no on-site load, not including parasitic load)?
Yes _____ No_____

6) If there is existing service at the Proposed Facility site, provide:

   a) Interconnecting Customer Account Number
   _____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

b) site minimum and maximum (if available) current or proposed electric loads

i) Minimum kW: _____

ii) Maximum kW: _____

7) Is new service or service upgrade needed?

DISCLAIMER: Be aware that this Pre-Application Report is simply a snapshot in time and is non-binding. System conditions can and do change frequently.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit C - Expedited/Standard Process Interconnection Application

Instructions

(please do not submit this page)

General Information

Prior to submitting an Interconnection Application through either the Expedited or Standard Process, all Interconnecting Customers with Facilities that are 500kW or greater must request and receive a Pre-Application Report from the Company (Exhibit B). If the Pre-Application Report is not received within the applicable Time Frame, the Interconnecting Customer can file its application. The Pre-Application Report is optional for those Facilities that are less than 500 kW. Complete information regarding the Pre-Application Report is found in Section 3.2 of the Standards for Interconnection of Distributed Generation Tariff ("Interconnection Tariff) which is located on the Company's website.

If you wish to submit an application to interconnect your generating facility using the Expedited or Standard Process following receipt of the Pre-Application Report as applicable, please fill out all pages of the attached application form (not including this page of instructions). Once complete, please sign, attach the supporting documentation requested and enclose an application fee of $4.50/kW (minimum of $300 and maximum of $7,500).

Contact Information: You must provide as a minimum the contact information of the legal applicant, i.e. Interconnecting Customer. If another party is responsible for interfacing with the Company (utility), you must provide their contact information as well.

Ownership Information: Please enter the legal names of the owner or owners of the generating facility. Include the percentage ownership (if any) by any electric service company or public utility holding company, or by any entity owned by either. "Electric service company" is intended to mean and include any entity that is not eligible for net metering services under the net metering statutes, regulations, Department orders, and distribution company tariffs.

Confidentiality Statement: In an ongoing effort to improve the interconnection process for Interconnecting Customer-owned generating facilities, the information you provide and the results of the application process will be aggregated with the information of other applicants, i.e. Interconnecting Customers, and periodically reviewed by a DG Working Group of industry participants that has been organized by the Massachusetts Department of Public Utilities (DPU). The aggregation process mixes the data together so that specific details for one Interconnecting Customer are not revealed. In addition, for projects that qualify for a Group Study, the Company is authorized to share the Interconnecting Customer's contact information and project details with other Interconnecting Customers also involved in the Group Study. For projects that do not

qualify for a Group Study, you may choose to allow the non-identifying information specific to your application to be shared with the Working Group by answering "Yes" to the Confidentiality Statement question on the first page. Please note that even in this case your identification information (contact data) and specific generating facility location will not be shared.

Generating Facility Information

Account and Meter Numbers: Please consult an actual electric bill from the 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.

AC Rating: The AC power output rating of the individual inverter.

System Design Capacity: The system total of the inverter AC Ratings. If there are multiple inverters installed in the system, this is the sum of the AC Ratings of all inverters

DC-STC rating (kW): The DC-STC of all of the inverters of the Facility, regardless of the number of DC PV panels that are installed.

UL 1741 Listed? The standard UL 1741, "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. This "listing" is then marked on the equipment and supporting documentation.

DEP Air Quality Permit Needed? A generating facility may be considered a point source of emissions of concern by the Massachusetts Department of Environmental Protection (DEP). Therefore, when submitting this application, please indicate whether your generating facility will require an Air Quality Permit. You must answer these questions, however, your specific answers will not affect whether your application is deemed complete. Please contact the DEP to determine whether the generating technology planned for your facility qualifies for a DEP waiver or requires a permit.

Generating Facility Expedited/Standard Process Interconnection Application

Contact Information: Date Prepared: _____

Legal Name and address of Interconnecting Customer

Interconnecting Customer (print): _____Contact Person: _____

Mailing Address: _____

City: _____State: _____ Zip Code: _____

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Cancels M.D.P.U. No. 162C,

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Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Customer name (if Customer is not Interconnecting Customer) _____

Customer email: _____ Customer telephone: _____

Customer Mailing Address: _____

City: _____State: _____ Zip Code: _____

Landowner name (if neither Interconnecting Customer nor Customer)

_____

Landowner email: _____Landowner telephone: _____

Landowner Mailing Address: _____

City: _____State: _____ Zip Code: _____

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: _____

Ownership (include % ownership by any electric utility): _____

Site Control? (Y/N) _____

Will Facility be constructed on a single parcel of land? (Y/N) _____

Authorized/Proposed generation capacity already exists (check all that apply):

☐ On Current Account ☐ On Same Legal Parcel of Land ☐ In Same Building/Structure

If any apply, include existing generation capacity on design diagrams, and provide Application Number(s): _____

Confidentiality Statement: "I agree to allow information regarding the processing of my application (without my name and address) to be reviewed by the Massachusetts DG Working Group that is exploring ways to further expedite future interconnections." Yes ____ No ____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Group Study Agreement: "I understand and agree if my project becomes part of a Group Study, the Company is authorized to share my contact information and project details with other parties that are also involved in the Group Study."

Generating Facility Information

Please provide all Pre-Application Reports (either mandatory or optional) as attachments. This is mandatory for systems greater than or equal to 500 kW.

Address of Facility: _____

City: _____State: _____ Zip Code: _____

Electric Distribution Company:

_____

Account Number: _____

Meter Number: _____

System Design Capacity: Nominal _____ (kW) _____ (kVA)

Maximum _____ (kW) _____ (kVA)

For Solar PV provide the DC-STC rating: _____ (kW_{DC})

Type of Generating Unit: Synchronous _____ Induction _____ Inverter _____

Manufacturer: _____ Model: _____

Prime Mover: ☐Fuel Cell ☐ Reciprocating Engine☐ Gas Turbine☐ Steam Turbine
☐Microturbine ☐Photovoltaic Other _____

Energy Source: ☐Solar ☐ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐Fuel Oil
Other _____ (Please Specify)

For Solar PV provide the DC-STC rating: _____ (kW)

IEEE 1547.1 (UL 1741) Listed? Yes _____ No _____

1) Generating Unit Type 1
Manufacturer: _____Model Name and Number: _____

Quantity: _____

Single __ or Three __ Phase

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

AC Rating: Nominal: _____ (kW) _____ (kVA) _____ (AC Volts)

Maximum: _____ (kW) _____ (kVA) _____ (AC Volts)

2) Generating Unit Type 2 (if applicable)

Manufacturer: _____Model Name and Number: _____

Quantity: _____

Single __ or Three __ Phase

AC Rating: Nominal: _____ (kW) _____ (kVA) _____ (AC Volts)

Maximum: _____ (kW) _____ (kVA) _____ (AC Volts)

3) Generating Unit Type 3 (if applicable)

Manufacturer: _____Model Name and Number: _____

Quantity: _____

Single __ or Three __ Phase

AC Rating: Nominal: _____ (kW) _____ (kVA) _____ (AC Volts)

Maximum: _____ (kW) _____ (kVA) _____ (AC Volts)

Need an air quality permit from DEP? Yes ____ No ____ Not Sure ____
If "yes", have you applied for it? Yes ____ No ____

Planning to Export Power? Yes ____ No ____ A Cogeneration Facility? Yes____ No ____

Anticipated Export Power Purchaser: _____

Export Form? Simultaneous Purchase/Sale ____ Net Purchase/Sale ____ Net Metering ____
Other (Specify) _____

If net metering, please refer to Schedule Z of the Standards for Interconnection of Distributed Generation. Please note that if under the public cap, all off-takers must be a Municipality or Other Governmental Entity (as defined in 220 C.M.R. 18.02) and therefore be certified by the DPU.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Est. Install Date: _____ Est. In-Service Date: _____ Agreement Needed By: _____

Application Process

I am opting to forego the Expedited Process. Please review this application under the Standard Process. Yes____ No ____

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true:
Interconnecting Customer Signature: _____ Title: _____ Date: _____

The information provided in this application is complete:
Company Signature: _____ Title: _____ Date: _____

Generating Facility Technical Detail

Information on components of the generating facility that are currently Listed

	Equipment Type	Manufacturer	Model	National Standard
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____

Total Number of Generating Units in Facility? _____

Generator Unit Power Factor Rating: _____

Max Adjustable Leading Power Factor? _____ Max Adjustable Lagging Power Factor? _____

Generator Characteristic Data (for all inverter-based machines)

Max Design Fault Contribution Current? _____ Instantaneous ____ or RMS? ____

Harmonics Characteristics: _____

Start-up power requirements: _____

Generator Characteristic Data (for all rotating machines)

Rotating Frequency: _____ (rpm) Neutral Grounding Resistor (If Applicable): _____

Additional Information for Synchronous Generating Units

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Synchronous Reactance, Xd:	_____ (PU)	Transient Reactance, X'd:	_____ (PU)
Subtransient Reactance, X'd:	_____ (PU)	Neg Sequence Reactance, X2:	_____ (PU)
Zero Sequence Reactance, Xo:	_____ (PU)	kVA Base:	_____
Field Voltage:	_____ (Volts)	Field Current:	_____ (Amps)

Additional information for Induction Generating Units

Rotor Resistance, Rr:	_____	Stator Resistance, Rs:	_____
Rotor Reactance, Xr:	_____	Stator Reactance, Xs:	_____
Magnetizing Reactance, Xm:	_____	Short Circuit Reactance, Xd":	_____
Exciting Current:	_____	Temperature Rise:	_____
Frame Size:	_____		
Total Rotating Inertia, H:	_____	Per Unit on kVA Base:	_____
Reactive Power Required In Vars (No Load):			_____
Reactive Power Required In Vars (Full Load):			_____

Additional information for Induction Generating Units that are started by motoring

Motoring Power:	_____ (kW)	Design Letter:	_____

Interconnection Equipment Technical Detail Date:_____

Will a transformer be used between the generator and the point of interconnection?
Yes _____ No _____

Will the transformer be provided by Interconnecting Customer? Yes ____ No ____

Transformer Data (if applicable, for Interconnecting Customer-Owned Transformer):

Nameplate Rating: _____ (kVA) Single ____ or Three ____ Phase

Transformer Impedance: _____ (%) on a ____ kVA Base

If Three Phase:
Transformer Primary: ____ (Volts)____ Delta____ Wye____ Wye Grounded ____ Other
Transformer Secondary: ____ (Volts)____ Delta____ Wye____ Wye Grounded ____ Other

Transformer Fuse Data (if applicable, for Interconnecting Customer-Owned Fuse):
(Attach copy of fuse manufacturer's Minimum Melt & Total Clearing Time-Current Curves)

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Manufacturer: _____ Type: _____ Size: _____ Speed: _____

Interconnecting Circuit Breaker (if applicable):

Manufacturer: _____ Type: _____ Load Rating: _____ (Amps)
Interrupting Rating: _____ (Amps) Trip Speed: _____ (Cycles)

Interconnection Protective Relays (if applicable):
(If microprocessor-controlled)

List of Functions and Adjustable Setpoints for the protective equipment or software:

	Setpoint Function	Minimum	Maximum
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

(If discrete components)

(Enclose copy of any proposed Time-Overcurrent Coordination Curves)

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Current Transformer Data (if applicable):

(Enclose copy of Manufacturer's Excitation & Ratio Correction Curves)

Manufacturer: _____ Type: _____ Accuracy Class: _____ Proposed Ratio Connection: ____

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

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: ____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

General Technical Detail Date: _____

Enclose 3 copies, or send 1 electronic copy, of site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes with a Massachusetts registered professional engineer (PE) stamp. Enclose 3 copies, or send 1 electronic copy, of any applicable site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram or documentation).

