



November 4, 2014

VIA ELECTRONIC FILING

The Honorable Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
Room 1A-East, First Floor
888 First Street, NE
Washington, DC 20426

**Re: ISO New England Inc., Docket No. ER15-
Informational Filing for Qualification in the Forward Capacity Market
COMMENT DUE DATE OF NOVEMBER 19, 2014 PURSUANT TO THE
TARIFF**

Dear Secretary Bose:

Pursuant to Section III.13.8.1 of the ISO New England Transmission, Markets and Services Tariff (the “Tariff”),¹ ISO New England Inc. (the “ISO”) hereby submits privileged and public, (*i.e.*, redacted copy) versions of this informational filing for qualification in the Forward Capacity Market (“Informational Filing”) for the 2018-2019 Capacity Commitment Period. The Tariff allows parties to comment on or challenge determinations provided in the Informational Filing. Pursuant to Tariff Section III.13.8.1(b), any comments or challenges to the ISO’s determinations must be filed with the Federal Energy Regulatory Commission (“FERC” or “Commission”) no later than 15 days from the date of this Informational Filing. **Accordingly, the ISO requests that the Commission issue a notice requiring that any comments or protests be filed on or before November 19, 2014.**

In accordance with Tariff Section III.13.8.1(b), if the Commission does not issue an Order **within 75 days** after the date of this filing directing otherwise, the determinations described in the Informational Filing and any elections pursuant to Tariff Section III.13.1.2.3.2.1.1 shall be used in conducting the ninth Forward Capacity Auction (“FCA”), which will be held beginning on February 2, 2015, and will procure the needed capacity for the six state New England Control Area for the 2018-2019 Capacity Commitment Period. This Informational Filing details determinations made by the ISO with respect to that FCA and provides supporting documentation for such determinations.

¹ Capitalized terms used but not otherwise defined in this filing have the meanings ascribed thereto in the Tariff..

Honorable Kimberly D. Bose

November 4, 2014

Page 2

For all de-list bids rejected by the Internal Market Monitor (“IMM”), privileged Attachment E of this Informational Filing includes the IMM’s determination of the resource’s de-list bid.² Participants were notified of the IMM’s final determinations in their Qualification Determination Notifications (“QDNs”), which were provided to Lead Market Participants on September 26, 2014.

With respect to de-list bids, no later than seven calendar days after the issuance of the QDN by the IMM, a resource may elect to submit revised prices for the Static De-list Bid for the resource at prices equal to or less than the IMM’s determined bid price. A resource making such an election is prohibited from challenging the IMM’s determinations regarding the resource’s net risk-adjusted going forward costs and opportunity costs.³ If no such election is made, the Existing Generating Capacity Resource will be entered into the FCA as described in section III.13.2.3.2(c) (that is, as if no Static De-list Bid had been submitted) or as otherwise directed by the Commission.⁴

I. COMMUNICATIONS

The ISO is the private, non-profit entity that serves as the regional transmission organization (“RTO”) for New England. The ISO operates and plans the New England bulk power system and administers New England’s organized wholesale electricity market pursuant to the Tariff and the Transmission Operating Agreement with the New England Participating Transmission Owners.

All correspondence and communications in this proceeding should be addressed to the undersigned as follows:

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II. BACKGROUND AND OVERVIEW

² Section III.13.1.2.3.2.1.1 of the Tariff addresses the IMM’s review of de-list bids.

³ Section III.13.1.2.3.2.1.1.2(c) of the Tariff

⁴ *Id.*

Honorable Kimberly D. Bose

November 4, 2014

Page 3

The Tariff requires the ISO to make a filing setting forth specific information related to the FCA.⁵ The Informational Filing includes the locational capacity requirements of the ninth FCA based upon the topology of the transmission system, and specifically which Capacity Zones are to be modeled in the auction. The Tariff also requires the ISO to identify the multipliers applied in determining the appropriate Capacity Values for Demand Resources, as well as specify the resources accepted or rejected in the qualification process for participation in the ninth FCA.

The ISO has reviewed all resources participating in the ninth FCA. These include Existing and New Generating Capacity Resources, Import Capacity Resources and Demand Resources.⁶⁷ Pursuant to the Tariff, the Informational Filing must include the results of the IMM's review of certain offers and bids, *e.g.*, Existing Capacity Resources that seek to permanently or statically de-list above \$3.94/kW-month,⁸ and new resources that have requested to submit offers below the relevant Offer Review Trigger Prices ("ORTPs").⁹ Further, the Tariff sets forth a specific process for review of the offers and bids submitted by various types of resources. This filing is the ISO's fulfillment of these requirements.

The Tariff requires the Informational Filing to include the transmission interface limits used in the process of selecting which Capacity Zones will be modeled in the ninth FCA; which existing and proposed transmission lines the ISO determines will be in service by the start of the 2018-2019 Capacity Commitment Period; the expected amount of installed capacity in each modeled Capacity Zone during the 2018-2019 Capacity Commitment Period; the Local Sourcing Requirement for each modeled import-constrained Capacity Zone; and the Maximum Capacity Limit for each modeled export-constrained Capacity Zone.

In accordance with Tariff Section III.12.4, the ISO will model four Capacity Zones in the ninth FCA: Southeastern Massachusetts/Rhode Island ("SEMA/RI"), Connecticut, Northeastern Massachusetts/Boston ("NEMA/Boston") and Rest of Pool. The Rest of Pool Capacity Zone includes Maine, Western/Central Massachusetts ("WCMA"), New Hampshire and Vermont. As in previous auctions, the NEMA/Boston and Connecticut zones have been determined to be import-constrained zones by the Capacity Zone objective

⁵ Section III.13.8.1(a) of the Tariff.

⁶ Demand Response Resource Sub-types include: On Peak Demand Resource ("On Peak"), Seasonal Peak Demand Resource ("Seasonal Peak"), Demand Response Capacity Resource ("DRCR" or "RTDR") and Real-time Emergency Generation ("RTEG").

⁷ Except where noted otherwise, values in this filing are represented in FCA Qualified Capacity ("FCA QC") megawatts. Resources were required to submit Financial Assurance by October 27, 2014. Resources that have not submitted Financial Assurance by this deadline have five Business Days (5) to cure their Financial Assurance, but due to timing, resources that have failed to pay Financial Assurance by this deadline are included in this filing.

⁸ Section III.13.1.2.3.2.1.1 of the Tariff.

⁹ Section III.13.1.1.2.2.3 of the Tariff.

Honorable Kimberly D. Bose

November 4, 2014

Page 4

criteria and, for the first time, the combined zones of Southeast Massachusetts and Rhode Island SEMA/RI¹⁰ have also been determined to be import-constrained by the Capacity Zone objective criteria and will be modeled as a single Capacity Zone in the 2018-2019 Capacity Commitment Period's FCA. Accordingly, Connecticut, SEMA/RI, and NEMA/Boston will be modeled as import-constrained Capacity Zones. The ISO also determined that there are no export-constrained Capacity Zones for the 2018-2019 Capacity Commitment Period and, therefore, Maximum Capacity Limits were not established for the 2018-2019 Capacity Commitment Period's FCA.¹¹

The Tariff also requires that the Informational Filing include the loss multiplier used to derive the Capacity Value for Demand Resources.¹² For the ninth FCA, this multiplier is 1.08.

Specific statistics related to the ninth FCA are as follows:¹³

- The Installed Capacity Requirement ("ICR") for the 2018-2019 Capacity Commitment Period is 35,142 MW. After accounting for 953 MW of Hydro Quebec Interconnection Capability Credits ("HQICCs"), 34,189 MW remain to be procured in the FCA. The ISO has submitted the 2018-2019 ICR for Commission review in another proceeding.¹⁴
- Qualified Existing Capacity Resources for the 2018-2019 Capacity Commitment Period consist of 29,727 MW¹⁵ from Existing Generating Capacity Resources (intermittent and non-intermittent); 89 MW from Existing Import Capacity

¹⁰ The Commission accepted the SEMA/RI zonal boundary in a letter order dated May 29, 2014 in Docket No. ER14-1939-000.

¹¹ Maximum Capacity Limits were calculated to determine whether there are export-constrained Capacity Zones for the 2018/2019 Capacity Commitment Period. The ISO found that there are no export-constrained zones and, for that reason, there was no need to establish Maximum Capacity Limits for the 2018/2019 Capacity Commitment Period.

¹² Pursuant to Section III.13.8.1(a)(v) of the Tariff.

¹³ Values in this Transmittal Letter are rounded to eliminate decimals. Resources in the attachments are rounded to three decimal places.

¹⁴ *ISO New England Inc.*, Filing of Installed Capacity Requirement, Hydro Quebec Interconnection Capability Credits and Related Values for the 2018-2019 Capacity Commitment Period, filed on November 4, 2014 ("2018-2019 ICR Filing").

¹⁵ Consistent with how resources are treated within the FCA, this value, and all other Existing Generating Capacity values shown within this filing, includes adjustments for significant increases in capacity qualified through the New Capacity Qualification Process pursuant to Section III.13.1.2.2.5 of the Tariff. Significant Increases can be found in Attachment F. Due to a change in a resource's Interconnection Agreement, the qualified summer and winter capacity values illustrated in this filing will be reduced by approximately 2 MW prior to the commencement of the ninth FCA.

Resources;¹⁶ and 2,740 MW from Existing Demand Resources,¹⁷ totaling 32,555 MW of Existing Capacity.¹⁸

- A total of 8,301 MW of de-list bids were submitted for the ninth FCA. Subsequently, 97 MW of these de-list bids were later converted into Non-Price Retirement Requests. In total, 41 existing resources submitted Non-Price Retirement Requests.¹⁹ In addition, participants who submitted de-list bids are entitled to withdraw those bids or reduce the bids following receipt of the QDN. Attachment E of this Informational Filing provides details regarding post QDN reductions or withdrawals.
- Approximately 8,547 MW²⁰ of new resources were qualified.²¹

Overall, the qualification process for the ninth FCA resulted in approximately 8,547 MW²² of new resources, and 32,555 MW of existing resources competing to provide 34,189 MW, after accounting for HQICCs, to the New England control area for the 2018-2019 Capacity Commitment Period.

III. FILING CONTENTS AND REQUEST FOR PRIVILEGED TREATMENT

This Informational Filing includes the following materials:

- This transmittal letter – PUBLIC
- Attachment A: Existing Transmission Lines – PUBLIC
- Attachment B: Proposed Transmission Lines – PUBLIC

¹⁶ Section IV.C.1 of this Transmittal Letter.

¹⁷ *Id.*

¹⁸ Non-Price Retirements are represented as Existing Qualified Capacity Resources. A resource qualified to participate in the FCA may change ownership on a monthly boundary. Changes in Lead Market Participant effective after the creation of this filing letter may not be reflected in the applicable numbers in this Filing and the attachments.

¹⁹ Section IV.C.1.b of this Transmittal Letter.

²⁰ Summer Qualified Capacity.

²¹ As of the issuance of the Qualification Determination Notifications. New Real-Time Emergency Generation Projects are represented as New in the megawatt totals as well as Attachment D, even though these resources are treated as existing capacity in the auction.