Proposed Location of Protective Interface Equipment on Property:
(Include Address if Different from Application Address)

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

Enclose copies of applicable schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

When mailing application fee checks, please enclose a copy of this signed interconnection application form with the payment. Please enclose any other information pertinent to this Facility.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

ATTACHMENT 2

Certificate of Completion for Expedited/Standard Process Interconnections

Installation Information: Check if owner-installed

Interconnecting Customer Name (print): _____

Contact Person: _____

Mailing Address: _____

City: _____State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Address of Facility (if different from above):

_____

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): _____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Date: _____

License # _____

As a condition of interconnection you are required to send/fax a copy of this form along with a copy of the signed electrical permit to (insert Company's name below):

Name: _____

Company: _____

Mail 1:_____

Mail 2:_____

City, State ZIP: _____

Fax No.: _____

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit D - Supplemental Review Agreement

This Agreement, dated _____, is entered into by and between _____("Interconnecting Customer") and the Company, for the purpose of setting forth the terms, conditions and costs for conducting a Supplemental Review relative to the Expedited Process as defined in Section 1.0 and outlined in Section 3.0 of the Interconnection Tariff. This Supplemental Review pertains to Application Number _____ (the Interconnecting Customer's application ID number).Terms used herein without definition shall have the meanings set forth in Section 1.2 of the Interconnection Tariff which is hereby incorporated by reference.

If the Supplemental Review determines the requirements for processing the application through the Expedited Process including any System Modifications, then the modification requirements, reasoning, and costs and a construction schedule for these modifications will be identified and included in an executable Interconnection Service Agreement sent to the Interconnecting Customer for execution. If the Supplemental Review does not determine the requirements, it will include a proposed Impact Study Agreement as part of the Standard 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 $4,500. 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

_____ _____

Company Date

Issued by: Craig Hallstrom
President

Filed: May 13, 2015
Effective: June 1, 2015

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit E - Impact Study Agreement

This Agreement, dated _____, is entered into by and between _____ ("Interconnecting Customer') and the Company, for the purpose of setting forth the terms, conditions and costs for conducting an Impact Study relative to the Standard Process as defined in Section 1.0 and outlined in Section 3.0 of the Interconnection Tariff. This Impact Study pertains to Application Number _____ (the Interconnecting Customer's application ID number). Terms used herein without definition shall have the meanings set forth in Section 1.2 of the Interconnection Tariff which is hereby incorporated by reference.

1) 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 Impact Study not already provided in the Interconnecting Customer's application.

2) All work pertaining to the Impact Study 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.

3) Where there are other potentially Affected Systems, and no single Party is in a position to prepare an Impact Study covering all potentially Affected Systems, the Company will coordinate but not be responsible for the timing of any additional studies required to determine the impact of the interconnection request on other potentially Affected Systems. The Interconnecting Customer will be directly responsible to the potentially Affected System operators for all costs of any additional studies required to evaluate the impact of the interconnection on the potentially Affected Systems. The Company will not proceed with this Impact Study without the Interconnecting Customer's consent to have the other studies conducted. To the extent any studies or System Modifications are required, all associated agreements will be between the Affected System operator and the Interconnecting Customer.

4) If the Company determines, in accordance with Good Utility Practice, that the System Modifications to the Company EPS are not substantial, the Impact Study will determine the scope and cost of the modifications. If the Company determines, in accordance with Good Utility Practice, that the System Modifications to the Company EPS are substantial, the Impact Study will produce an estimate for the modification costs (within ±25%) and a Detailed Study Agreement and its estimated cost. Interconnecting Customers who elect to execute an Interconnection Service Agreement following the completion of the Impact Study but prior to the commencement of the Detailed Study, pursuant to Section 3.4(g) of the Interconnection Tariff, shall be responsible for any System Modifications costs, ±25%, as identified by the Company in the Impact Study.

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5) Impact Study, together with any additional studies contemplated in Paragraph 3, shall form the basis for the Interconnecting Customer's proposed use of the Company EPS and shall be furthermore utilized in obtaining necessary third-party approvals of any required facilities and requested distribution services. The Interconnecting Customer understands and acknowledges that any use of study results by the Interconnecting Customer or its agents, whether in preliminary or final form, prior to NEPOOL 18.4 approval, should such approval be required, is completely at the Interconnecting Customer's risk.

6) The Impact Study fee of $____ (except as noted below) is due in full prior to the execution of the Impact Study. If the anticipated cost exceeds $25,000, the Interconnecting Customer is eligible for a payment plan. At the request of the Interconnecting Customer, the Company will break the costs into phases in which the costs will be collected prior to Company expenditures for each phase of the study. The payment plan will be attached as an exhibit to this Agreement.

7) The Company will, in writing, advise the Interconnecting Customer in advance of any cost increase for work to be performed up to a total amount of increase of 10% only. All costs that exceed the 10% increase cap will be borne solely by the Company. Any such changes to the Company's costs for the work shall be subject to the Interconnecting Customer's consent. The Interconnecting Customer shall, within thirty (30) days of the Company's notice of increase, authorize such increase and make payment in the amount up to the 10% increase cap, or the Company will suspend the work and the corresponding agreement will terminate.

8) Final Accounting. An Interconnecting Customer may request a final accounting report of any difference between (a) Interconnecting Customer's cost responsibility under this Agreement for the actual cost of the Impact Study, and (b) Interconnecting Customer's previous aggregate payments to the Company for the Impact Study within 120 Business days after completion of the construction and installation of the System Modifications described in an attached exhibit to the Interconnection Service Agreement. Upon receipt of such a request from an Interconnecting Customer, the Company shall have 120 Business days to provide the requested final accounting report to the Interconnecting Customer. To the extent that Interconnecting Customer's cost responsibility in this Agreement exceeds Interconnecting Customer's previous aggregate payments, the Company shall invoice Interconnecting Customer and Interconnecting Customer shall make payment to the Company within forty-five (45) Business Days. To the extent that Interconnecting Customer's previous aggregate payments exceed Interconnecting Customer's cost responsibility under this Agreement, the Company shall refund to Interconnecting Customer an amount equal to the difference within forty-five (45) Business Days of the provision of such final accounting report.

9) In the event this Agreement is terminated for any reason, the Company shall refund to the Interconnecting Customer the portion of the above fee or any subsequent payment to the Company by the Interconnecting Customer that the Company did not expend or commit in

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

performing its obligations under this Agreement. Payments for work performed shall not be subject to refunding except in accordance with Paragraph 8 above.

10) Nothing in this Agreement shall be interpreted to give the Interconnecting Customer immediate rights to wheel over or interconnect with the Company's EPS.

11) Interconnecting Customer shall not voluntarily assign its rights or obligations, in whole or in part, under this Agreement without Company's written consent. Any assignment Interconnecting Customer purports to make without Company's written consent shall not be valid. Company shall not unreasonably withhold or delay its consent to Interconnecting Customer's assignment of this Agreement. Notwithstanding the above, Company's consent will not be required for any assignment made by Interconnecting Customer to an Affiliate or as collateral security in connection with a financing transaction. In all events, the Interconnecting Customer will not be relieved of its obligations under this Agreement unless, and until the assignee assumes in writing all obligations of this Agreement and notifies the Company of such assumption.

12) Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, 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.

    Notwithstanding the foregoing, the Interconnecting Customer hereby waives recourse against the Company and its Affiliates for, and releases the Company and its Affiliates from, any and all liabilities arising from or attributable to incomplete, inaccurate, or otherwise faulty information supplied by the Interconnecting Customer.

13) If either party materially breaches any of its covenants hereunder, the other party may terminate this Agreement by serving notice of same on the other party to this Agreement.

14) This agreement shall be construed and governed in accordance with the laws of the Commonwealth of Massachusetts.

15) All amendments to this Agreement shall be in written form executed by both Parties.

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

16) The terms and conditions of this Agreement shall be binding on the successors and assigns of either Party.

17) This Agreement will remain in effect for a period of up to two years from its effective date.

18) This Agreement may be terminated under the following conditions.

a) The Parties agree in writing to terminate the Agreement.

b) The Interconnecting Customer may terminate this agreement at any time by providing written notice to Company.

c) The Company may terminate this Agreement if the Interconnecting Customer either: (1) has not paid the fee or, (2) has not responded to requests for further information in accordance with provisions in the Interconnection Tariff, specifically Section 3.6.2.

Interconnecting Customer:		Company:	
Name:	_____	Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit F - Detailed Study Agreement

This Agreement, dated _____, is entered into by and between _____ ("Interconnecting Customer') and the Company, for the purpose of setting forth the terms, conditions and costs for conducting a Detailed Study relative to the Standard Process as defined in Section 1 and outlined in Section 3 of the Interconnection Tariff. This Detailed Study pertains to Application Number _____ (the Interconnecting Customer's application ID number). Terms used herein without definition shall have the meanings set forth in Section 1.2 of the Interconnection Tariff which is hereby incorporated by reference.

1) 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 Detailed Study not already provided in the Interconnecting Customer's application.

2) All work pertaining to the Detailed Study 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.

3) Where there are other Affected Systems identified by the Impact Studies, and no single Party is in a position to prepare a Detailed Study covering all Affected Systems, the Company will coordinate but not be responsible for the timing of any additional studies required to determine the System Modifications of the interconnection request on other Affected Systems. The Interconnecting Customer will be directly responsible to the Affected System operators for all costs of any additional studies required to evaluate the impact of the interconnection on the Affected Systems. The Company will not proceed with this Detailed Study without the Interconnecting Customer's consent to have the other studies conducted. To the extent any studies or System Modifications are required, all associated agreements will be between the Affected System operator and the Interconnecting Customer.

4) The Company will provide an estimate of the costs of the System Modifications required and a construction schedule. Interconnecting Customers who elect to execute an Interconnection Services Agreement following the completion of the Impact Study but prior to the commencement of the Detailed Study, pursuant to Section 3.4(g) of the Interconnection Tariff, shall be responsible for any System Modifications costs, ±25%, as identified by the Company in the Impact Study.

5) The Detailed Study, together with any additional studies contemplated in Paragraph 3, shall form the basis for the Interconnecting Customer's proposed use of the Company EPS and shall be furthermore utilized in obtaining necessary third-party approvals of any required facilities and requested distribution services. The Interconnecting Customer understands and acknowledges that any use of study results by the Interconnecting Customer or its agents,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

whether in preliminary or final form, prior to NEPOOL 18.4 approval, should such approval be required, is completely at the Interconnecting Customer's risk.

6) The Detailed Study fee of $_____ (except as noted below) is due in full prior to the execution of the Detailed Study. If the anticipated cost exceeds $25,000, the Interconnecting Customer is eligible for a payment plan. At the request of the Interconnecting Customer, the Company will break the costs into phases in which the costs will be collected prior to Company expenditures for each phase of the study. The payment plan will be attached as an exhibit to this Agreement.

7) The Company will, in writing, advise the Interconnecting Customer in advance of any cost increase for work to be performed up to a total amount of increase of 10% only. All costs that exceed the 10% increase cap will be borne solely by the Company. Any such changes to the Company's costs for the work shall be subject to the Interconnecting Customer's consent. The Interconnecting Customer shall, within thirty (30) days of the Company's notice of increase, authorize such increase and make payment in the amount up to the 10% increase cap, or the Company will suspend the work and the corresponding agreement will terminate.

8) Final Accounting. An Interconnecting Customer may request a final accounting report of any difference between (a) Interconnecting Customer's cost responsibility under this Agreement for the actual cost of the Detailed Study, and (b) Interconnecting Customer's previous aggregate payments to the Company for the Detailed Study within 120 Business days after completion of the construction and installation of the System Modifications described in an attached exhibit to the Interconnection Service Agreement. Upon receipt of such a request from an Interconnecting Customer, the Company shall have 120 Business days to provide the requested final accounting report to the Interconnecting Customer. To the extent that Interconnecting Customer's cost responsibility in this Agreement exceeds Interconnecting Customer's previous aggregate payments, the Company shall invoice Interconnecting Customer and Interconnecting Customer shall make payment to the Company within 45 Business Days. To the extent that Interconnecting Customer's previous aggregate payments exceed Interconnecting Customer's cost responsibility under this Agreement, the Company shall refund to Interconnecting Customer an amount equal to the difference within forty five (45) Business Days of the provision of such final accounting report.

9) In the event this Agreement is terminated for any reason, the Company shall refund to the Interconnecting Customer the portion of the above fee or any subsequent payment to the Company by the Interconnecting Customer that the Company did not expend or commit in performing its obligations under this Agreement. Payments for work performed shall not be subject to refunding except in accordance with Paragraph 8 above.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

10) Nothing in this Agreement shall be interpreted to give the Interconnecting Customer immediate rights to wheel over or interconnect with the Company's EPS.

11) Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Constitution from pledging their credit without prior legislative authority, 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.

    Notwithstanding the foregoing, the Interconnecting Customer hereby waives recourse against the Company and its Affiliates for, and releases the Company and its Affiliates from, any and all liabilities arising from or attributable to information supplied by the Interconnecting Customer.

12) This agreement shall be construed and governed in accordance with the laws of the Commonwealth of Massachusetts.

13) All amendments to this Agreement shall be in written form executed by both Parties.

14) The terms and conditions of this Agreement shall be binding on the successors and assigns of either Party.

15) This Agreement will remain in effect for a period of up to two years from its effective date.

16) This Agreement may be terminated under the following conditions.

    a) The Parties agree in writing to terminate the Agreement.

    b) The Interconnecting Customer may terminate this agreement at any time by providing written notice to Company.

    c) The Company may terminate this Agreement if the Interconnecting Customer either: (1) has not paid the fee or, (2) has not responded to requests for further information in accordance with provisions in the Interconnection Tariff, specifically Section 3.6.2.

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Interconnecting Customer:		Company:	
Name:	_____	Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit G - Interconnection Service Agreement

1. Parties. This Interconnection Service Agreement ("Agreement"), dated as of _____ ("Effective Date") is entered into, by and between _____, a Massachusetts corporation with a principal place of business at _____(hereinafter referred to as the "Company"), and _____, a _____ corporation with a principal place of business at _____ ("Interconnecting Customer"). (The Company and Interconnecting Customer are collectively referred to as the "Parties"). Terms used herein without definition shall have the meanings set forth in Section 1.2 of the Interconnection Tariff which is hereby incorporated by reference.

2. Basic Understandings. This Agreement provides for parallel operation of an Interconnecting Customer's Facility with the Company EPS to be installed and operated by the Interconnecting Customer at _____ (Facility name, address, and end-use Customer account number, if applicable). A description of the Facility is located in Attachment 1. If the Interconnecting Customer is not the Customer, an Agreement between the Company and the Company's Retail Customer, attached as Exhibit H to the Interconnection Tariff, must be signed and included as an Attachment to this Agreement. If neither the Interconnecting Customer nor the Customer is the Landowner of the property where the Facility is sited, a Landowner Consent Agreement, attached as Exhibit I to the Interconnection Tariff, must be signed and included as an Attachment to this Agreement, unless the Company, in its sole discretion, waives this requirement.

   The Interconnecting Customer has the right to operate its Facility in parallel with the Company EPS immediately upon successful completion of the protective relays testing as witnessed by the Company and receipt of written notice from the Company that interconnection with the Company EPS is authorized ("Authorization Date").

3. Term. This Agreement shall become effective as of the Effective Date. The Agreement shall continue in full force and effect until terminated pursuant to Section 4 of this Agreement.

4. Termination.

   4.1. This Agreement may be terminated under the following conditions.

   4.1 a) The Parties agree in writing to terminate the Agreement.

   4.1 b) The Interconnecting Customer may terminate this agreement at any time by providing sixty (60) days written notice to Company.

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4.1 c) The Company may terminate this Agreement upon the occurrence of an Event of Default by the Interconnecting Customer as provided in Section 18 of this Agreement.

4.1 d) The Company may terminate this Agreement if the Interconnecting Customer either: (1) fails to energize the Facility within 12 months of the Authorization Date; or, (2) permanently abandons the Facility. Failure to operate the Facility for any consecutive 12 month period after the Authorization Date shall constitute permanent abandonment unless otherwise agreed to in writing between the Parties.

4.1 e) The Company, upon 30 days notice, may terminate this Agreement if there are any changes in Department regulations or state law that have a material adverse effect on the Company's ability to perform its obligations under the terms of this Agreement.

4.2. Survival of Obligations. The termination of this Agreement shall not relieve either Party of its liabilities and obligations, owed or continuing at the time of termination. Sections 5, 10, 12, 13, and 25 as it relates to disputes pending or for wrongful termination of this Agreement shall survive the termination of this Agreement.

4.3. Related Agreements. Any agreement attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing. If the Interconnection Service Agreement is signed prior to a Detailed Study (if applicable), the System Modifications construction schedule from the Detailed Study when finalized shall be deemed a part of the signed Interconnection Service Agreement.

5. General Payment Terms. The Interconnecting Customer shall be responsible for the System Modification costs and payment terms identified in Attachment 3of this Agreement and any approved cost increases pursuant to the terms of the Interconnection Tariff. Interconnecting Customers shall not be required to pay any costs related to Company infrastructure upgrades or System Modifications upon execution of the Interconnection Service Agreement (or once the Interconnecting Customer receives the construction schedule). Interconnecting Customers shall have 120 Business Days from the date of execution of an Interconnection Service Agreement to pay 25 percent of those costs; if an Interconnecting Customer pays such cost within the 120 Business Day Time Frame, the Interconnecting Customer shall have an additional 120 Business Days from the date of first payment to pay the remainder of the costs. If the system modifications exceed $25,000, the Interconnecting Customer is eligible for a payment plan, including a payment and construction schedule with milestones for both parties, and any such payment plan shall be set forth in Attachment 3. The payment plan may include a payment schedule different than the 120 Business Day payment schedule requirements set forth in this paragraph above.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Construction estimates are valid for 60 Business Days from when they are delivered to the Interconnecting Customer. If an Interconnecting Customer payment is not received within 60 Business Days of receiving the Interconnection Service Agreement in the Expedited Process, or the Impact Study in the Standard Process, the Company has the right to reassess construction costs and Time Frames. In the event that the Interconnecting Customer fails to pay the Company within the Time Frame required by this provision, the Company will require the Interconnecting Customer to reapply for interconnection. Further, any fees paid will not be refunded. The construction schedule will commence once the Interconnecting Customer's financial payment has been made in full or as otherwise provided in Attachment 3. The Company's obligation to the construction schedule (as it appears in either the Interconnection Service Agreement or the Detailed Study, if the Interconnecting Customer has opted to sign the Interconnection Service Agreement without a Detailed Study) begins on the next Business Day after the Company receives full payment for such construction or as otherwise provided in Attachment 3.

5.1. Cost or Fee Adjustment Procedures.

The Company will, in writing, advise the Interconnecting Customer in advance of any cost increase for work to be performed up to a total amount of increase of 10% only. Interconnecting Customers who elected to execute an Interconnection Services Agreement following the completion of the Impact Study but prior to the commencement of any required Detailed Study, pursuant to Section 3.4(g) of the Interconnection Tariff, shall be responsible for any System Modifications costs, ±25%, as identified by the Company in the Impact Study. All costs that exceed the above caps will be borne solely by the Company. Any such changes to the Company's costs for the work shall be subject to the Interconnecting Customer's consent. The Interconnecting Customer shall, within thirty (30) Business Days of the Company's notice of increase, authorize such increase and make payment in the amount up to the above caps, or the Company will suspend the work and the corresponding agreement will terminate.

5.2. Final Accounting.

An Interconnecting Customer may request a final accounting report of any difference between (a) Interconnecting Customer's cost responsibility under this Agreement for the actual cost of the System Modifications, and (b) Interconnecting Customer's previous aggregate payments to the Company under the Interconnection Service Agreement for such System Modifications within 120 Business days after completion of the construction and installation of the System Modifications described in an attached exhibit to the Interconnection Service Agreement. Upon receipt of such a request from an Interconnecting Customer, the Company shall have 120 Business days to provide the requested final accounting report to the Interconnecting Customer. To the extent that Interconnecting Customer's cost responsibility in the Interconnection Service

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Agreement exceeds Interconnecting Customer's previous aggregate payments, the Company shall invoice Interconnecting Customer and Interconnecting Customer shall make payment to the Company within 45 Business Days. To the extent that Interconnecting Customer's previous aggregate payments exceed Interconnecting Customer's cost responsibility under this agreement, the Company shall refund to Interconnecting Customer an amount equal to the difference within forty five (45) Business Days of the provision of such final accounting report.