²² Summer Qualified Capacity.

- Attachment C: Existing Generating, Import, and Demand Resource Capacity²³ – PUBLIC
- Attachment D: New Generating, Import, and Demand Resource Capacity – CONTAINS PRIVILEGED INFORMATION – DO NOT RELEASE
- Attachment E: Summary of All De-List Bids Submitted – CONTAINS PRIVILEGED INFORMATION – DO NOT RELEASE
- Attachment F: Significant Increases – CONTAINS PRIVILEGED INFORMATION – DO NOT RELEASE
- Attachment G: Major Elements In The Determination of Expected Net Revenues – Generation – CONTAINS PRIVILEGED INFORMATION – DO NOT RELEASE
- Attachment H: Major Elements In The Determination of Expected Net Revenues - Demand Resources – CONTAINS PRIVILEGED INFORMATION – DO NOT RELEASE
- Attachment I: Notifications sent to resources that were not qualified to participate in the FCA – CONTAINS PRIVILEGED INFORMATION – DO NOT RELEASE
- Attachment J: Methodology used by IMM in establishing an alternative de-list bid value when the IMM rejected some or all of the components of the participant-submitted de-list bids [NOTE: This document was included as attachment B to each QDN letter of rejected de-list bids by the IMM.] - PUBLIC

Section III.13.8.1 (a) of the Tariff requires the ISO to file the determinations in Sections III.13.8.1(a) (vi-viii) as confidential. These determinations are provided in Attachments D-H. Additionally, Attachment I includes notifications sent to resources that were not qualified to participate in the FCA. The notifications only went to the Project Sponsor and include a detailed explanation of the ISO's determination not to qualify a particular resource, which includes confidential information.²⁴ Therefore, the ISO requests that the Commission provide privileged treatment to Attachments D through I, as indicated above.

²³ Included in this filing are Existing Capacity Resources that cleared as Out-Of-Market Resources in the sixth and/or seventh FCA. The summer and winter qualified capacity associated with these resources has been adjusted accordingly.

²⁴ Because the information is commercially sensitive, the Commission has granted the ISO's requests to treat this information as confidential in Informational Filings for previous FCAs. *See, Order Accepting Informational Filing*, 138 FERC ¶ 61,196 (2012). This information is also confidential pursuant to Section III.13.8.1 (a) of the Tariff.

The privileged Attachments have been marked: **“Contains Privileged Information - Do Not Release.”** The ISO is filing one version of the Informational Filing that includes the privileged information, which should not be released to the public. A public, redacted version of this Informational Filing, which does not include the privileged attachments, is also filed herewith.

Pursuant to Section III.13.8.1 (a) of the Tariff, the ISO will publish the confidential information in Attachments D-H, no later than 15 days after the ninth FCA.

IV. INFORMATIONAL FILING

A. Inputs Used to Model the FCA

Tariff Section III.13.8.1(a)(i-iv) requires the ISO to address in the Informational Filing the following inputs used to model the FCA: the Capacity Zones modeled in the FCA; the transmission interface limits used to model the Capacity Zones in the FCA; the existing and proposed transmission lines that will be in service by the start of the Capacity Commitment Period; the expected amount of Installed Capacity in each modeled Capacity Zone; the Local Sourcing Requirement for each modeled import-constrained Capacity Zone; and the Maximum Capacity Limit for each modeled export-constrained Capacity Zone.

Contemporaneously with this filing, the ISO is filing its annual ICR Filing with the Commission in which it submits for approval the 2018-2019 Capacity Commitment Period values for the ICR and the Local Sourcing Requirements.²⁵ Given that the ICR Filing provides a comprehensive explanation of these values, the ISO does not repeat in detail those findings here.

The proposed ICR for the New England region for the 2018-2019 Capacity Commitment Period is 35,142 MW. The net amount of capacity to be purchased in the FCA to meet the ICR, after deducting 953 MW of interconnection capability credit associated with the HQICCs, is 34,189 MW (“NICR”).²⁶

1. Existing and Proposed Transmission Lines and Transmission Interface Limits

Pursuant to Section III.13.8.1(a)(iii) of the Tariff, the ISO is required to provide the existing and proposed transmission lines that the ISO determines will be in service by the start of the 2018-2019 Capacity Commitment Period. Section III.12.6.2 of the Tariff establishes the initial threshold for transmission projects to be considered in service. Under

²⁵ See footnote 15 *supra*.

²⁶ NICR stands for Net Installed Capacity Requirement.

this threshold, transmission projects submit critical path schedules, and must demonstrate that they are meeting certain milestones in the critical path schedule. Section III.12.6.2 of the Tariff also requires a statement from a company officer of the relevant transmission owner verifying that the critical path schedule submitted to the ISO is achievable.

For transmission projects that satisfy the threshold specified under Section III.12.6.2 of the Tariff, the ISO considers additional factors set forth in Section III.12.6.3 to determine if the project can be included in the network model for the relevant Capacity Commitment Period. The ISO has determined that the existing and proposed transmission lines listed in Attachments A and B will be in service by the start of the Capacity Commitment Period associated with the ninth FCA.

The Informational Filing also identifies the transmission interface limits used in the process of determining the Local Sourcing Requirements and the Maximum Capacity Limit used in selecting the Capacity Zones modeled in the FCA.²⁷ Pursuant to Section III.12.5 of the Tariff, the ISO determines the transmission interface limits using network models that include existing and proposed transmission lines that the ISO concludes will be in service no later than the first day of the relevant Capacity Commitment Period. The ISO has calculated the transmission interface limits using a model that includes the existing and proposed transmission lines included in Attachments A and B. The following transmission interface limits were used in the process of calculating the Local Sourcing Requirements: the transmission interface limit from Maine to New Hampshire of 1,900 MW; the transmission interface limit of the Boston import area of 4,850 MW, the transmission interface limit of the SEMA/RI import area of 786 MW, and the transmission interface limit of the Connecticut import area of 2,950 MW. The transmission interface limits were determined consistent with Section 4 of ISO New England Planning Procedure No. 3 - Transmission Transfer Capability.

2. Capacity Zones

In accordance with Tariff Section III.12.4, the ISO will model four Capacity Zones in the ninth FCA: SEMA/RI, Connecticut, NEMA/Boston and Rest of Pool. There are no export-constrained Capacity Zones for the ninth FCA. Connecticut, SEMA/RI and NEMA/Boston will be modeled as import-constrained Capacity Zones. These four Capacity Zones will also be modeled in subsequent reconfiguration auctions and Capacity Supply Obligation Bilaterals.

3. Local Sourcing Requirements and Maximum Capacity Limit

The Tariff requires the ISO to provide the Local Sourcing Requirement and Maximum Capacity Limit for each modeled import-constrained and export-constrained

²⁷ Section III.13.8.1(a)(ii) of the Tariff.

Capacity Zone.²⁸ These values are used to determine the amount of capacity needed in each Load Zone. The Local Sourcing Requirement is the minimum amount of capacity that must be electrically located within an import-constrained Load Zone.²⁹ Import-constrained Load Zones are areas within New England that may not have adequate local resources and transmission import capability to reliably serve local demand. The ICR Filing describes the methodology used to calculate the Local Sourcing Requirements.³⁰ The 2018-2019 Capacity Commitment Period Local Sourcing Requirements for the Connecticut, SEMA/RI and NEMA/Boston Load Zones are 7,331 MW, 7,479 MW and 3,572 MW, respectively.³¹

The Maximum Capacity Limit is the maximum amount of capacity that can be procured in an export-constrained zone to meet the ICR.³² As explained in the ICR Filing, for the ninth FCA, there are no export constrained Capacity Zones.³³ Accordingly, no Maximum Capacity Limit was established for the ninth FCA.

4. The External Interface Limits

The ISO has calculated the following external interface capabilities to be used for the purpose of calculating tie benefits and in the conduct of the ninth FCA: for Hydro-Quebec to New England interfaces, the Highgate import capability is 200 MW and the HQ Phase II import capability is 1,400 MW; for the New Brunswick to New England interface, the import capability is 700 MW; and for the New York to New England AC interface, the import capability is 1,400 MW and the direct current Cross Sound Cable import capability is zero MW. These values are the same as those used in the calculation of Tie Reliability Benefits, for determining the ICR, and were reviewed as part of the stakeholder process.

After accounting for the following Tie Reliability Benefits; 148 MW from Quebec over Highgate; 953 MW from Quebec over the HQ Phase II interface; 523 MW from New Brunswick over the New Brunswick to New England interface; and 346 MW from New York over the New York to New England AC interfaces, the maximum amount of import capacity resources that can be purchased over each interface without exceeding the external interface capabilities is 52 MW for the Highgate Interface; 447 MW for the HQ Phase II Interface; 177 MW for the New Brunswick to New England interface; 1,054 MW for the New York to New England AC interfaces, and 0 MW for the Cross Sound Cable.³⁴ For the ninth Forward Capacity Auction, there were no Export De-List Bids reduced or limited by export limits from New England to a neighboring Control Area.

²⁸ Section III.13.8.1(a)(iv) of the Tariff.

²⁹ Section III.12.2 of the Tariff.

³⁰ ICR Filing at pp. 14-16.

³¹ *Id.* at p. 2.

³² Section III.12.2 of the Tariff.

³³ ICR Filing at pp. 6-7.

³⁴ Pursuant to Section III.12.10 of the Tariff.

B. Capacity Value of Demand Resources

Section III.13.8.1(a)(v) of the Tariff requires that the Informational Filing provide the multipliers applied in determining the Capacity Value of a Demand Resource, as described in Section III.13.7.1.5.1. For the ninth FCA, the multiplier is 1.08, which represents avoided peak transmission and distribution losses.

C. List of Resources Accepted and Rejected

Section III.13.8.1(a)(vi) of the Tariff requires that the Informational Filing list the resources that are accepted and rejected in the qualification process to participate in the FCA. Further, Section III.13.8.1(a)(vii) requires the ISO to provide the IMM's determinations regarding requests from new capacity resources to submit prices in the FCA below the relevant ORTP, including information regarding each of the elements considered in the IMM's determination (other than revenues from ISO-administered markets) and whether that element was included or excluded in the determination of whether the offer is consistent with the resource's long run average costs net of expected revenues other than capacity revenues. Additionally, Section III.13.8.1(a)(viii) requires the IMM to provide an explanation of reasons for rejecting de-list bids.³⁵ Finally, Section III.13.8.1(a) provides that the determinations in Sections III.13.8.1 (a)(vi-viii) be filed as privileged with the Commission.

Lead Market Participants for existing resources were notified of their resource's initial Qualified Capacity on May 9, 2014. Each Project Sponsor or Lead Market Participant of a potential new capacity resource was notified of its QDN on September 26, 2014. Copies of the QDNs for resources that were not fully qualified to participate in the auction and for resources with rejected IMM de-list bids and offers below the relevant ORTP are attached hereto as privileged Attachment I. Because the notifications contain commercially sensitive information, the ISO has requested that the Commission treat the information in Attachment I as privileged. Summary explanations for the rejections are provided in privileged Attachments D, G and H, which will be made public no later than 15 days after the FCA.³⁶

1. Existing Resources

An Existing Capacity Resource may be an Existing Generating Capacity Resource, an Existing Import Capacity Resource, or an Existing Demand Resource. A total of 32,555 MW of Existing Capacity Resources qualified for the ninth FCA; representing 29,727 MW from Existing Generating Capacity Resources, 89 MW from Existing Import Capacity

³⁵ Pursuant to Section III.13.2.5.2.5 of the Tariff, all de-list bids are also subject to reliability review.