6. Operating Requirements.

6.1. General Operating Requirements.

Interconnecting Customer shall operate and maintain the Facility in accordance with the applicable manufacturer's recommended maintenance schedule, in compliance with all aspects of the Company's Interconnection Tariff. The Interconnecting Customer will continue to comply with all applicable laws and requirements after interconnection has occurred. In the event the Company has reason to believe that the Interconnecting Customer's installation may be the source of problems on the Company EPS, the Company has the right to install monitoring equipment at a mutually agreed upon location to determine the source of the problems. If the Facility is determined to be the source of the problems, the Company may require disconnection as outlined in Section 7.0 of this Interconnection Tariff. The cost of this testing will be borne by the Company unless the Company demonstrates that the problem or problems are caused by the Facility or if the test was performed at the request of the Interconnecting Customer.

6.2. No Adverse Effects; Non-interference.

Company shall notify Interconnecting Customer if there is evidence that the operation of the Facility could cause disruption or deterioration of service to other Customers served from the same Company EPS or if operation of the Facility could cause damage to Company EPS or Affected Systems. The deterioration of service could be, but is not limited to, harmonic injection in excess of IEEE Standard 1547-2003, as well as voltage fluctuations caused by large step changes in loading at the Facility. Each Party will notify the other of any emergency or hazardous condition or occurrence with its equipment or facilities which could affect safe operation of the other Party's equipment or facilities. Each Party shall use reasonable efforts to provide the other Party with advance notice of such conditions.

The Company will operate the EPS in such a manner so as to not unreasonably interfere with the operation of the Facility. The Interconnecting Customer will

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

protect itself from normal disturbances propagating through the Company EPS, and such normal disturbances shall not constitute unreasonable interference unless the Company has deviated from Good Utility Practice. Examples of such disturbances could be, but are not limited to, single-phasing events, voltage sags from remote faults on the Company EPS, and outages on the Company EPS. If the Interconnecting Customer demonstrates that the Company EPS is adversely affecting the operation of the Facility and if the adverse effect is a result of a Company deviation from Good Utility Practice, the Company shall take appropriate action to eliminate the adverse effect.

6.3. Safe Operations and Maintenance.

Each Party shall operate, maintain, repair, and inspect, and shall be fully responsible for, the facility or facilities that it now or hereafter may own unless otherwise specified in this Agreement. Each Party shall be responsible for the maintenance, repair and condition of its respective lines and appurtenances on their respective side of the PCC. The Company and the Interconnecting Customer shall each provide equipment on its respective side of the PCC that adequately protects the Company's EPS, personnel, and other persons from damage and injury.

6.4. Access.

The Company shall have access to the disconnect switch of the Facility at all times.

6.4 a) Company and Interconnecting Customer Representatives.

Each Party shall provide and update as necessary the telephone number that can be used at all times to allow either Party to report an emergency.

6.4 b) Company Right to Access Company-Owned Facilities and Equipment.

If necessary for the purposes of the Interconnection Tariff and in the manner it describes, the Interconnecting Customer shall allow the Company access to the Company's equipment and the Company's facilities located on the Interconnecting Customer's or Customer's premises. To the extent that the Interconnecting Customer does not own all or any part of the property on which the Company is required to locate its equipment or facilities to serve the Interconnecting Customer under the Interconnection Tariff, the Interconnecting Customer shall secure and provide in favor of the Company the necessary rights to obtain access to such equipment or facilities, including easements if the circumstances so require. In addition to any rights and easements required by the Company

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

in accordance with the above provision, the Interconnecting Customer shall obtain an executed Landowner Consent Agreement (Exhibit I) from the Landowner, unless the Company, in its sole discretion, waives this requirement.

6.4 c) Right to Review Information.

The Company shall have the right to review and obtain copies of Interconnecting Customer's operations and maintenance records, logs, or other information such as, unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Interconnecting Customer's Facility or its interconnection with the Company EPS. This information will be treated as customer-confidential and only used for the purposes of meeting the requirements of Section 4.2.4 in the Interconnection Tariff.

7. Disconnection

7.1. Temporary Disconnection

7.1 a) Emergency Conditions. Company shall have the right to immediately and temporarily disconnect the Facility without prior notification in cases where, in the reasonable judgment of Company, continuance of such service to Interconnecting Customer is imminently likely to (i) endanger persons or damage property or (ii) cause a material adverse effect on the integrity or security of, or damage to, Company EPS or to the electric systems of others to which the Company EPS is directly connected. Company shall notify Interconnecting Customer promptly of the emergency condition. Interconnecting Customer shall notify Company promptly when it becomes aware of an emergency condition that affects the Facility that may reasonably be expected to affect the Company EPS. To the extent information is known, the notification shall describe the emergency condition, the extent of the damage or deficiency, or the expected effect on the operation of both Parties' facilities and operations, its anticipated duration and the necessary corrective action.

7.1 b) Routine Maintenance, Construction and Repair. Company shall have the right to disconnect the Facility from the Company EPS when necessary for routine maintenance, construction and repairs on the Company EPS. The Company shall provide the Interconnecting Customer with a minimum of seven calendar days planned outage notification consistent with the Company's planned outage notification protocols. If the Interconnecting Customer requests disconnection by the Company at the PCC, the Interconnecting Customer will provide a minimum of seven days notice to the Company. Any additional notification requirements will be specified by mutual agreement in the Interconnection Service Agreement.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Company shall make an effort to schedule such curtailment or temporary disconnection with Interconnecting Customer.

7.1 c) Forced Outages. During any forced outage, Company shall have the right to suspend interconnection service to effect immediate repairs on the Company EPS; provided, however, Company shall use reasonable efforts to provide the Interconnecting Customer with prior notice. Where circumstances do not permit such prior notice to Interconnecting Customer, Company may interrupt Interconnection Service and disconnect the Facility from the Company EPS without such notice.

7.1 d) Non-Emergency Adverse Operating Effects. The Company may disconnect the Facility if the Facility is having an adverse operating effect on the Company EPS or other Customers that is not an emergency, and the Interconnecting Customer fails to correct such adverse operating effect after written notice has been provided and a maximum of 45 days to correct such adverse operating effect has elapsed.

7.1 e) Modification of the Facility. Company shall notify Interconnecting Customer if there is evidence of a material modification to the Facility and shall have the right to immediately suspend interconnection service in cases where such material modification has been implemented without prior written authorization from the Company.

7.1 f) Re-connection. Any curtailment, reduction or disconnection shall continue only for so long as reasonably necessary. The Interconnecting Customer and the Company shall cooperate with each other to restore the Facility and the Company EPS, respectively, to their normal operating state as soon as reasonably practicable following the cessation or remedy of the event that led to the temporary disconnection.

7.2. Permanent Disconnection.

The Interconnecting Customer has the right to permanently disconnect at any time with 30 days written notice to the Company.

7.2 a) The Company may permanently disconnect the Facility upon termination of the Interconnection Service Agreement in accordance with the terms thereof.

8. Metering. Metering of the output from the Facility shall be conducted pursuant to the terms of the Interconnection Tariff.

9. Assignment. Except as provided herein, Interconnecting Customer shall not voluntarily assign its rights or obligations, in whole or in part, under this Agreement without Company's written consent. Any assignment Interconnecting Customer purports to make without

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Company's written consent shall not be valid. Company shall not unreasonably withhold or delay its consent to Interconnecting Customer's assignment of this Agreement. Notwithstanding the above, Company's consent will not be required for any assignment made by Interconnecting Customer to an Affiliate or as collateral security in connection with a financing transaction. In all events, the Interconnecting Customer will not be relieved of its obligations under this Agreement unless, and until the assignee assumes in writing all obligations of this Agreement and notifies the Company of such assumption.

10. Confidentiality. Company shall maintain confidentiality of all Interconnecting Customer confidential and proprietary information except as otherwise required by applicable laws and regulations, the Interconnection Tariff, or as approved by the Interconnecting Customer in the Simplified or Expedited/Standard Application form or otherwise.

11. Insurance Requirements.

11.1. General Liability.

11.1 a) In connection with Interconnecting Customer's performance of its duties and obligations under the Interconnection Service Agreement, Interconnecting Customer shall maintain, during the term of the Agreement, general liability insurance with a combined single limit of not less than:

i) Five million dollars ($5,000,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than five (5) MW.

ii) Two million dollars ($2,000,000) for each occurrence and five million dollars ($5,000,000) in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than one (1) MW and less than or equal to five (5) MW;

iii) One million dollars ($1,000,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than one hundred (100) kW and less than or equal to one (1) MW;

iv) Five hundred thousand dollars ($500,000) for each occurrence and in the aggregate if the Gross Nameplate Rating of Interconnecting Customer's Facility is greater than ten (10) kW and less than or equal to one hundred (100) kW, except for as provide below in subsection 11.1(b).

11.1 b) Pursuant to 220 CMR §18.03(2), no insurance is required for Interconnecting Customers with facilities eligible for Class 1 Net Metering (facilities less than or equal to sixty (60) kW. However, the Company recommends that the Interconnecting Customer obtain adequate insurance to cover potential liabilities.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

11.1 c) Any combination of General Liability and Umbrella/Excess Liability policy limits can be used to satisfy the limit requirements stated above.

11.1 d) The general liability insurance required to be purchased in this Section 11 may be purchased for the direct benefit of the Company and shall respond to third party claims asserted against the Company (hereinafter known as "Owners Protective Liability"). Should this option be chosen, the requirement of Section 11.2(a) will not apply but the Owners Protective Liability policy will be purchased for the direct benefit of the Company and the Company will be designated as the primary and "Named Insured" under the policy.

11.1 e) The insurance hereunder is intended to provide coverage for the Company solely with respect to claims made by third parties against the Company.

11.1 f) In the event the Commonwealth of Massachusetts, or any other governmental subdivision thereof subject to the claims limits of the Massachusetts Tort Claims Act, G.L. c. 258 (hereinafter referred to as the "Governmental Entity") is the Interconnecting Customer, any insurance maintained by the Governmental Entity shall contain an endorsement that strictly prohibits the applicable insurance company from interposing the claims limits of G.L. c. 258 as a defense in either the adjustment of any claim, or in the defense of any lawsuit directly asserted against the insurer by the Company. Nothing herein is intended to constitute a waiver or indication of an intent to waive the protections of G.L. c. 258 by the Governmental Entity.