³⁶ Section III.13.8.1 (a).

Resources, and 2,740 MW from Existing Demand Resources. Attachment C shows the Existing Capacity Resources qualified for the ninth FCA.

a. Existing Resources That Submitted De-List Bids

Market Participants with Existing Capacity Resources may opt out of the capacity market by submitting a de-list bid. For the ninth FCA, a total of 8,301 MW of pre-auction de-list bids were submitted Pursuant to Section III.13.1.2.3.2 of the Tariff, the IMM must review Export Bids and Static and Permanent De-list Bids submitted by Market Participants above the Dynamic De-list Bid Threshold of \$3.94/kW-month.³⁷ For each participant that is a pivotal supplier, the IMM must determine if the de-list bid submitted by the participant is consistent with the four cost components comprising a de-list bid: (1) the participants' net going forward costs for the resource; (2) the participant's reasonable expectations of the resource's Capacity Performance Payments; (3) the participant's reasonable risk premium; and (4) opportunity costs.

In April and May 2014, the IMM held multi-day de-list bid review and ORTP training for Market Participants. De-list bids for existing resources and offers below ORTPs for new resources were due by mid-June 2014. The IMM reviewed each de-list bid and the supporting cost information. The IMM then engaged in an iterative review process, by first inviting participants to present their submissions in person, then evaluating submissions, and sending participant-specific questions and requests for additional information in July and August. The IMM issued preliminary determinations in mid-September, and then incorporated the additional feedback from participants into the final determinations where possible. Participants were notified of the IMM's final determinations in QDNs issued on September 26, 2014.

If the IMM determined that the de-list bid is consistent with the resource's net going forward costs, reasonable expectation of the resource's Capacity Performance Payments, reasonable risk premium assumptions, and reasonable opportunity costs, the bid will be entered into the FCA as described in Section III.13.2.3.2.(b) of the Tariff. If the IMM determined that the participant's de-list bid is inconsistent with reasonable estimates of any of those four elements of the de-list bid, and if the participant is a pivotal supplier, as defined in Section III.13.1.2.3.2 of the Tariff, then the de-list was rejected and replaced with the IMM's determined de-list bid. For the ninth FCA, all participants with existing resources are pivotal suppliers and are therefore subject to review by the IMM.

A participant that has had its de-list bid rejected by the IMM may elect to accept the IMM determined bid, to submit revised prices for the de-list bid for the resource at prices equal to or less than the IMM's determined bid price, or to withdraw the de-list bid. A participant making any of these elections is prohibited from challenging the IMM's determined de-list bid. If no such election is made, the participant may challenge the

³⁷ See Sections III.13.1.2.3.2.1.1. and III.13.1.4.1.1. of the Tariff.

IMM's determination and propose a different de-list bid detailing the bid and its justification based on the resource's net going forward costs, reasonable expectations about the resource's Capacity Performance Payments, reasonable risk premium assumptions, and reasonable opportunity costs pursuant to Section III.13.8.1(b) of the Tariff.

Attachment J contains the approach and methodology followed by the IMM in establishing an alternative de-list bid value when the IMM rejected some or all of the components of the participant-submitted de-list bids. This document was included as attachment B to each QDN letter of rejected de-list bids by the IMM.

i. Accepted De-List Bids

Section III.13.8.1(a) of the Tariff requires the ISO to file the de-list bids accepted by the IMM as confidential. Accordingly, the IMM accepted de-list bids are included in privileged Attachment E. In accordance with Sections III.13.8.1(a), the ISO will make this Attachment public no later than 15 days after the FCA.

ii. Rejected De-List Bids

Section III.13.8.1(a) of the Tariff requires the ISO to file the de-list bids rejected by the IMM as confidential. Accordingly, the IMM rejected de-list bids are included in privileged Attachment E.

b. Non-Price Retirements

A Non-Price Retirement Request is a binding request to retire the capacity of a resource and supersedes any prior de-list bid for the same Capacity Commitment Period.³⁸ Approval of Non-Price Retirement Requests is subject to reliability review under the Tariff.³⁹ During the qualification process for the 2018-2019 Capacity Commitment Period, 41 Non-Price Retirement Requests for approximately 464 MW were submitted to the ISO. See the following link for details: <http://www.iso-ne.com/system-planning/resource-planning/nonprice-retirement>.

2. New Resources

A New Capacity Resource may be a New Generating Capacity Resource, a New Import Capacity Resource or a New Demand Resource. All Project Sponsors of new resources must have submitted a New Capacity Show of Interest Form, and, at a later date, a New Capacity Qualification Package, in order to be eligible to participate in the FCA. A new resource is required to demonstrate in the New Capacity Show of Interest Form and

³⁸ Pursuant to Sections III.13.1.2.3.1.5 and III.13.1.4.1.1 of the Tariff, a resource may retire a portion of its capacity.

³⁹ Section III.13.2.5.2.5 of the Tariff.

the New Capacity Qualification Package that it can produce or curtail a specific megawatt value for the relevant Capacity Commitment Period.

a. Accepted New Resources

Attachment D, which pursuant to Section III.13.8.1(a) of the Tariff is filed as privileged, lists the new Generating, Import and Demand Resources qualified to participate in the ninth FCA. Resources that were qualified but withdrew by the relevant deadline are excluded.⁴⁰ In addition, for those resources that have been qualified as incremental new capacity, only the incremental megawatt amount is shown. Pursuant to the Tariff, new Real-Time Emergency Generation resources are treated as Existing Capacity Resources for purposes of running the FCA.⁴¹

Not included in the values in Attachment D is an additional 5 MW of capacity that was inadvertently not qualified due to an update in the ISO's evaluation tool. Due to the timing of the update, the ISO was not able to include the 5 MW of capacity in the QDNs issued to these resources on September 26, 2014. Accordingly, the ISO requests that the Commission allow the ISO to qualify these resources at the additional 5 MW capacity value. More detail on these resources is included in Attachment D. If the Commission approves the new qualification values for these resources specified in Attachment D, the affected resources will need to pay the FCM deposit for the additional values, along with the remaining financial assurance, no later than January 16, 2015.

b. Rejected New Resources

The ISO undertook a detailed analysis of each project to ascertain whether it met all of the qualification criteria for the ninth FCA. This analysis involved a careful review of the interconnection of the resource and associated transmission upgrades that would be necessary to qualify a Generating Capacity Resource and careful review of Project Descriptions, Measurement and Verification Plans, Customer Acquisition Plans, and, Funding Plans. The ISO provided guidance to Market Participants and publicly posted the deadline in advance of the New Capacity Qualification Deadline. In accordance with Tariff Section III.13.1.1.2.3, the ISO worked in consultation with the applicable Transmission Owner in reaching each determination involving that Transmission Owner's assets. Similarly, the ISO consulted with Demand Resource Market Participants and sought to ascertain clarity on project submittals where needed.

As a general matter, several participants have had the non-commercial portion of their existing Demand Resources terminated for failing to meet Critical Path Schedules. Many of these same participants also sought to qualify additional capacity

⁴⁰ Section III.13.1.1.2 of the Tariff.

⁴¹ Section III.13.1.4.1.3 of the Tariff.

even though they failed to deliver capacity from their existing Demand Resource projects. As a result, these proposed demand resources were denied qualification of the full amount of their proposed projects because the participant did not sufficiently demonstrate that the resources could be developed on top of existing monitored projects and their capability of delivering new capacity to the system.

Section III.13.8.1 (a) of the Tariff requires the ISO to file, as confidential, resources rejected in the qualification process, with the exception of new resources rejected due to the overlapping interconnection impacts analysis. Accordingly, rejected new resource projects are provided in privileged Attachment D. New resources rejected due to the overlapping interconnection impact analysis are described below.

Exelon Generation Company, LLC.

The Everett Peaker - 345 kV project requested to be qualified with a summer Qualified Capacity of 194.800 MW and requested winter Qualified Capacity of 205.100 MW in the NEMA/Boston Load Zone. The initial interconnection analysis, including the analysis of overlapping interconnection impacts, determined several transmission elements to be overloaded after the addition of the Everett Peaker - 345 kV project. The ISO has determined that the upgrades required to eliminate these overloads cannot be reasonably expected to be completed by the start of the 2018-2019 Capacity Commitment Period.

The Everett Peaker - 115 kV project requested to be qualified with a summer Qualified Capacity of 194.800 MW and requested winter Qualified Capacity of 205.100 MW in the NEMA/Boston Load Zone. The initial interconnection analysis, including the analysis of overlapping interconnection impacts, determined several transmission elements to be overloaded after the addition of the Everett Peaker - 115 kV project. The ISO has determined that the upgrades required to eliminate these overloads cannot be reasonably expected to be completed by the start of the 2018-2019 Capacity Commitment Period.

Hawkes Meadow Energy, LLC.

The Hawkes Meadow Energy Station project requested to be qualified with a summer Qualified Capacity of 451.000 MW and requested winter Qualified Capacity of 481.000 MW in the NEMA/Boston Load Zone. The initial interconnection analysis, including the analysis of overlapping interconnection impacts, determined several transmission elements to be overloaded after the addition of the Hawkes Meadow Energy Station project. The ISO has determined that the upgrades required to eliminate these overloads cannot be reasonably expected to be completed by the start of the 2018-2019 Capacity Commitment Period.

The following new resource project in Maine was not qualified because the overlapping interconnection impact analysis determined that the addition of the project would overload the Orrington South interface. Due to the complexity of the transmission planning analyses necessary to fully identify the upgrades and the amount of additional transfer capability necessary to allow the new resource to qualify north of the Orrington South interface, the ISO determined that the upgrades are not expected to be in place prior to the start of the 2018-2019 Capacity Commitment Period. It is important to note that the resource did not request a preliminary overlapping interconnection impact analysis pursuant to Schedules 22 or 23 of the ISO Tariff (the Large/Small Generator Interconnection Procedures) to identify potential upgrades necessary for the resource to qualify for participation in the FCA.⁴² Resources that are not qualified to participate in the FCM may still be built and operated in the energy and other ancillary markets. In fact, several of the resources that have not been qualified for previous FCAs because of the Orrington South interface constraint, have nonetheless built their projects and are providing energy (but not capacity) to the ISO Control Area.

NextEra Energy Power Marketing, LLC.