11.1 g) Notwithstanding the requirements of section 11.1(a) through (f), insurance for certain Governmental Entity facilities may be provided as set forth in section 11.1(g)(i) and (ii) below. Nothing herein changes the provision in subsection 11.1(a)(iv) that exempts Class I Net Metering facilities (less than or equal to 60 kW) from the requirement to obtain insurance. In addition, nothing shall prevent the Governmental Entity from obtaining insurance consistent with the provisions of subsection 11.1(a) through (f), if it is able and chooses to do so.

i) For solar photovoltaic (PV) facilities with a Gross Nameplate Rating in excess of 60 kW up to 500 kW, the Governmental Entity is not required to obtain liability insurance. Any liability costs borne by the Company associated with a third-party claim for damages in excess of the claims limit of the Massachusetts Tort Claims Act, M.G.L. c. 258, and market-based premium-related costs, if any, borne by the Company associated with insurance for such third-party claims shall be recovered annually on a reconciling basis in Company rates in a manner that shall be reviewed and approved by the Department.

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ii) For (a) PV facilities with a Gross Nameplate Rating in excess of 500 kW up to 5 MW, (b) wind facilities with a Gross Nameplate Rating in excess of 60 kW up to 5 MW, and (c) highly efficient combined heat and power facilities with a Gross Nameplate Rating of in excess of 60 kW up to 5 MW, the Governmental Entity is not required to obtain liability insurance, subject to the requirements of the following paragraph.

The Company shall either self-insure for any risk associated with possible third-party claims for damages in excess of the Massachusetts Tort Claims Act limit, or obtain liability insurance for such third-party claims, and the Company is authorized to charge and collect from the Governmental Entity its pro-rata allocable share of the cost of so doing, plus all reasonable administrative costs. The coverage and cost may vary with the size and type of facility, and may change (increase or decrease) over time, based on insurance market conditions, and such cost shall be added to, and paid for as part of the Governmental Entity's electric bill.

11.2. Insurer Requirements and Endorsements.

All required insurance shall be carried by reputable insurers qualified to underwrite insurance in MA having a Best Rating of at least "A-". In addition, all insurance shall, (a) include Company as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that Company shall not incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide for thirty (30) calendar days' written notice to Company prior to cancellation, termination, or material change of such – insurance; provided that to the extent the Interconnecting Customer is satisfying the requirements of subpart (d) of this paragraph by means of a presently existing insurance policy, the Interconnecting Customer shall only be required to make good faith efforts to satisfy that requirement and will assume the responsibility for notifying the Company as required above.

If the requirement of clause (a) in the paragraph above prevents Interconnecting Customer from obtaining the insurance required without added cost or due to written refusal by the insurance carrier, then upon Interconnecting Customer's written Notice to Company, the requirements of clause (a) shall be waived.

11.3. Evidence of Insurance.

Evidence of the insurance required shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by Interconnecting Customer.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

The Interconnecting Customer is responsible for providing the Company with evidence of insurance in compliance with the Interconnection Tariff on an annual basis.

Prior to the Company commencing work on System Modifications, and annually thereafter, the Interconnecting Customer shall have its insurer furnish to the Company certificates of insurance evidencing the insurance coverage required above. The Interconnecting Customer shall notify and send to the Company a certificate of insurance for any policy written on a "claims-made" basis. The Interconnecting Customer will maintain extended reporting coverage for three years on all policies written on a "claims-made" basis.

In the event that an Owners Protective Liability policy is provided, the original policy shall be provided to the Company.

11.4. Self Insurance.

If Interconnecting Customer has a self-insurance program established in accordance with commercially acceptable risk management practices. Interconnecting Customer may comply with the following in lieu of the above requirements as reasonably approved by the Company:

- Interconnecting Customer shall provide to Company, at least thirty (30) calendar days prior to the Date of Initial Operation, evidence of such program to self-insure to a level of coverage equivalent to that required.

- If Interconnecting Customer ceases to self-insure to the standards required hereunder, or if Interconnecting Customer is unable to provide continuing evidence of Interconnecting Customer's financial ability to self-insure, Interconnecting Customer agrees to promptly obtain the coverage required under Section 11.1.

This section shall not allow any Governmental Entity to self-insure where the existence of a limitation on damages payable by a Government Entity imposed by the Massachusetts Tort Claims Act, G.L. c. 258, or similar law, could effectively limit recovery (by virtue of a cap on recovery) to an amount lower than that required in Section 11.1(a).

11.5. All insurance certificates, statements of self-insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

[Company Name]
Attention: _____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

_____
_____
_____ (specific requirements)

12. Indemnification. Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, 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.

13. Limitation of Liability. Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including court costs and 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 or liability 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.

14. Amendments and Modifications. No amendment or modification of this Agreement shall be binding unless in writing and duly executed by both Parties.

15. Permits and Approvals. Interconnecting Customer shall obtain all environmental and other permits lawfully required by governmental authorities for the construction and operation of the Facility. Prior to the construction of System Modifications the Interconnecting Customer will notify the Company that it has initiated the permitting process. Prior to the commercial operation of the Facility the Interconnecting Customer will notify the Company that it has obtained all permits necessary. Upon request the Interconnecting Customer shall provide copies of one or more of the necessary permits to the Company.

16. Force Majeure. For purposes of this Agreement, "Force Majeure Event" means any event:

    a) that is beyond the reasonable control of the affected Party; and

    b) that the affected Party is unable to prevent or provide against by exercising commercially reasonable efforts, including the following events or circumstances, but only to the extent they satisfy the preceding requirements: acts of war or terrorism, public disorder, insurrection, or rebellion; floods, hurricanes,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

earthquakes, lightning, storms, and other natural calamities; explosions or fire; strikes, work stoppages, or labor disputes; embargoes; and sabotage. 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 will 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 will be entitled to 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 reasonable efforts. The affected Party will use reasonable efforts to resume its performance as soon as possible. In no event will the unavailability or inability to obtain funds constitute a Force Majeure Event.

17. Notices.

17.1. Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given on the date actually delivered in person or five (5) Business Days after being sent by certified mail, e-mail or fax with confirmation of receipt to the person specified below:

If to Company:

Name _____
Attention: _____
_____
_____
_____
Phone: _____
Email: _____
FAX: _____

If to Interconnecting Customer:

Name _____
Address: _____
_____
_____
City: _____
Phone: _____
Email: _____
FAX: _____

17.2. A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 17.1.

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17.3. The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, email addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

18. Default and Remedies.

18.1. Defaults. Any one of the following shall constitute "An Event of Default."

i) One of the Parties shall fail to pay any undisputed bill for charges incurred under this Agreement or other amounts which one Party owes the other Party as and when due, and such failure shall continue for a period of thirty (30) days after written notice of nonpayment from the affected Party to the defaulting Party, or

ii) One of the Parties fails to comply with any other provision of this Agreement or breaches any representation or warranty in any material respect and fails to cure or remedy that default or breach within sixty (60) days after notice and written demand by the affected Party to cure the same or such longer period reasonably required to cure (not to exceed an additional 90 days unless otherwise mutually agreed upon), provided that the defaulting Party diligently continues to cure until such failure is fully cured.

18.2. Remedies. Upon the occurrence of an Event of Default, the affected Party may at its option, in addition to any remedies available under any other provision herein, do any, or any combination, as appropriate, of the following:

a) Continue to perform and enforce this Agreement;

b) Recover damages from the defaulting Party except as limited by this Agreement;

c) By written notice to the defaulting Party terminate this Agreement;

d) Pursue any other remedies it may have under this Agreement or under applicable law or in equity.

19. Entire Agreement. This Agreement, including any attachments or appendices, is entered into pursuant to the Interconnection Tariff. Together the Agreement and the Interconnection Tariff represent the entire understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each Party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement or in the Company's Interconnection Tariff.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

20. Supercedence. In the event of a conflict between this Agreement, the Interconnection Tariff, or the terms of any other tariff, Exhibit or Attachment incorporated by reference, the terms of the Interconnection Tariff, as the same may be amended from time to time, shall control. In the event that the Company files a revised tariff related to interconnection for Department approval after the effective date of this Agreement, the Company shall, not later than the date of such filing, notify the signatories of this Agreement and provide them a copy of said filing.

21. Governing Law. This Agreement shall be interpreted, governed, and construed under the laws of the Commonwealth of Massachusetts without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.

22. Non-waiver. None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.

23. Counterparts. This Agreement may be signed in counterparts.

24. No Third Party Beneficiaries. This Agreement is made solely for the benefit of the Parties hereto. Nothing in the Agreement shall be construed to create any rights in or duty to, or standard of care with respect to, or any liability to, any person not a party to this Agreement.

25. Dispute Resolution. Unless otherwise agreed by the Parties, all disputes arising under this Agreement shall be resolved pursuant to the Dispute Resolution Process set forth in the Interconnection Tariff.

26. Severability. If any clause, provision, or section of this Agreement is ruled invalid by any court of competent jurisdiction, the invalidity of such clause, provision, or section, shall not affect any of the remaining provisions herein.

27. Signatures.

    IN WITNESS WHEREOF, the Parties hereto have caused two (2) originals of this Agreement to be executed under seal by their duly authorized representatives.

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Interconnecting Customer	Company
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____
Date: _____	Date: _____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

The following attachments will be included as appropriate for each specific Interconnection Service Agreement:

Attachment 1: Description of Facilities, including demarcation of Point of Common Coupling

Attachment 2: Description of System Modifications

Attachment 3: Costs of System Modifications and Payment Terms

Attachment 4: Special Operating Requirements, if any

Attachment 5: Agreement between the Company and the Company's retail Customer (to be signed by the Company's retail Customer where DG installation and interconnection will be placed, when retail Customer is not the owner and/or operator of the distributed generation facility --see Exhibit H of the Interconnection Tariff)

Attachment 6: Landowner Consent Agreement (to be signed by the Landowner where the Facility will be located when the Landowner is neither the Customer nor Interconnecting Customer --Exhibit I)

Attachment 7: System Modifications construction schedule. If the Interconnection Service Agreement is signed prior to a Detailed Study (if applicable), the System Modifications construction schedule from the Detailed Study when finalized shall be deemed a part of the signed Interconnection Service Agreement

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit H - Agreement Between the Company and the Company's Retail Customer

(Note: this Agreement is to be signed by the Company's retail Customer where the distributed generation installation and interconnection will be placed, when the retail Customer is not the owner and/or operator of the distributed generation facility.)

This Agreement between the Company and the Company's Retail Customer ("Agreement"), dated as of _____ ("Effective Date" of this Agreement) is entered into, by and between _____, a Massachusetts corporation with a principal place of business at _____ (hereinafter referred to as the "Company"), and _____, a _____ corporation with a principal place of business at _____ ("Customer"). (The Company and Customer are collectively referred to as the "Parties"). Terms used herein without definition shall have the meanings set forth in Section 1.2 of the Interconnection Tariff, which is hereby incorporated by reference.

1. SCOPE, PURPOSE, AND RELATED AGREEMENTS

   This Agreement, in conjunction with the Interconnection Service Agreement identified in Section 2.2, allows the Interconnecting Customer (as identified in Section 2.3) to utilize Customer's electrical facilities to interconnect and operate the Facility in Parallel with Company's EPS. The purpose of the Facility is to serve the Customer's electrical loads at the location identified in Section 2.1

2. SUMMARY AND DESCRIPTION OF THE PARTIES AND LOCATION OF GENERATING FACILITY

   2.1. The name and address used by Company to locate the Customer or electric service account where the Facility interconnects with Company's EPS is:

Name: _____

Attention: _____

Address: _____

City: _____

Phone: _____

FAX: _____

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Company Account Number: _____

2.2. The Facility shall be Interconnected with the Company's EPS pursuant to an Interconnection Services Agreement between Company and Interconnecting Customer, its successors or assigns ("Interconnecting Customer") dated _____ ("Interconnection Service Agreement").

2.3 Interconnecting Customer's contact information:

Name: _____

Attention: _____

Address: _____

City: _____

Phone: _____

FAX: _____

3. CUSTOMER ACKNOWLEDGMENT AND OBLIGATIONS

3.1. Customer acknowledges that it has authorized the Facility to be installed and operated by Interconnecting Customer in accordance with Company's Interconnection Tariff on or adjacent to Customer's premises. Such Facility shall be used to serve all or a portion of Customer's electrical loads associated with the electric service provided by Company at the location identified in Section 2.1 above. Customer shall be solely responsible for the terms of any agreement between it and Interconnecting Customer.

3.2. Customer shall be solely responsible for any charges incurred under Company's electric service tariffs, and any other regulations and laws governing the provision of electric services. Customer acknowledges that it has been made aware of the charges and conditions related to the operation of the Facility and that the performance or lack of performance of the Facility may affect the rates and charges billed by Company for the electric power delivered to Customer. Copies of such tariffs are available by request to Company or on the Company's web site.

3.3. Any amount to be paid, or refunded to, Company for the services received by Customer as a result of the Interconnecting Customer failing to operate the Facility in accordance with the terms of the representations and warranties made under the Interconnection

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Service Agreement shall be paid to Company by the Customer in accordance with Company's electric tariffs.

3.4. Customer shall provide access as necessary to the Customer's premises for Company personnel, contractors or agents to perform Company's duties under the Interconnection Tariff. The Company shall have access to the disconnect switch of the Facility at all times.

4. TERMS AND TERMINATION

4.1. This Agreement shall become effective as of the date referenced in the preamble. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

a) The Parties agree in writing to terminate the Agreement.

b) At 12:01 A.M. on the day following the date the Customer's electric service account through which the Facility is interconnected to Company's EPS is closed or terminated.

c) At 12:01 A.M. on the 31st day following the date the Interconnection Service Agreement is terminated.

d) At 12:01 A.M. on the 61st day after Company provides written Notice pursuant to Section 6 below to the Customer that Customer is not in compliance with the terms of this Agreement.

5. LIMITATION OF LIABILITY

5.1. Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including court costs and 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 or liability 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.

5.2. Company shall not be liable to Customer in any manner, whether in tort or contract or under any other theory, for loss or damages of any kind sustained by Customer resulting from existence of, operation of, or lack of operation of the Facility, or termination of the Interconnection Service Agreement, provided such termination is consistent with the terms of the Interconnection Service Agreement, except to the extent such loss or damage is caused by the negligence or willful misconduct of the Company.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

6. NOTICES

6.1. Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given on the date actually delivered in person or five (5) business days after being sent by certified mail, e-mail or fax with confirmation of receipt to the person specified below:

If to Company:

Name _____
Attention: _____
Address: _____
_____
_____
Phone: _____
FAX: _____

If to Customer:

Name _____
Attention: _____
Address: _____
_____
_____
City: _____
Phone: _____
FAX: _____

6.2. A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 6.1.

6.3. The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

7. RELEASE OF DATA

Company shall maintain confidentiality of all Customer confidential and proprietary information except as otherwise required by applicable laws and regulations, the Interconnection Tariff, or as approved in writing by the Customer.

8. ASSIGNMENT

Except as provided herein, Customer shall not voluntarily assign its rights or obligations, in whole or in part, under this Agreement without Company's written consent. Any assignment Customer purports to make without Company's written

consent shall not be valid. Company shall not unreasonably withhold or delay its consent to Customer's assignment of this Agreement. Notwithstanding the above, Company's consent will not be required for any assignment made by Customer to an Affiliate or as collateral security in connection with a financing transaction. In all events, the Customer will not be relieved of its obligations under this Agreement unless, and until the assignee assumes in writing all obligations of this Agreement and notifies the Company of such assumption.

9. NON-WAIVER

None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.

10. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF COMPANY'S TARIFFS, DEFINED TERMS

10.1. This Agreement shall be interpreted, governed, and construed under the laws of the Commonwealth of Massachusetts without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.

10.2. The interconnection and services provided under this Agreement shall at all times be subject to terms and conditions set forth in the tariffs applicable to the electric service provided by Company. Copies of such tariffs are available at the Company's web site or by request to Company and are incorporated into this Agreement by this reference.

10.3. Notwithstanding any other provisions of this Agreement, Company shall have the right to unilaterally file with the Department, pursuant to the Department's rules and regulations, an application for change in tariffs, rates, charges, classification, service or any agreement relating thereto.

10.4. When initially capitalized, whether in the singular or in the plural, the terms used herein shall have the meanings assigned to them either in this Agreement or in the Interconnection Tariff.

11. AMENDMENTS AND MODIFICATION

This Agreement can only be amended or modified by a written agreement signed by both Parties.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

12. ENTIRE AGREEMENT

This Agreement, including any attachments or appendices, is entered into pursuant to the Interconnection Service Agreement and the Interconnection Tariff. Together this Agreement, the Interconnection Service Agreement, and the Interconnection Tariff represent the entire understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement or in the Company's Interconnection Tariff.

13. INDEMNIFICATION

Except as the Commonwealth is precluded from pledging credit by Section 1 of Article 62 of the Amendments to the Constitution of the Commonwealth of Massachusetts, and except as the Commonwealth's cities and towns are precluded by Section 7 of Article 2 of the Amendments to the Massachusetts Constitution from pledging their credit without prior legislative authority, 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.

14. SIGNATURES

IN WITNESS WHEREOF, the Parties hereto have caused two (2) originals of this Agreement to be executed under seal by their duly authorized representatives.

NSTAR ELECTRIC COMPANYD/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Customer	Company
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____
Date: _____	Date: _____

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Exhibit I–Landowner Consent Agreement

(Note: This Consent is to be signed by the owner of the land where the distributed generation installation and interconnection will be placed, when the owner or operator of the distributed generation installation is not also the owner of the land, and the landowner's electric facilities will not be involved in the interconnection of such distributed generation installation.)

This Consent is executed by _____, (the "Landowner"; as used herein the term shall include the Landowner's successors in interest to the Property), as owner of the real property situated in the City/Town of _____, _____County, Massachusetts, known as _____[street address] (the "Property"), at the request of _____[name of Interconnecting Customer] (the "Interconnecting Customer"; as used herein the term shall include the Interconnecting Customer's successors and assigns) and for the benefit of _____ a Massachusetts corporation with a principal place of business at _____ (the "Company"); as used herein the term shall include the Company's successors and assigns).

1. The purpose of this Consent is to provide the Company with assurance that the installation of a distributed generation facility (the "Facility") by the Interconnecting Customer on the Property has been approved by the Landowner.

2. The Landowner hereby acknowledges that it has authorized the Facility to be installed and operated by Interconnecting Customer on the Property pursuant to agreements between the Landowner and the Interconnecting Customer that are in full force and effect as of the date hereof.

3. The Landowner hereby acknowledges that the Landowner shall look solely to the Interconnecting Customer for the performance of and compliance with all of the terms of any agreements between the Landowner and the Interconnecting Customer, and that the Company shall not, by virtue of any agreement between the Company and the Interconnecting Customer, be deemed to have assumed any obligation or liability to the Landowner.

4. The Company hereby acknowledges that the Company shall look solely to the Interconnecting Customer for the performance of and compliance with all of the terms of any agreements between the Company and the Interconnecting Customer , and that the Landowner shall not, by virtue of any agreement between the Landowner and the Interconnecting Customer, be deemed to have assumed any obligation or liability to the Company.

5. The Landowner hereby grants the Company access as necessary to the Property for Company personnel, contractors or agents, to perform Company's duties under the agreements with the Interconnecting Customer.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

6. Landowner acknowledges and agrees that the Company shall have no liability to the Landowner, whether in tort or contract, or under any other legal theory, and specifically excluding any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever, for any loss, cost, claim, injury, liability, or expense, including court costs and reasonable attorney's fees, relating to or arising from (a) the installation or operation of the Facility on the Property, or (b) any act or omission in the Interconnecting Customer's performance of its agreements with the Landowner or the Company, except to the extent caused solely by the negligence or willful misconduct of the Company, its agents, contractors or employees.

7. This Agreement shall be interpreted, governed, and construed under the laws of the Commonwealth of Massachusetts without giving effect to choice of law provisions that might apply the law of a different jurisdiction.

IN WITNESS WHEREOF, the Landowner and the Company have caused this Consent to be executed under seal by its duly authorized representatives.

LANDOWNER

By: _____
Name: _____
Title: _____

COMPANY

By: _____
Name: _____
Title: _____

NSTAR ELECTRIC COMPANY D/B/A EVERSOURCE ENERGY **M.D.P.U. No. 162D**
Cancels M.D.P.U. No. 162C,

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Schedule Z – Additional Information Required for Net Metering Service

Please fill out the form completely.

Host Customer Name: _____ Telephone: _____

Address of Facility: _____

Billing Account Number: _____

Meter Number: _____ Application ID Number: _____

Is the Host Customer a: _____Municipality_____Other Governmental Entity

If so, attach a copy of DPU issued Public Entity certification form.

A) Is the Host Customer applying for net metering service an electric company, generation company, aggregator, supplier, energy marketer, or energy broker, as those terms are used in M.G.L. c. 164, §§ 1 and 1F and 220 C.M.R. §11.00?
____ No
____ Yes (you are not eligible for net metering service)

NOTE: Definitions are:

"Aggregator" means an entity which groups together electricity Customers for retail sale purposes, except for public entities, quasi-public entities or authorities, or subsidiary organizations thereof, established under the laws of the commonwealth. G.L. c. 164, § 1.