The PineTree Landfill gas to energy project requested to be qualified with a summer Qualified Capacity of 0.800 MW in the Maine Load Zone. The overlapping interconnection impact analysis determined that the Orrington South interface would be overloaded after the addition of the PineTree Landfill gas to energy project. Due to the complexity of the transmission planning analyses necessary to fully identify the upgrades and the amount of additional transfer capability necessary to allow new resources to qualify north of the Orrington South interface, the ISO has determined that the upgrades are not expected to be in place prior to the start of the 2018-2019 Capacity Commitment Period.

c. Requested Prices below the relevant Offer Review Trigger Price

Pursuant to Section III.A.21.2 of the Tariff, the IMM reviews requests submitted by a new capacity resource to submit offers in the FCA below the ORTP for the applicable resource type, using an iterative process that follows the same timeline as the de-list bid review process. If the IMM determines that the requested offer price is inconsistent with the IMM's capacity price estimate, then the resource's New Resource Offer Floor Price will be set to a level that is consistent with the capacity price estimate, as determined by the IMM.⁴³ The IMM's capacity price estimate is derived by entering all relevant resource costs and non-capacity revenue data, as well as assumptions regarding depreciation, taxes, and discount rate into the capital budgeting model used to develop the relevant ORTP and calculating the break-even contribution required from the Forward Capacity Market to yield a discounted cash flow with a net present value of zero for the project.

⁴²Section 7.3 of Schedule 22 of the Open Access Transmission Tariff.

⁴³ Section III.13.A.21.2(b)(iv) of the Tariff.

Section III.13.8.1(a)(vii) requires the ISO to provide the IMM's determinations regarding requested offer prices below the relevant ORTP, including information regarding each of the elements considered in the IMM's determination (other than revenues from ISO-administered markets) and whether that element was included or excluded in the determination of whether the offer is consistent with the resource's long run average costs net of expected revenues other than capacity revenues (the IMM's capacity price estimate). Pursuant to Section III.13.8.1(a) of the Tariff, the IMM determinations regarding requested offers below the relevant ORTP and the information regarding each of the elements considered in the IMM's determination (other than revenues from ISO-administered markets) are filed as privileged in Attachments D, G and H. Section III.13.8.1(a) of the Tariff also requires the ISO to file the Generating Capacity Resource supply offers⁴⁴ and New Demand Resource offers evaluated by the IMM as confidential. Accordingly, the IMM evaluated New Generating Capacity Resources supply offers⁴⁵ and New Demand Resource offers are included in the privileged Attachments G and H. These attachments will be made public no later than 15 days after the FCA.⁴⁶

i. Renewable Technology Resources

Pursuant to Section III.13.1.1.1.7 of the Tariff, seven resources, totaling approximately 79 MW, were designated as Renewable Technology Resources. This total is less than the 200 MW Renewable Technology Resource maximum allowed, and therefore was not prorated. The ORTP for these resources has been updated to \$0/kW-Month.

V. SERVICE

The ISO has served via electronic mail the foregoing document and attachments upon the Governance Participants posted on the ISO's website at <http://www.iso-ne.com/committees/directory/default/committee.action?committeeId=1>.

VI. CONCLUSION

In this Informational Filing, the ISO has presented all of the information required by Section III.13.8.1 of the Tariff. The ISO has reviewed and set forth the characteristics of the transmission system, and Capacity Zones that will be modeled for the auction. The ISO has also calculated and presented a multiplier for Demand Resources as required by the Tariff. The ISO and the IMM, as appropriate, have reviewed a large number of offers and bids and determined which should qualify for the FCA pursuant to the Tariff, and have

⁴⁴ The megawatt values presented in this table are offered megawatts and may differ from the FCA Qualified Capacity megawatts found in Attachment D.

⁴⁵ The megawatt values presented in this table are offered megawatts and may differ from the FCA Qualified Capacity megawatts found in Attachment D.

⁴⁶ Section III.13.8.1(a) of the Tariff.

Honorable Kimberly D. Bose

November 4, 2014

Page 17

provided their determinations herein as required by the Tariff. Overall, 32,555 MW of existing and approximately 8,547 MW⁴⁷ of new resources have qualified to participate in the ninth FCA and will compete in the auction to meet a NICR of 34,189 MW.

Respectfully submitted,

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Attachments

⁴⁷ Summer Qualified Capacity.

Attachment A: Existing Transmission Lines

Attachment A

Existing Transmission Lines

See "ISO-New England Pool Transmission Facilities (2014) Final" available at:
http://www.iso-ne.com/static-assets/documents/trans/planning/ptf_cat/2014_ptf_catalog.pdf

Attachment B: Proposed Transmission Lines

Attachment B

Proposed Transmission Lines

See "2018-2019 FCM New Transmission Project Tracker" available at:
<http://www.iso-ne.com/markets-operations/markets/forward-capacity-market>

Attachment C: Existing Generating, Import, and Demand Resource Capacity

Attachment C
Existing Generating, Import, and Demand Resource Capacity

Summary of Existing Resources			
Type	Sub-type	Count	FCA Qualified Capacity (MW)
DR	On Peak	67	1,527.912
	RTDR	58	623.043
	RTEG	25	244.030
	Seasonal Peak	7	344.581
	DR Totals	157	2,739.566
Gen	Intermittent	308	903.208
	Non Intermittent	255	28,823.590
	Significant Increase	1	-
	Gen Totals	564	29,726.798
Import	Resource Backed	3	88.800
	Pool Backed	-	-
	Import Totals	3	88.800
TOTALS		724	32,555.164

Mutually Exclusive		
	Total Count	Final Qualified Capacity (MW)
New Resources	0	-
Existing Resources	0	-

Mutually Exclusive Resources are resources that will clear as either new or existing, but not both.

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
1	DR	ON_PEAK	12696	7.9 MW CHP Plant	Rest-of-Pool	Z.NEWHAMPSHIRE	10.800
2	DR	ON_PEAK	12694	Acushnet Company - Ball Plant II - Combined Heat and Power Project	SEMA-RI	Z.SEMASS	2.111
3	DR	ON_PEAK	12590	Ameresco CT DSM	Connecticut	Z.CONNECTICUT	5.387
4	DR	ON_PEAK	16687	Bangor Hydro OP	Rest-of-Pool	Z.MAINE	11.232
5	DR	ON_PEAK	12749	Bridgewater Correctional Complex Cogeneration	SEMA-RI	Z.SEMASS	1.412
6	DR	ON_PEAK	12822	Burlington Electric Department - On-Peak Efficiency	Rest-of-Pool	Z.VERMONT	5.622
7	DR	ON_PEAK	12597	Cambridge Energy Alliance-1	NEMA-Boston	Z.NEMASSBOST	0.653
8	DR	ON_PEAK	12598	Cambridge Energy Alliance-2	NEMA-Boston	Z.NEMASSBOST	4.736
9	DR	ON_PEAK	12705	Cape Light Compact Energy Efficiency Portfolio	SEMA-RI	Z.SEMASS	30.377
10	DR	ON_PEAK	9100	CL&P Connecticut Portfolio	Connecticut	Z.CONNECTICUT	10.967
11	DR	ON_PEAK	9127	CL&P CT Portfolio - 2007	Connecticut	Z.CONNECTICUT	0.000
12	DR	ON_PEAK	9115	CL&P Dist Gen 2007	Connecticut	Z.CONNECTICUT	0.293
13	DR	ON_PEAK	12583	CL&P Distributed Generation FCM 2010	Connecticut	Z.CONNECTICUT	34.232
14	DR	ON_PEAK	9109	Commercial Energy Efficiency	Rest-of-Pool	Z.VERMONT	0.085
15	DR	ON_PEAK	12584	Conservation and Load Management Program	Connecticut	Z.CONNECTICUT	5.863
16	DR	ON_PEAK	12779	CPLN CT On-Peak	Connecticut	Z.CONNECTICUT	1.004
17	DR	ON_PEAK	12832	CPLN MA NEMA OP	NEMA-Boston	Z.NEMASSBOST	6.561
18	DR	ON_PEAK	12835	CPLN MA SEMA OP	SEMA-RI	Z.SEMASS	0.230
19	DR	ON_PEAK	12838	CPLN MA WC OP	Rest-of-Pool	Z.WCMASS	7.692
20	DR	ON_PEAK	12843	CPLN RI OP	SEMA-RI	Z.RHODEISLAND	0.280
21	DR	ON_PEAK	12786	CSG Aggregation of DG and 24 hr lighting EE - NEMA1	NEMA-Boston	Z.NEMASSBOST	12.318
22	DR	ON_PEAK	12791	CSG Aggregation of DG and 24 hr lighting EE - SEMA1	SEMA-RI	Z.SEMASS	1.517
23	DR	ON_PEAK	12799	CSG Aggregation of DG and 24 hr lighting EE - WCMA1	Rest-of-Pool	Z.WCMASS	1.053
24	DR	ON_PEAK	12790	CSG Aggregation of DG and 24 hr lighting EE -RI	SEMA-RI	Z.RHODEISLAND	0.217
25	DR	ON_PEAK	12586	Efficiency Maine Residential Efficient Products	Rest-of-Pool	Z.MAINE	39.815
26	DR	ON_PEAK	35453	Efficiency Maine Trust	Rest-of-Pool	Z.MAINE	21.306
27	DR	ON_PEAK	16651	Efficiency Maine Trust Efficient Products	Rest-of-Pool	Z.MAINE	49.992
28	DR	ON_PEAK	37112	Efficiency Maine Trust FCA6	Rest-of-Pool	Z.MAINE	1.890
29	DR	ON_PEAK	38057	Efficiency Maine Trust FCA6 B	Rest-of-Pool	Z.MAINE	52.652
30	DR	ON_PEAK	14579	FGE Energy Efficiency Portfolio 2011	Rest-of-Pool	Z.WCMASS	0.222
31	DR	ON_PEAK	15586	Gardner Wind Turbine	Rest-of-Pool	Z.WCMASS	0.318
32	DR	ON_PEAK	12753	MA SEMA state colleges	SEMA-RI	Z.SEMASS	0.147
33	DR	ON_PEAK	9122	ngrid nema odr eeoproject_1	NEMA-Boston	Z.NEMASSBOST	3.862
34	DR	ON_PEAK	9114	ngrid nh odr eeoproject_1	Rest-of-Pool	Z.NEWHAMPSHIRE	0.703
35	DR	ON_PEAK	9116	ngrid ri odr eeoproject_1	SEMA-RI	Z.RHODEISLAND	7.032
36	DR	ON_PEAK	9120	ngrid sema odr eeoproject_1	SEMA-RI	Z.SEMASS	5.275
37	DR	ON_PEAK	9121	ngrid wcma odr eeoproject_1	Rest-of-Pool	Z.WCMASS	5.442
38	DR	ON_PEAK	12670	ngrid_nema_fca1_eeodr	NEMA-Boston	Z.NEMASSBOST	92.911
39	DR	ON_PEAK	12671	ngrid_nh_fca1_eeodr	Rest-of-Pool	Z.NEWHAMPSHIRE	5.689
40	DR	ON_PEAK	12672	ngrid_ri_fca1_eeodr	SEMA-RI	Z.RHODEISLAND	148.929
41	DR	ON_PEAK	12673	ngrid_sema_fca1_eeodr	SEMA-RI	Z.SEMASS	123.612
42	DR	ON_PEAK	12674	ngrid_wcma_fca1_eeodr	Rest-of-Pool	Z.WCMASS	171.473