"Electric company" means a corporation organized under the laws of the commonwealth for the purpose of making by means of water power, steam power or otherwise and for selling, transmitting, distributing, transmitting and selling, or distributing and selling, electricity within the commonwealth, or authorized by special act so to do, even though subsequently authorized to make or sell gas; provided, however, that electric company shall not mean an alternative energy producer; provided further, that a distribution company shall not include an entity which owns or operates a plant or equipment used to produce electricity, steam and chilled water, or an affiliate engaged solely in the provision of such electricity, steam and chilled water, where the electricity produced by such entity or its affiliate is primarily for the benefit of hospitals and nonprofit educational institutions, and where such plant or equipment was in operation before January 1, 1986; and provided further, that electric company shall not mean a corporation only transmitting and selling, or only transmitting, electricity unless such corporation is affiliated with an electric company organized under the laws of the commonwealth for the purpose of distributing and selling, or distributing only, electricity within the commonwealth. G.L. c. 164, § 1.

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

"Generation company" means a company engaged in the business of producing, manufacturing or generating electricity or related services or products, including but not limited to, renewable energy generation attributes for retail sale to the public. G.L. c. 164, § 1.

"Host Customer" means a Customer with a Class I, II, or II Net Metering Facility that generates electricity on the Customer's side of the meter.

"Nameplate Capacity" means, for the purposes of calculating net metering capacity only, the nominal capacity of a system that reflects normal operating conditions, and not maximum operating conditions.

"Supplier" means any supplier of generation service to retail Customers, including power marketers, brokers and marketing affiliates of distribution companies, except that no electric company shall be considered a supplier. G.L. c. 164, § 1.

For the terms "energy marketer" and "energy broker," please use the definition for "Electricity Broker," which means an entity, including but not limited to an Aggregator, which facilitates or otherwise arranges for the purchase and sale of electricity and related services to Retail Customers, but does not sell electricity. Public Aggregators shall not be considered Electricity Brokers. 220 C.M.R. 11.02.

B) If applying for Net Metering as an Agricultural Net Metering Facility, please answer the following questions:

1) Is the Agricultural Net Metering Facility operated as part of an agricultural business?
____ Yes
____ No (the facility is not eligible for Net Metering as an Agricultural Net Metering Facility)

2) Has the Commissioner of the Department of Agriculture recognized the business as an agricultural business?
____ Yes
____ No

3) Is the Agricultural Net Metering Facility located on land owned or controlled by the agricultural business mentioned in Item B.1 above?
____ Yes
____ No (the facility is not eligible for Net Metering as an Agricultural Net Metering Facility)

4) Is the energy from the Agricultural Net Metering Facility used to provide electricity to metered accounts of the agricultural business mentioned in Item B.1 above?
____ Yes
____ No (the facility is not eligible for Net Metering as an Agricultural Net Metering Facility)

C) If applying for neighborhood net metering, please answer the following questions:

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STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

1) Are all participants served by the same distribution company? ____Yes ____No
2) Are all participants served by the same ISO-NE load zone? ____Yes ____No
3) Do all participants reside in the same municipality? ____Yes ____No

NOTE: If any of the answers to the questions in Item C are no, then the facility is ineligible for neighborhood net metering unless granted an exception by the Department of Public Utilities under 220 C.M.R. §18.09(6).

D) Please indicate how the Host Customer will report to the Company the amount of electricity generated by the net metering facility. The information is due twice each year: (1) by January 31 for the prior year's generation; (2) by September 30 for the year-to-date generation:
_____ Provide the Company access to their ISO-NE GIS account
_____ Provide the Company access to their metering or inverter data
_____ Provide the Company with a report in writing of the generation by January 31 and again on September 30 each year

E) For any Billing Period in which the Host Customer earns Net Metering Credits, please indicate how the Distribution Company will apply them:
_____ Apply all of the Net Metering Credits to the account of the Host Customer (Skip Items F and G)
_____ Allocate all the Net Metering Credits to the accounts of eligible Customers (Class I and II Net Metering Facilities skip Item F)
_____ Both apply a portion of the Net Metering Credits to the Host Customer's account and allocate a portion to the accounts of eligible Customers (Class I and II Net Metering Facilities skip Item F)

F) If the Host Customer has a Class III Net Metering Facility, please indicate below the range that best represents the number of eligible Customer accounts to which Net Metering Credits would be allocated. Alternatively, please complete Item G. This information will allow the Company to exercise its option to purchase Net Metering Credits from the Host Customer rather than allocating such credits.

The Company will notify the Host Customer within 30 days of the filing of Schedule Z whether it will allocate or purchase Net Metering Credits. If the Company elects to purchase Net Metering Credits, the Company will render payment by issuing a check to the Host Customer each Billing Period, unless otherwise agreed in writing by the Host Customer and Company. If the Company elects to allocate Net Metering Credits, the Host Customer must complete Item G and submit the revised Schedule Z to the Company.

_____ Allocate Net Metering Credits to fewer than 50 eligible Customer accounts (Skip Item G)
_____ Allocate Net Metering Credits to 100 or fewer eligible Customer accounts (Skip Item G)
_____ Allocate Net Metering Credits to more than 100 eligible Customer accounts (Skip Item G)

G) Please state the total percentage of Net Metering Credits to be allocated.

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____% Amount of the Net Metering Credit being allocated. The total amount of Net Metering Credits being allocated shall not exceed 100 %. Any remaining percentage will be applied to the Host Customer's account.

Please identify each eligible Customer account to which the Host Customer is allocating Net Metering Credits by providing the following information (attach additional pages as needed):

NOTE: If a designated Customer account closes, the allocated percentage will revert to the Host Customer's account, unless otherwise mutually agreed in writing by the Host Customer and the Company.

Customer Name: _____
Service Address: _____
Billing Account Number: _____
If public entity, DPU Public Classification ID: _____
Amount of Net Metering Credit Allocated: _____ %

Customer Name: _____
Service Address: _____
Billing Account Number: _____
If public entity, DPU Public Classification ID: _____
Amount of Net Metering Credit Allocated: _____ %

Customer Name: _____
Service Address: _____
Billing Account Number: _____
If public entity, DPU Public Classification ID: _____
Amount of Net Metering Credit Allocated: _____ %

Customer Name: _____
Service Address: _____
Billing Account Number: _____
If public entity, DPU Public Classification ID: _____
Amount of Net Metering Credit Allocated: _____ %

Customer Name: _____

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Service Address: _____

Billing Account Number: _____

If public entity, DPU Public Classification ID: _____

Amount of Net Metering Credit Allocated: _____ %

Customer Name: _____

Service Address: _____

Billing Account Number: _____

If public entity, DPU Public Classification ID: _____

Amount of Net Metering Credit Allocated: _____ %

H) The Company may elect to seek to obtain capacity payments from ISO-NE for the electricity generated by Class II and III Net Metering Facilities. The Company will notify the Host Customer within 30 days of the filing of Schedule Z whether it will assert title to the right to seek those capacity payments. If the Company elects to assert title to those capacity payments, the Company will include any capacity payments received from ISO-NE in the Company's annual Net Metering Recovery Surcharge reconciliation.

I) The terms of this Schedule Z shall remain in effect unless and until the Host Customer executes a revised Schedule Z and submits it to the Company. Unless otherwise required herein or mutually agreed to in writing by the Host Customer and the Company, a revised Schedule Z shall not be submitted more than twice in any given calendar year.

J) A signature on the application shall constitute certification that (1) the Host Customer has read the application and knows its contents; (2) the contents are true as stated, to the best knowledge and belief of the Host Customer; and (3) the Host Customer possesses full power and authority to sign the application.

_____
Host Customer (Signature)

_____
Host Customer (Print)

_____
Date

Information Request AG-ES-1-3

Does Eversource consider a behind-the-meter thermal energy storage device with no ability to export power as subject to its Interconnection of Distributed Generation Standards? If so, please explain fully. If not, please identify any other tariff provisions the Company contends apply to behind-the-meter thermal storage devices.

Response

No, Eversource does not consider a single stand-alone behind the meter thermal energy storage device subject to its Standards for Interconnection of Distributed Generation ("Interconnection Tariff"). The Company would normally treat such a device similar to any other behind the meter load and would assess the impact of the device on the system through its normal customer connection or alteration processes as specified in the Company's Terms and Conditions for Distribution Service. In order for the Company to ensure an adequate level of reliable and quality service, the Company must ensure that any single customer is not adversely affecting other customers. Through its processes for connection and service modifications, the Company works with customers to study the impact of providing the required service and installing the appropriate equipment needed to mitigate any undesirable load characteristics.

Neither the Company's Distribution Service Terms and Conditions nor its Interconnection Tariff neatly cover the CLC pilot scenario. The general Distribution Service Terms and Conditions related to new connection and alterations to existing service are applicable for single customers where the customer is managing its own load (e.g. to make operational improvements or reduce costs). This is in stark contrast to what CLC is attempting to do with this pilot. In this instance, CLC's intent is to operate its thermal storage facilities in a way that, according to the terms of the pilot, may affect the Company's transmission and distribution system. That intent, by its nature, will affect other customers without the ability for the CLC to know if there is a resulting negative impact.

Both the Distribution Service Terms and Conditions and the Interconnection Tariff have long included requirements to protect other customers from such adverse impacts. Below are relevant sections from the Company's Terms and Conditions for Distribution

Service and, relatedly, the Company's Information & Requirements for Electric Service handbook.

NSTAR & COMMONWEALTH ELECTRIC COMPANY: M.D.T.E. 300A, Effective February 1, 2006, Terms and Conditions, Page 7 of 16

4C. Unusual Load Characteristics

The Company may, in the exercise of reasonable judgment, refuse to supply service to loads having unusual characteristics that might adversely affect the quality of service supplied to other Customers, the public safety, or the safety of the Company's personnel. In lieu of such refusal, the Company may require a Customer to install any necessary operating and safety equipment in accordance with requirements and specifications of the Company provided such installation does not conflict with applicable electrical code, and Federal, State or Municipal law.

NSTAR Electric Information & Requirements for Electric Service, Revised 2009

ARTICLE 800 UTILIZATION EQUIPMENT

801. General

Electric service must not be used in such manner as to cause unusual fluctuations or disturbances in NSTAR's distribution system. In the case of a violation of this rule, NSTAR may discontinue service or require the customer to modify the installation with approved controlling devices. Motor and other installations connected to NSTAR's lines must be of a type to use minimum starting current and must conform to the requirements of NSTAR and the applicable electrical code with respect to wiring, kind of equipment and control devices.