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
43	DR	ON_PEAK	9128	NHEC CORE EE Pgm Portfolio 1	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.159
44	DR	ON_PEAK	12757	NHEC Energy Efficiency Programs	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.364
45	DR	ON_PEAK	12752	Norfolk Walpole Correctional Complex Cogeneration	SEMA-RI	.Z.SEMASS	1.320
46	DR	ON_PEAK	12684	NSTAR EE NEMA	NEMA-Boston	.Z.NEMASSBOST	336.191
47	DR	ON_PEAK	12685	NSTAR EE SEMA	SEMA-RI	.Z.SEMASS	62.003
48	DR	ON_PEAK	9126	NSTAR NEMA 07	NEMA-Boston	.Z.NEMASSBOST	4.203
49	DR	ON_PEAK	9123	NSTAR SEMA	SEMA-RI	.Z.SEMASS	3.390
50	DR	ON_PEAK	9105	PSNH CORE EE Pgm Portfolio I	Rest-of-Pool	.Z.NEWHAMPSHIRE	2.918
51	DR	ON_PEAK	12693	PSNH CORE Energy Efficiency Programs	Rest-of-Pool	.Z.NEWHAMPSHIRE	46.995
52	DR	ON_PEAK	9108	Residential Energy Efficient	Rest-of-Pool	.Z.VERMONT	0.016
53	DR	ON_PEAK	38217	RI CHP	SEMA-RI	.Z.RHODEISLAND	10.399
54	DR	ON_PEAK	12754	Tewksbury State Hospital Cogenerator	Rest-of-Pool	.Z.WCMASS	0.734
55	DR	ON_PEAK	12801	UES CORE Energy Efficiency Programs	Rest-of-Pool	.Z.NEWHAMPSHIRE	6.977
56	DR	ON_PEAK	9125	UES EE Project 2007	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.622
57	DR	ON_PEAK	14580	UES Energy Efficiency Portfolio 2011	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.271
58	DR	ON_PEAK	9129	UMass Amherst - 4 MW Steam Turbine	Rest-of-Pool	.Z.WCMASS	1.620
59	DR	ON_PEAK	12657	Unitil CORE Energy Efficiency Programs-2	Rest-of-Pool	.Z.WCMASS	6.706
60	DR	ON_PEAK	9118	Unitil EE Project -2007	Rest-of-Pool	.Z.WCMASS	0.066
61	DR	ON_PEAK	12802	University of Massachusetts Central Heating Plant-3	Rest-of-Pool	.Z.WCMASS	10.260
62	DR	ON_PEAK	12805	University of Rhode Island - Energy Saving Performance Contract	SEMA-RI	.Z.RHODEISLAND	0.624
63	DR	ON_PEAK	12845	Vermont Efficiency Portfolio-1	Rest-of-Pool	.Z.VERMONT	112.716
64	DR	ON_PEAK	38216	WCMA CHP	Rest-of-Pool	.Z.WCMASS	0.613
65	DR	ON_PEAK	16790	WCMA Project E	Rest-of-Pool	.Z.WCMASS	0.400
66	DR	ON_PEAK	38219	WMECO EE WCMA	Rest-of-Pool	.Z.WCMASS	32.400
67	DR	ON_PEAK	9131	WMECO MA Portfolio 2006	Rest-of-Pool	.Z.WCMASS	0.033
68	DR	REAL_TIME	10361	BOC Kitterly Load	Rest-of-Pool	.Z.MAINE	9.396
69	DR	REAL_TIME	10106	Citizens Group A	Rest-of-Pool	.Z.VERMONT	5.940
70	DR	REAL_TIME	16713	Comverge CoolSentry 2	Connecticut	.Z.CONNECTICUT	2.200
71	DR	REAL_TIME	16718	Comverge CoolSentry 4	Connecticut	.Z.CONNECTICUT	1.500
72	DR	REAL_TIME	10091	MWRA Deer Island	NEMA-Boston	.Z.NEMASSBOST	15.660
73	DR	REAL_TIME	37093	NH DR 1	Rest-of-Pool	.Z.NEWHAMPSHIRE	1.898
74	DR	REAL_TIME	16700	RI CoolSentry	SEMA-RI	.Z.RHODEISLAND	8.527
75	DR	REAL_TIME	38120	RTDR_50017_Bangor Hydro (7504) - 3	Rest-of-Pool	.Z.MAINE	2.436
76	DR	REAL_TIME	38121	RTDR_50017_Boston (7507) - 3	NEMA-Boston	.Z.NEMASSBOST	3.230
77	DR	REAL_TIME	38122	RTDR_50017_Central MA (7515) - 3	Rest-of-Pool	.Z.WCMASS	17.388
78	DR	REAL_TIME	38123	RTDR_50017_Eastern CT (7500) - 3	Connecticut	.Z.CONNECTICUT	6.084
79	DR	REAL_TIME	38124	RTDR_50017_Lower SEMA (7511) - 3	SEMA-RI	.Z.SEMASS	2.411
80	DR	REAL_TIME	38125	RTDR_50017_Maine (7505) - 3	Rest-of-Pool	.Z.MAINE	95.020
81	DR	REAL_TIME	38126	RTDR_50017_New Hampshire (7509) - 3	Rest-of-Pool	.Z.NEWHAMPSHIRE	8.550
82	DR	REAL_TIME	38127	RTDR_50017_North Shore (7508) - 3	NEMA-Boston	.Z.NEMASSBOST	3.812
83	DR	REAL_TIME	38128	RTDR_50017_Northern CT (7501) - 3	Connecticut	.Z.CONNECTICUT	6.150
84	DR	REAL_TIME	38129	RTDR_50017_Northwest Vermont (7513) - 3	Rest-of-Pool	.Z.VERMONT	19.222

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
85	DR	REAL_TIME	38130	RTDR_50017_Norwalk - Stamford (7502) - 3	Connecticut	Z.CONNECTICUT	3.751
86	DR	REAL_TIME	38131	RTDR_50017_Portland Maine (7506) - 3	Rest-of-Pool	Z.MAINE	6.315
87	DR	REAL_TIME	38132	RTDR_50017_Rhode Island (7518) - 3	SEMA-RI	Z.RHODEISLAND	30.916
88	DR	REAL_TIME	38134	RTDR_50017_Seacoast (7510) - 3	Rest-of-Pool	Z.NEWHAMPSHIRE	1.392
89	DR	REAL_TIME	38133	RTDR_50017_SEMA (7512) - 3	SEMA-RI	Z.SEMASS	11.818
90	DR	REAL_TIME	38135	RTDR_50017_Springfield MA (7516) - 3	Rest-of-Pool	Z.WCMASS	10.663
91	DR	REAL_TIME	38136	RTDR_50017_Vermont (7514) - 3	Rest-of-Pool	Z.VERMONT	5.711
92	DR	REAL_TIME	38137	RTDR_50017_Western CT (7503) - 3	Connecticut	Z.CONNECTICUT	40.551
93	DR	REAL_TIME	38138	RTDR_50017_Western MA (7517) - 3	Rest-of-Pool	Z.WCMASS	16.503
94	DR	REAL_TIME	37889	RTDR_50092_Eastern CT (7500) - 2	Connecticut	Z.CONNECTICUT	22.293
95	DR	REAL_TIME	37890	RTDR_50092_Northern CT (7501) - 2	Connecticut	Z.CONNECTICUT	47.961
96	DR	REAL_TIME	37891	RTDR_50092_Norwalk - Stamford (7502) - 2	Connecticut	Z.CONNECTICUT	2.622
97	DR	REAL_TIME	37892	RTDR_50092_Western CT (7503) - 2	Connecticut	Z.CONNECTICUT	26.254
98	DR	REAL_TIME	17334	RTDR_50093_Western MA (7517)	Rest-of-Pool	Z.WCMASS	4.706
99	DR	REAL_TIME	38391	RTDR_50689_Bangor Hydro (7504) - Grp A_1	Rest-of-Pool	Z.MAINE	27.000
100	DR	REAL_TIME	38393	RTDR_50689_Maine (7505) - Grp A_1	Rest-of-Pool	Z.MAINE	43.200
101	DR	REAL_TIME	38210	RTDR_50689_North Shore 38210	NEMA-Boston	Z.NEMASSBOST	11.326
102	DR	REAL_TIME	37917	RTDR_50744_Boston (7507) - Grp C	NEMA-Boston	Z.NEMASSBOST	18.710
103	DR	REAL_TIME	37918	RTDR_50744_Central MA (7515) - Grp A	Rest-of-Pool	Z.WCMASS	2.280
104	DR	REAL_TIME	37919	RTDR_50744_Lower SEMA (7511) - Grp C	SEMA-RI	Z.SEMASS	0.939
105	DR	REAL_TIME	37920	RTDR_50744_North Shore (7508) - Grp C	NEMA-Boston	Z.NEMASSBOST	1.599
106	DR	REAL_TIME	37922	RTDR_50744_Northern CT (7501) - Grp B	Connecticut	Z.CONNECTICUT	17.891
107	DR	REAL_TIME	37924	RTDR_50744_SEMA (7512) - Grp C	SEMA-RI	Z.SEMASS	5.684
108	DR	REAL_TIME	37925	RTDR_50744_Springfield MA (7516) - Grp A	Rest-of-Pool	Z.WCMASS	1.380
109	DR	REAL_TIME	37927	RTDR_50744_Western CT (7503) - Grp B	Connecticut	Z.CONNECTICUT	9.159
110	DR	REAL_TIME	37928	RTDR_50786_Boston (7507)	NEMA-Boston	Z.NEMASSBOST	5.274
111	DR	REAL_TIME	37929	RTDR_50786_Central MA (7515)	Rest-of-Pool	Z.WCMASS	1.825
112	DR	REAL_TIME	37931	RTDR_50786_Lower SEMA (7511)	SEMA-RI	Z.SEMASS	1.609
113	DR	REAL_TIME	37932	RTDR_50786_Maine (7505)	Rest-of-Pool	Z.MAINE	3.188
114	DR	REAL_TIME	37933	RTDR_50786_New Hampshire (7509)	Rest-of-Pool	Z.NEWHAMPSHIRE	5.966
115	DR	REAL_TIME	37934	RTDR_50786_North Shore (7508)	NEMA-Boston	Z.NEMASSBOST	2.760
116	DR	REAL_TIME	37935	RTDR_50786_Northern CT (7501)	Connecticut	Z.CONNECTICUT	2.789
117	DR	REAL_TIME	37937	RTDR_50786_Portland Maine (7506)	Rest-of-Pool	Z.MAINE	0.797
118	DR	REAL_TIME	37938	RTDR_50786_Rhode Island (7518)	SEMA-RI	Z.RHODEISLAND	5.400
119	DR	REAL_TIME	37940	RTDR_50786_Seacoast (7510)	Rest-of-Pool	Z.NEWHAMPSHIRE	0.392
120	DR	REAL_TIME	37939	RTDR_50786_SEMA (7512)	SEMA-RI	Z.SEMASS	3.068
121	DR	REAL_TIME	37941	RTDR_50786_Springfield MA (7516)	Rest-of-Pool	Z.WCMASS	0.692
122	DR	REAL_TIME	37942	RTDR_50786_Vermont (7514)	Rest-of-Pool	Z.VERMONT	0.271
123	DR	REAL_TIME	37943	RTDR_50786_Western CT (7503)	Connecticut	Z.CONNECTICUT	0.309
124	DR	REAL_TIME	37944	RTDR_50786_Western MA (7517)	Rest-of-Pool	Z.WCMASS	0.117
125	DR	REAL_TIME	37095	WCMA DR 7515	Rest-of-Pool	Z.WCMASS	8.538
126	DR	REAL_TIME_EG	37990	RTEG_50017_Bangor Hydro (7504)	Rest-of-Pool	Z.MAINE	0.581
127	DR	REAL_TIME_EG	37991	RTEG_50017_Boston (7507)	NEMA-Boston	Z.NEMASSBOST	8.491

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
128	DR	REAL_TIME_EG	38139	RTEG_50017_Central MA (7515) - 3	Rest-of-Pool	Z.WCMASS	16.716
129	DR	REAL_TIME_EG	37993	RTEG_50017_Eastern CT (7500)	Connecticut	Z.CONNECTICUT	6.628
130	DR	REAL_TIME_EG	37994	RTEG_50017_Lower SEMA (7511)	SEMA-RI	Z.SEMASS	5.373
131	DR	REAL_TIME_EG	37995	RTEG_50017_Maine (7505)	Rest-of-Pool	Z.MAINE	7.409
132	DR	REAL_TIME_EG	37996	RTEG_50017_New Hampshire (7509)	Rest-of-Pool	Z.NEWHAMPSHIRE	13.338
133	DR	REAL_TIME_EG	37997	RTEG_50017_North Shore (7508)	NEMA-Boston	Z.NEMASSBOST	1.720
134	DR	REAL_TIME_EG	37998	RTEG_50017_Northern CT (7501)	Connecticut	Z.CONNECTICUT	3.528
135	DR	REAL_TIME_EG	37999	RTEG_50017_Northwest Vermont (7513)	Rest-of-Pool	Z.VERMONT	1.768
136	DR	REAL_TIME_EG	38140	RTEG_50017_Norwalk - Stamford (7502) - 3	Connecticut	Z.CONNECTICUT	10.155
137	DR	REAL_TIME_EG	38001	RTEG_50017_Portland Maine (7506)	Rest-of-Pool	Z.MAINE	3.609
138	DR	REAL_TIME_EG	38141	RTEG_50017_Rhode Island (7518) - 3	SEMA-RI	Z.RHODEISLAND	23.749
139	DR	REAL_TIME_EG	38004	RTEG_50017_Seacoast (7510)	Rest-of-Pool	Z.NEWHAMPSHIRE	0.684
140	DR	REAL_TIME_EG	38142	RTEG_50017_SEMA (7512) - 3	SEMA-RI	Z.SEMASS	10.589
141	DR	REAL_TIME_EG	38005	RTEG_50017_Springfield MA (7516)	Rest-of-Pool	Z.WCMASS	3.190
142	DR	REAL_TIME_EG	38006	RTEG_50017_Vermont (7514)	Rest-of-Pool	Z.VERMONT	1.098
143	DR	REAL_TIME_EG	38143	RTEG_50017_Western CT (7503) - 3	Connecticut	Z.CONNECTICUT	41.835
144	DR	REAL_TIME_EG	38008	RTEG_50017_Western MA (7517)	Rest-of-Pool	Z.WCMASS	3.162
145	DR	REAL_TIME_EG	38009	RTEG_50092_Eastern CT (7500) - 2	Connecticut	Z.CONNECTICUT	11.829
146	DR	REAL_TIME_EG	38010	RTEG_50092_Northern CT (7501) - 2	Connecticut	Z.CONNECTICUT	24.807
147	DR	REAL_TIME_EG	38011	RTEG_50092_Norwalk - Stamford (7502) - 2	Connecticut	Z.CONNECTICUT	7.234
148	DR	REAL_TIME_EG	38012	RTEG_50092_Western CT (7503) - 2	Connecticut	Z.CONNECTICUT	31.807
149	DR	REAL_TIME_EG	17321	RTEG_76_Springfield MA (7516)	Rest-of-Pool	Z.WCMASS	3.866
150	DR	REAL_TIME_EG	11273	Worcester Water Filtration	Rest-of-Pool	Z.WCMASS	0.864
151	DR	SEASONAL_PEAK	12581	CL&P - Conservation & Load Management (CL&M) - Energy Efficiency Project	Connecticut	Z.CONNECTICUT	226.043
152	DR	SEASONAL_PEAK	9103	CLM C&I Energy Efficiency	Connecticut	Z.CONNECTICUT	3.639
153	DR	SEASONAL_PEAK	9102	CLM Residential Energy Effic	Connecticut	Z.CONNECTICUT	0.000
154	DR	SEASONAL_PEAK	9104	EI C&I Energy Efficiency	Connecticut	Z.CONNECTICUT	1.406
155	DR	SEASONAL_PEAK	16547	UI C&LM Programs	Connecticut	Z.CONNECTICUT	4.320
156	DR	SEASONAL_PEAK	12600	UI Conservation and Load Management Programs	Connecticut	Z.CONNECTICUT	68.257
157	DR	SEASONAL_PEAK	12806	WMECO - Conservation & Load Management (CL&M) - Energy Efficiency Project	Rest-of-Pool	Z.WCMASS	40.916
COUNT OF DEMAND RESOURCES: 157					SUBTOTAL DEMAND RESOURCES MW: 2,739.566		

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
1	GEN	Intermittent	819	ARNOLD FALLS	Rest-of-Pool	Z.VERMONT	0.153
2	GEN	Intermittent	905	ASHUELOT HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.344
3	GEN	Intermittent	953	ATTLEBORO LANDFILL - QF	SEMA-RI	Z.SEMASS	0.120
4	GEN	Intermittent	931	AVERY DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.188
5	GEN	Intermittent	951	BALTIC MILLS - QF	Rest-of-Pool	Z.NEWHAMPSHIRE	0.038
6	GEN	Intermittent	811	BANTAM	Connecticut	Z.CONNECTICUT	0.026
7	GEN	Intermittent	754	BAR MILLS	Rest-of-Pool	Z.MAINE	1.951
8	GEN	Intermittent	2278	BARKER LOWER HYDRO	Rest-of-Pool	Z.MAINE	0.387
9	GEN	Intermittent	2279	BARKER UPPER HYDRO	Rest-of-Pool	Z.MAINE	0.377
10	GEN	Intermittent	833	BARNET	Rest-of-Pool	Z.VERMONT	0.054
11	GEN	Intermittent	1059	BARRE LANDFILL	Rest-of-Pool	Z.WCMASS	0.611
12	GEN	Intermittent	828	BARTON HYDRO	Rest-of-Pool	Z.VERMONT	0.294
13	GEN	Intermittent	824	BATH ELECTRIC HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.234
14	GEN	Intermittent	37072	Beaver_Ridge_Wind	Rest-of-Pool	Z.MAINE	0.454
15	GEN	Intermittent	812	BEEBE HOLBROOK	Rest-of-Pool	Z.WCMASS	0.074
16	GEN	Intermittent	2430	BELDENS-NEW	Rest-of-Pool	Z.VERMONT	1.619
17	GEN	Intermittent	2280	BENTON FALLS HYDRO	Rest-of-Pool	Z.MAINE	0.695
18	GEN	Intermittent	12180	BERKSHIRE COW POWER	Rest-of-Pool	Z.VERMONT	0.264
19	GEN	Intermittent	14661	Berkshire Wind Power Project	Rest-of-Pool	Z.WCMASS	1.824
20	GEN	Intermittent	337	BETHLEHEM	Rest-of-Pool	Z.NEWHAMPSHIRE	15.342
21	GEN	Intermittent	1258	BHE SMALL HYDRO COMPOSITE	Rest-of-Pool	Z.MAINE	0.935
22	GEN	Intermittent	1054	BLACKSTONE HYDRO ASSOC	SEMA-RI	Z.RHODEISLAND	0.000
23	GEN	Intermittent	1057	BLACKSTONE HYDRO LOAD REDUCER	SEMA-RI	Z.RHODEISLAND	0.311
24	GEN	Intermittent	37105	Blue Sky West	Rest-of-Pool	Z.MAINE	42.270
25	GEN	Intermittent	10615	BLUE SPRUCE FARM U5	Rest-of-Pool	Z.VERMONT	0.230
26	GEN	Intermittent	859	BOATLOCK	Rest-of-Pool	Z.WCMASS	1.447
27	GEN	Intermittent	346	BOLTON FALLS	Rest-of-Pool	Z.VERMONT	1.638
28	GEN	Intermittent	348	BOOT MILLS	Rest-of-Pool	Z.WCMASS	8.457
29	GEN	Intermittent	1113	BRASSUA HYDRO	Rest-of-Pool	Z.MAINE	2.002
30	GEN	Intermittent	860	BRIAR HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	1.126
31	GEN	Intermittent	357	BRIDGEWATER	Rest-of-Pool	Z.NEWHAMPSHIRE	14.716
32	GEN	Intermittent	356	BRISTOL REFUSE	Connecticut	Z.CONNECTICUT	12.422
33	GEN	Intermittent	11925	BROCKTON BRIGHTFIELDS	SEMA-RI	Z.SEMASS	0.144
34	GEN	Intermittent	2439	BROCKWAY MILLS U5	Rest-of-Pool	Z.VERMONT	0.029
35	GEN	Intermittent	2281	BROWNS MILL HYDRO	Rest-of-Pool	Z.MAINE	0.233
36	GEN	Intermittent	358	BRUNSWICK	Rest-of-Pool	Z.MAINE	9.945
37	GEN	Intermittent	362	BULLS BRIDGE	Connecticut	Z.CONNECTICUT	2.903
38	GEN	Intermittent	1165	CADYS FALLS	Rest-of-Pool	Z.VERMONT	0.402
39	GEN	Intermittent	910	CAMPTON DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.112
40	GEN	Intermittent	861	CANAAN	Rest-of-Pool	Z.NEWHAMPSHIRE	0.405
41	GEN	Intermittent	815	CARVER FALLS	Rest-of-Pool	Z.VERMONT	0.239
42	GEN	Intermittent	1122	CASCADE-DIAMOND-QF	Rest-of-Pool	Z.WCMASS	0.142
43	GEN	Intermittent	816	CAVENDISH	Rest-of-Pool	Z.VERMONT	0.331