804. Fluctuating Loads

Welders, X-Ray equipment, motors connected to variable load machinery, and other equipment having fluctuating load characteristics may, for satisfactory service, require

special facilities. NSTAR reserves the right to withhold connection to such loads, which are considered detrimental to the service of other customers. The NSTAR New Customer Connect Tech Center will advise the customer in these applications.

602. Fluctuating Loads

Loads such as electric welders, furnaces, boilers, compressors, pumps, molding machines or similar equipment with load fluctuations shall not be installed, except under conditions specified by NSTAR. Please contact the NSTAR New Customer Connect Tech Center to advise of the proposed installation of this equipment. Voltage dips caused by load fluctuations, regardless of their frequency, must not cause undue disturbance to other customers nor hinder the Company in maintaining proper voltage conditions. For customers served by a dedicated transformer on single phase lines, welders should conform to NEMA-EEI Standards and not draw more than 46 amperes at 240 volts. (Please see more specific details in Article 804)

608. Power Quality

NSTAR delivers high quality power. The increased use of customer-owned equipment that can adversely affect the quality of electric service to other customers is of great concern. In order to maintain delivery of high quality power to all of our customers, the installation of customer-owned equipment that may affect NSTAR's electric system, shall meet NSTAR specifications. NSTAR reserves the right to withhold or disconnect service where installation of such loads or equipment is detrimental to NSTAR's service to other customers. For further information please contact the NSTAR New Customer Connect Tech Center. NSTAR has adopted IEEE Std. 519-1992, IEEE Recommended Practices and Requirements for Harmonic Control in Electric Power Systems. However, NSTAR reserves the right to enforce stricter guidelines than those outlined in IEEE 519-1992, when in NSTAR's opinion, the harmonic contributions from a customer or group of customers contributes to degradation in the quality of service to other customers on the system to an unacceptable level. NSTAR may require corrective actions be taken at the customer's expense.

Information Request AG-ES-1-4

Please identify and describe all distributed energy resources the Company contends are subject to its Standards for Interconnection of Distributed Generation.

Response

The Company considers any equipment that is used to produce, manufacture, or otherwise generate electricity and is intended to or can be operated in parallel with the Company's distribution system at any instant in time to be subject to the Company's Interconnection Tariff.

Information Request AG-ES-1-5

Please refer to Exhibit ES-JDT-1, p. 8, which states, "NSTAR Electric must have reasonable knowledge and control over technology that is interconnected to its distribution system and, in particular, how it is operated." Is it the Company's position that it must have reasonable knowledge and control over all behind the meter storage technology?

Response

Please see the Company's response to Information Request AG-ES-1-3. As with any connected customer equipment, the Company must have reasonable knowledge and control to ensure connected facilities are not adversely impacting other customers. In this context, the word "control" is intended to mean that the Company has the means of limiting or regulating the use of equipment and to restrict certain activities or uses. It is not intended to mean that the Company needs direct operational control of the device(s).

Information Request AG-ES-1-6

If the thermal storage facilities that Cape Light Compact is proposing to deploy are not under the active operational control and/or dispatch of the Compact, does this change the Company's position? Why or why not?

Response

The Company would not be concerned if the storage facilities the CLC is proposing are each independently operated by customers where they are installed and are not being directed to operate in any specific manner with the intent to potentially affect the distribution system (See Exh. CLC-MTD Attachment A at 1). Even if the CLC is not actively controlling and/or directly dispatching units, there is the possibility for an adverse effect. For example, if all the facilities proposed for the pilot are on the same feeder, in a similar location, such as an industrial park, and operated on a time clock that turns all Ice Bear units off at the same time, this sudden spike in AC load might create an unacceptable voltage drop. This might not be considered active control; however, this passive control still has the potential to cause reliability problems for other customers on that circuit.

Information Request AG-ES-1-7

Please refer to Exhibit ES-JDT-1, p. 11-12 describing the level of coordination between Eversource and the Compact necessary for the thermal storage offerings to succeed. Is the level of coordination the Company describes necessary to accommodate the amount of demand reduction impacts (estimated in the range of 100-250 kW; see Exh. CLC-MTD, Attachment B, p. 12 of 19) of the thermal technology proposed by the Compact? Why or why not?

Response

The level of coordination required is very dependent on the specifics of the program and what assumptions are being tested. The Company acknowledges that the estimated range of 100-250 kW is generally considered small and is not likely to have a material impact on the system although it would still be considered material at a very local level, e.g. a portion of a feeder. As a comparison, the Company assesses any load connection above 7 kW to ensure the connection is reliable for the customer and does not degrade the service provided to any other customer. This acknowledges that small changes in load can have an effect at a very local level.

The ability to properly assess results from such a pilot and answer questions related to how a project can be brought to scale or how to quantify the benefits also relies on the specific program design. The Company also acknowledges that testing whether the technology is reliable is something the pilot might well be able to do. Further, following a determination that the technology is reliable, one might be able to say that the technology has the potential to defer T&D upgrades; however, that conclusion can only be applied to a very small set of circumstances and where all the many other variables are the same.

Information Request AG-ES-1-8

Has Eversource, at any prior occasion, raised or noted with the Energy Efficiency Advisory Council, the Council's Demand Response Subcommittee, or the Demand Savings Group, a concern regarding an unmet need for coordination between the Compact and Eversource in the context of the Compact's proposed thermal energy storage demonstration offerings? If so, please reference where such concerns were raised. If not, please explain why the concerns were not raised.

Response

The Company became aware of the Compact's intention to propose a thermal storage demonstration in late 2016. At that time, the Company did not have sufficient project details to fully assess the proposal. It was not until the February 2017 Demand Reduction Subcommittee meeting that the Company became aware of the Compact's intention to use the thermal storage assets in a coordinated manner to impact transmission and distribution infrastructure and specifically target grid facing benefits. The subsequent proposal to the full Energy Efficiency Advisory Council and filing with the Department followed quickly thereafter on March 28, 2017. The Company did not initially raise a concern with the Energy Efficiency Advisory Council, the Council's Demand Response Subcommittee, or the Demand Savings Group because the Company is generally supportive of testing this technology to determine potential customer benefits, and the Company has worked collaboratively with its fellow Program Administrators on investigating this type of technology. However, subsequent to the Compact's filing with the Department, the Company's distribution planning and engineering staff was able to devote resources to review the potential impact of the Compact's proposed projects on the Company's transmission and distribution system (based on the Compact's proposed grid-focused tests and analyses) and determined that presenting their concerns to the Department was in the best interests of its customers.

Information Request AG-ES-1-9

Please refer to Exhibit ES-JDT-1, p. 11-12. Is it the Company's position that all behind-the-meter thermal storage facilities require this level of Eversource coordination to operate and allow Eversource to monitor the causal transmission and distribution effects? Why or why not?

Response

No. Please refer to the responses to Information Requests AG-ES-1-6 and 1-7. The level of coordination referenced by the Company is required if a facility interconnected to the Company's distribution system is designed to potentially affect the distribution system. This is in contrast to a standard energy efficiency program that is targeting overall energy reduction or peak capacity reduction at the ISO-NE level. Once a project is attempting to affect the T&D system, over which Eversource has ultimate responsibility, rather than reducing overall quantities at the highest level, a high level of coordination is necessary since no other entity has adequate knowledge or information to make informed decisions about such potential distribution system effects.

Information Request AG-ES-1-10

Please refer to Exhibit ES-JDT-1, p. 16. How does the Company intend to share the results of its proposed demand response demonstration project with other Program Administrators and the Demand Savings Group? Please indicate whether any project data will not be accessible?

Response

The Company intends to share the results of its proposed demonstration projects through project updates at the Demand Reduction subcommittee meetings similar to the updates given by National Grid and Cape Light Compact at the February 23rd, 2017 Demand Reduction subcommittee meeting. These meetings are publically noticed and open to the public.

Individual project data is not released in order to protect customer confidentiality. However, the Company has contracted with an independent third-party evaluator to evaluate its demonstration projects and final evaluations will be made public and posted on the Energy Efficiency Advisory Committee website. Data will be aggregated and anonymized. This is in line with current evaluation practices that cover the existing energy efficiency portfolio.

Information Request AG-ES-1-11

Please refer to Exhibit ES-JDT-1, p. 16. Will the Company share the results of its proposed demand response demonstration project and all associated data publicly with other interested stakeholders?

Response

Please see the Company's response to Information Request AG-ES-1-10.

Information Request AG-ES-1-12

Please refer to Exhibit ES-JDT-1, p. 12, which states, "At the regional level, large amounts of load, even if it is aggregated over a large area, can result in disturbances on the transmission system that require immediate action to correct." In the context of these remarks:
a) How does the Company define "large amounts of load" and "large area?"
b) Is the expected level of load reduction impacts associated with the Compact's thermal storage offering, estimated in the range of 100-250 kW (see Exh. CLC-MTD, Attachment B, p. 12 of 19), considered a "large amount of load?"

Response

a) The terms "large amount of load" and "large area" are defined on a case-by-case basis relative to other factors such as system voltage and the design of the system serving a particular area. For example, the entire outer Cape is served by one transmission line and has a relatively low system demand. Metro Boston on the other hand is smaller geographically, has a far greater system demand and is served by a number of transmission lines. What is considered "large" in these two areas is quite different.

b) Please see the response to Information Request AG-ES-1-6.

Information Request AG-ES-1-13

Please refer to Exhibit ES-JDT-1, p. 12, which states, "At the local feeder level, a large drop in load can conflict with real time system operations such as feeder switching where operators may be dispatching other resources simultaneously." In the context of these remarks:
a) How does the Company define "large drop in load?"
b) Is the expected level of load reduction impacts associated with the Compact's thermal storage offering, estimated in the range of 100-250 kW (see Exh. CLC-MTD, Attachment B, p. 12 of 19), considered a "large drop in load?"

Response

As described in the response to Information Request AG-ES-1-12, the term "large" is dependent on the specifics of how the program is designed. By way of example: 250 kW equates to approximately 35 amps on the 4kV distribution system. A typical 4 kV station could have 2 feeders serving an area. Assume each of these feeders has a normal rating of 300 amps, an emergency rating of 400 amps, and are loaded to 65% (195 amps each). Assume that an animal comes into contact with one of the feeder breakers and causes that breaker to fail. Knowing the loading on the feeders, the system operator would then attempt to pick up both feeders from the one feeder remaining is service. The operator can do this knowing the resulting loading on remaining feeder is 390 amps (195x2), still within the emergency rating. In this scenario, an addition of 35 amps would push the feeder over its rating jeopardizing the safety and reliability of the circuit.

As previously acknowledged, while the numbers proposed by the CLC are relatively small, there are always risks that need to be managed as illustrated by the example. These types of scenarios occur and decisions are made by system operators every day.