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
44	GEN	Intermittent	789	CEC 002 PAWTUCKET U5	SEMA-RI	Z.RHODEISLAND	0.248
45	GEN	Intermittent	797	CEC 003 WYRE WYND U5	Connecticut	Z.CONNECTICUT	0.649
46	GEN	Intermittent	807	CEC 004 DAYVILLE POND U5	Connecticut	Z.CONNECTICUT	0.005
47	GEN	Intermittent	10401	CELLEY MILL U5	Rest-of-Pool	Z.NEWHAMPSHIRE	0.014
48	GEN	Intermittent	792	CENTENNIAL HYDRO	Rest-of-Pool	Z.WCMASS	0.252
49	GEN	Intermittent	832	CENTER RUTLAND	Rest-of-Pool	Z.VERMONT	0.000
50	GEN	Intermittent	914	CHAMBERLAIN FALLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.000
51	GEN	Intermittent	862	CHEMICAL	Rest-of-Pool	Z.WCMASS	0.500
52	GEN	Intermittent	1050	CHICOPEE HYDRO	Rest-of-Pool	Z.WCMASS	0.808
53	GEN	Intermittent	887	CHINA MILLS DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.040
54	GEN	Intermittent	863	CLEMENT DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.604
55	GEN	Intermittent	886	COCHECO FALLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.107
56	GEN	Intermittent	798	COLEBROOK	Connecticut	Z.CONNECTICUT	0.559
57	GEN	Intermittent	1049	COLLINS HYDRO	Rest-of-Pool	Z.WCMASS	0.416
58	GEN	Intermittent	834	COMPTU FALLS	Rest-of-Pool	Z.VERMONT	0.178
59	GEN	Intermittent	13975	Corriveau Hydroelectric LLC	Rest-of-Pool	Z.MAINE	0.053
60	GEN	Intermittent	10801	COVENTRY CLEAN ENERGY	Rest-of-Pool	Z.VERMONT	3.390
61	GEN	Intermittent	12323	COVENTRY CLEAN ENERGY #4	Rest-of-Pool	Z.VERMONT	2.244
62	GEN	Intermittent	849	CRESCENT DAM	Rest-of-Pool	Z.WCMASS	0.337
63	GEN	Intermittent	1209	CRRA HARTFORD LANDFILL	Connecticut	Z.CONNECTICUT	1.612
64	GEN	Intermittent	2282	DAMARISCOTTA HYDRO	Rest-of-Pool	Z.MAINE	0.000
65	GEN	Intermittent	835	DEWEY MILLS	Rest-of-Pool	Z.VERMONT	0.436
66	GEN	Intermittent	618	DG WHITEFIELD, LLC	Rest-of-Pool	Z.NEWHAMPSHIRE	16.563
67	GEN	Intermittent	2431	DODGE FALLS-NEW	Rest-of-Pool	Z.VERMONT	3.174
68	GEN	Intermittent	970	DUDLEY HYDRO	Rest-of-Pool	Z.WCMASS	0.030
69	GEN	Intermittent	942	DUNBARTON ROAD LANDFILL	Rest-of-Pool	Z.NEWHAMPSHIRE	0.182
70	GEN	Intermittent	864	DWIGHT	Rest-of-Pool	Z.WCMASS	0.266
71	GEN	Intermittent	823	EAST BARNET	Rest-of-Pool	Z.VERMONT	0.458
72	GEN	Intermittent	38114	East Bridgewater Solar Energy Project	SEMA-RI	Z.SEMASS	0.850
73	GEN	Intermittent	10403	EASTMAN BROOK U5	Rest-of-Pool	Z.NEWHAMPSHIRE	0.011
74	GEN	Intermittent	542	ECO MAINE	Rest-of-Pool	Z.MAINE	10.887
75	GEN	Intermittent	836	EMERSON FALLS	Rest-of-Pool	Z.VERMONT	0.014
76	GEN	Intermittent	830	ENOSBURG HYDRO	Rest-of-Pool	Z.VERMONT	0.449
77	GEN	Intermittent	865	ERROL	Rest-of-Pool	Z.NEWHAMPSHIRE	1.846
78	GEN	Intermittent	410	ESSEX 19 HYDRO	Rest-of-Pool	Z.VERMONT	3.082
79	GEN	Intermittent	2283	EUSTIS HYDRO	Rest-of-Pool	Z.MAINE	0.069
80	GEN	Intermittent	411	EXETER	Connecticut	Z.CONNECTICUT	19.011
81	GEN	Intermittent	1047	FAIRFAX	Rest-of-Pool	Z.VERMONT	1.705
82	GEN	Intermittent	412	FALLS VILLAGE	Connecticut	Z.CONNECTICUT	3.029
83	GEN	Intermittent	35593	Fiske Hydro	Rest-of-Pool	Z.NEWHAMPSHIRE	0.077
84	GEN	Intermittent	943	FOUR HILLS LANDFILL	Rest-of-Pool	Z.NEWHAMPSHIRE	0.355
85	GEN	Intermittent	194	FOUR HILLS LOAD REDUCER	Rest-of-Pool	Z.NEWHAMPSHIRE	0.560
86	GEN	Intermittent	882	FRANKLIN FALLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.428

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
87	GEN	Intermittent	821	GAGE	Rest-of-Pool	.Z.VERMONT	0.214
88	GEN	Intermittent	2284	GARDINER HYDRO	Rest-of-Pool	.Z.MAINE	0.388
89	GEN	Intermittent	851	GARDNER FALLS	Rest-of-Pool	.Z.WCMASS	0.248
90	GEN	Intermittent	768	GARVINS HOOKSETT	Rest-of-Pool	.Z.NEWHAMPSHIRE	5.173
91	GEN	Intermittent	850	GLENDALE HYDRO	Rest-of-Pool	.Z.WCMASS	0.288
92	GEN	Intermittent	35555	GMCW	Rest-of-Pool	.Z.VERMONT	0.850
93	GEN	Intermittent	913	GOODRICH FALLS	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.186
94	GEN	Intermittent	2434	GORGE 18 HYDRO-NEW	Rest-of-Pool	.Z.VERMONT	0.216
95	GEN	Intermittent	427	GORHAM	Rest-of-Pool	.Z.NEWHAMPSHIRE	1.192
96	GEN	Intermittent	1572	GRANBY SANITARY LANDFILL QF US	Rest-of-Pool	.Z.WCMASS	2.727
97	GEN	Intermittent	14595	Granite Reliable Power	Rest-of-Pool	.Z.NEWHAMPSHIRE	13.932
98	GEN	Intermittent	900	GREAT FALLS LOWER	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.142
99	GEN	Intermittent	899	GREAT FALLS UPPER	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.000
100	GEN	Intermittent	10424	Great Lakes - Berlin Incremental	Rest-of-Pool	.Z.NEWHAMPSHIRE	8.977
101	GEN	Intermittent	424	GREAT LAKES - MILLINOCKET	Rest-of-Pool	.Z.MAINE	44.222
102	GEN	Intermittent	1117	GREAT WORKS COMPOSITE	Rest-of-Pool	.Z.MAINE	0.019
103	GEN	Intermittent	12274	GREEN MOUNTAIN DAIRY	Rest-of-Pool	.Z.VERMONT	0.193
104	GEN	Intermittent	429	GREENVILLE	Rest-of-Pool	.Z.MAINE	2.816
105	GEN	Intermittent	2285	GREENVILLE HYDRO	Rest-of-Pool	.Z.MAINE	0.107
106	GEN	Intermittent	866	GREGGS	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.470
107	GEN	Intermittent	37050	Groton Wind Project	Rest-of-Pool	.Z.NEWHAMPSHIRE	6.414
108	GEN	Intermittent	11052	GRTR NEW BEDFORD LFG UTIL PROJ	SEMA-RI	.Z.SEMASS	2.537
109	GEN	Intermittent	2286	HACKETT MILLS HYDRO	Rest-of-Pool	.Z.MAINE	0.104
110	GEN	Intermittent	769	HADLEY FALLS 1&2	Rest-of-Pool	.Z.WCMASS	13.349
111	GEN	Intermittent	38115	Harrington Street PV Project	Rest-of-Pool	.Z.WCMASS	1.430
112	GEN	Intermittent	436	HEMPHILL 1	Rest-of-Pool	.Z.NEWHAMPSHIRE	14.137
113	GEN	Intermittent	957	HG&E HYDRO CABOT 1-4	Rest-of-Pool	.Z.WCMASS	1.244
114	GEN	Intermittent	783	HIGHGATE FALLS	Rest-of-Pool	.Z.VERMONT	3.216
115	GEN	Intermittent	16640	Hilldale Ave Haverhill PV	NEMA-Boston	.Z.NEMASSBOST	0.270
116	GEN	Intermittent	891	HILLSBORO MILLS	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.024
117	GEN	Intermittent	919	HOPKINTON HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.080
118	GEN	Intermittent	902	HOSIERY MILL DAM	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.061
119	GEN	Intermittent	11408	HULL WIND TURBINE II	SEMA-RI	.Z.SEMASS	0.068
120	GEN	Intermittent	1656	HULL WIND TURBINE U5	SEMA-RI	.Z.SEMASS	0.046
121	GEN	Intermittent	2432	HUNTINGTON FALLS-NEW	Rest-of-Pool	.Z.VERMONT	1.884
122	GEN	Intermittent	856	HUNT'S POND	Rest-of-Pool	.Z.WCMASS	0.004
123	GEN	Intermittent	2426	Hydro Kennebec	Rest-of-Pool	.Z.MAINE	6.804
124	GEN	Intermittent	867	INDIAN ORCHARD	Rest-of-Pool	.Z.WCMASS	0.509
125	GEN	Intermittent	16659	Ipswich Wind Farm 1	NEMA-Boston	.Z.NEMASSBOST	0.150
126	GEN	Intermittent	911	KELLEYS FALLS	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.022
127	GEN	Intermittent	1119	KENNEBAGO HYDRO	Rest-of-Pool	.Z.MAINE	0.197
128	GEN	Intermittent	1273	KENNEBEC WATER U5	Rest-of-Pool	.Z.MAINE	0.000
129	GEN	Intermittent	786	KEZAR LEDGEMERE COMPOSITE	Rest-of-Pool	.Z.MAINE	0.523

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
130	GEN	Intermittent	12551	Kibby Wind Power	Rest-of-Pool	Z.MAINE	13.928
131	GEN	Intermittent	837	KILLINGTON	Rest-of-Pool	Z.VERMONT	0.003
132	GEN	Intermittent	35979	Kingdom Community Wind	Rest-of-Pool	Z.VERMONT	9.760
133	GEN	Intermittent	838	KINGSBURY	Rest-of-Pool	Z.VERMONT	0.057
134	GEN	Intermittent	799	KINNEYTOWN A	Connecticut	Z.CONNECTICUT	0.000
135	GEN	Intermittent	800	KINNEYTOWN B	Connecticut	Z.CONNECTICUT	0.242
136	GEN	Intermittent	839	LADD'S MILL	Rest-of-Pool	Z.VERMONT	0.026
137	GEN	Intermittent	892	LAKEPORT DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.273
138	GEN	Intermittent	457	LAWRENCE HYDRO	Rest-of-Pool	Z.WCMASS	5.760
139	GEN	Intermittent	14660	Lempster Wind	Rest-of-Pool	Z.NEWHAMPSHIRE	3.059
140	GEN	Intermittent	1283	LEWISTON U5	Rest-of-Pool	Z.MAINE	0.227
141	GEN	Intermittent	894	LISBON HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.244
142	GEN	Intermittent	462	LISBON RESOURCE RECOVERY	Connecticut	Z.CONNECTICUT	13.500
143	GEN	Intermittent	904	LOCHMERE DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.340
144	GEN	Intermittent	460	LOCKWOOD	Rest-of-Pool	Z.MAINE	3.623
145	GEN	Intermittent	895	LOWER ROBERTSON DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.323
146	GEN	Intermittent	10406	LOWER VALLEY HYDRO U5	Rest-of-Pool	Z.NEWHAMPSHIRE	0.164
147	GEN	Intermittent	10408	LOWER VILLAGE HYDRO U5	Rest-of-Pool	Z.NEWHAMPSHIRE	0.000
148	GEN	Intermittent	950	LP ATHOL - QF	Rest-of-Pool	Z.WCMASS	0.084
149	GEN	Intermittent	1114	MADISON COMPOSITE	Rest-of-Pool	Z.MAINE	0.000
150	GEN	Intermittent	16644	Main Street Whitinsville PV	SEMA-RI	Z.SEMASS	0.280
151	GEN	Intermittent	13669	Manchester Methane LLC East Windsor Facility	Connecticut	Z.CONNECTICUT	0.932
152	GEN	Intermittent	1266	MARSH POWER	Rest-of-Pool	Z.MAINE	0.000
153	GEN	Intermittent	840	MARTINSVILLE	Rest-of-Pool	Z.VERMONT	0.034
154	GEN	Intermittent	1061	MASCOMA HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.253
155	GEN	Intermittent	10998	MASSINNOVATION FITCHBURG	Rest-of-Pool	Z.WCMASS	0.000
156	GEN	Intermittent	2287	MECHANIC FALLS HYDRO	Rest-of-Pool	Z.MAINE	0.231
157	GEN	Intermittent	806	MECHANICSVILLE	Connecticut	Z.CONNECTICUT	0.036
158	GEN	Intermittent	16525	Medway	Rest-of-Pool	Z.MAINE	3.443
159	GEN	Intermittent	759	MESSALONSKEE COMPOSITE	Rest-of-Pool	Z.MAINE	1.917
160	GEN	Intermittent	793	METHUEN HYDRO	NEMA-Boston	Z.NEMASSBOST	0.016
161	GEN	Intermittent	1720	MIDDLEBURY LOWER	Rest-of-Pool	Z.VERMONT	0.871
162	GEN	Intermittent	779	MIDDLESEX 2	Rest-of-Pool	Z.VERMONT	1.033
163	GEN	Intermittent	16296	Milford Hydro	Rest-of-Pool	Z.MAINE	6.422
164	GEN	Intermittent	487	MILLER HYDRO	Rest-of-Pool	Z.MAINE	8.668
165	GEN	Intermittent	868	MILTON MILLS HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.374
166	GEN	Intermittent	869	MINE FALLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.788
167	GEN	Intermittent	794	MINIWAWA	Rest-of-Pool	Z.NEWHAMPSHIRE	0.175
168	GEN	Intermittent	954	MM LOWELL LANDFILL - QF	Rest-of-Pool	Z.WCMASS	0.094
169	GEN	Intermittent	1109	MMWAC	Rest-of-Pool	Z.MAINE	1.792
170	GEN	Intermittent	915	MONADNOCK PAPER MILLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.000
171	GEN	Intermittent	841	MORETOWN 8	Rest-of-Pool	Z.VERMONT	0.113
172	GEN	Intermittent	1166	MORRISVILLE PLANT #2	Rest-of-Pool	Z.VERMONT	0.314

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
173	GEN	Intermittent	1062	MWRA COSGROVE	Rest-of-Pool	.Z.WCMASS	0.905
174	GEN	Intermittent	842	NANTANA MILL	Rest-of-Pool	.Z.VERMONT	0.045
175	GEN	Intermittent	890	NASHUA HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.326
176	GEN	Intermittent	978	NEW MILFORD	Connecticut	.Z.CONNECTICUT	1.500
177	GEN	Intermittent	843	NEWBURY	Rest-of-Pool	.Z.VERMONT	0.069
178	GEN	Intermittent	888	NEWFOUND HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.410
179	GEN	Intermittent	772	NEWPORT HYDRO	Rest-of-Pool	.Z.VERMONT	1.294
180	GEN	Intermittent	38078	NFM Solar Power, LLC	Rest-of-Pool	.Z.WCMASS	0.507
181	GEN	Intermittent	922	NOONE FALLS	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.016
182	GEN	Intermittent	760	NORTH GORHAM	Rest-of-Pool	.Z.MAINE	1.211
183	GEN	Intermittent	11126	NORTH HARTLAND HYDRO	Rest-of-Pool	.Z.VERMONT	2.532
184	GEN	Intermittent	2288	NORWAY HYDRO	Rest-of-Pool	.Z.MAINE	0.000
185	GEN	Intermittent	857	OAKDALE HYDRO	Rest-of-Pool	.Z.WCMASS	2.645
186	GEN	Intermittent	527	OGDEN-MARTIN 1	NEMA-Boston	.Z.NEMASSBOST	39.352
187	GEN	Intermittent	897	OLD NASH DAM	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.024
188	GEN	Intermittent	854	ORANGE HYDRO 1	Rest-of-Pool	.Z.WCMASS	0.034
189	GEN	Intermittent	855	ORANGE HYDRO 2	Rest-of-Pool	.Z.WCMASS	0.071
190	GEN	Intermittent	908	OTIS MILL HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.000
191	GEN	Intermittent	844	OTTAUQUECHEE	Rest-of-Pool	.Z.VERMONT	0.713
192	GEN	Intermittent	925	OTTER LANE HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.013
193	GEN	Intermittent	820	PASSUMPSIC	Rest-of-Pool	.Z.VERMONT	0.215
194	GEN	Intermittent	814	PATCH	Rest-of-Pool	.Z.VERMONT	0.019
195	GEN	Intermittent	532	PEJEPSCOT	Rest-of-Pool	.Z.MAINE	7.288
196	GEN	Intermittent	870	PEMBROKE	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.468
197	GEN	Intermittent	871	PENNACOOK FALLS LOWER	Rest-of-Pool	.Z.NEWHAMPSHIRE	1.516
198	GEN	Intermittent	872	PENNACOOK FALLS UPPER	Rest-of-Pool	.Z.NEWHAMPSHIRE	1.050
199	GEN	Intermittent	948	PEPPERELL HYDRO COMPANY LLC	Rest-of-Pool	.Z.WCMASS	0.524
200	GEN	Intermittent	536	PERC-ORRINGTON 1	Rest-of-Pool	.Z.MAINE	21.101
201	GEN	Intermittent	926	PETERBOROUGH LOWER HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.007
202	GEN	Intermittent	941	PETERBOROUGH UPPER HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.010
203	GEN	Intermittent	10402	PETTYBORO HYDRO U5	Rest-of-Pool	.Z.NEWHAMPSHIRE	0.001
204	GEN	Intermittent	818	PIERCE MILLS	Rest-of-Pool	.Z.VERMONT	0.105
205	GEN	Intermittent	809	PINCHBECK	Connecticut	.Z.CONNECTICUT	0.000
206	GEN	Intermittent	2289	PIONEER DAM HYDRO	Rest-of-Pool	.Z.MAINE	0.059
207	GEN	Intermittent	2290	PITTSFIELD HYDRO	Rest-of-Pool	.Z.MAINE	0.163
208	GEN	Intermittent	2462	PLAINVILLE GEN QF U5	SEMA-RI	.Z.SEMASS	2.692
209	GEN	Intermittent	539	PONTOOK HYDRO	Rest-of-Pool	.Z.NEWHAMPSHIRE	4.924
210	GEN	Intermittent	969	POWDER MILL HYDRO	Rest-of-Pool	.Z.WCMASS	0.010
211	GEN	Intermittent	14610	Princeton Wind Farm Project	Rest-of-Pool	.Z.WCMASS	0.161
212	GEN	Intermittent	541	PROCTOR	Rest-of-Pool	.Z.VERMONT	1.660
213	GEN	Intermittent	804	PUTNAM	Connecticut	.Z.CONNECTICUT	0.186
214	GEN	Intermittent	873	PUTTS BRIDGE	Rest-of-Pool	.Z.WCMASS	1.183
215	GEN	Intermittent	810	QUINEBAUG	Connecticut	.Z.CONNECTICUT	0.392

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
216	GEN	Intermittent	16642	Railroad Street Revere PV	NEMA-Boston	Z.NEMASSBOST	0.245
217	GEN	Intermittent	14665	Record Hill Wind	Rest-of-Pool	Z.MAINE	6.948
218	GEN	Intermittent	874	RED BRIDGE	Rest-of-Pool	Z.WCMASS	0.971
219	GEN	Intermittent	875	RIVER BEND	Rest-of-Pool	Z.NEW HAMPSHIRE	0.548
220	GEN	Intermittent	795	RIVER MILL HYDRO	Rest-of-Pool	Z.NEW HAMPSHIRE	0.000
221	GEN	Intermittent	947	RIVERDALE MILLS - QF	SEMA-RI	Z.SEMASS	0.000
222	GEN	Intermittent	1034	RIVERSIDE 4-7	Rest-of-Pool	Z.WCMASS	1.389
223	GEN	Intermittent	1035	RIVERSIDE 8	Rest-of-Pool	Z.WCMASS	2.568
224	GEN	Intermittent	876	ROBERTSVILLE	Connecticut	Z.CONNECTICUT	0.005
225	GEN	Intermittent	1368	ROCKY GORGE CORPORATION	Rest-of-Pool	Z.MAINE	0.127
226	GEN	Intermittent	906	ROLLINSFORD HYDRO	Rest-of-Pool	Z.NEW HAMPSHIRE	0.238
227	GEN	Intermittent	16643	Rover Street Everett PV	NEMA-Boston	Z.NEMASSBOST	0.168
228	GEN	Intermittent	10959	RRIG EXPANSION PHASE 2	SEMA-RI	Z.RHODEISLAND	4.085
229	GEN	Intermittent	11424	RUMFORD FALLS	Rest-of-Pool	Z.MAINE	28.971
230	GEN	Intermittent	2433	RYEGATE 1-NEW	Rest-of-Pool	Z.VERMONT	19.000
231	GEN	Intermittent	38173	Saddleback Ridge Wind	Rest-of-Pool	Z.MAINE	5.500
232	GEN	Intermittent	928	SALMON BROOK STATION 3	Rest-of-Pool	Z.NEW HAMPSHIRE	0.047
233	GEN	Intermittent	883	SALMON FALLS HYDRO	Rest-of-Pool	Z.MAINE	0.145
234	GEN	Intermittent	808	SANDY HOOK HYDRO	Connecticut	Z.CONNECTICUT	0.007
235	GEN	Intermittent	877	SCOTLAND	Connecticut	Z.CONNECTICUT	0.000
236	GEN	Intermittent	35442	Seaman Energy	Rest-of-Pool	Z.WCMASS	0.377
237	GEN	Intermittent	827	SEARSBURG WIND	Rest-of-Pool	Z.WCMASS	0.256
238	GEN	Intermittent	562	SECREC-PRESTON	Connecticut	Z.CONNECTICUT	16.294
239	GEN	Intermittent	563	SEMASS 1	SEMA-RI	Z.SEMASS	46.955
240	GEN	Intermittent	564	SEMASS 2	SEMA-RI	Z.SEMASS	22.174
241	GEN	Intermittent	767	SES CONCORD	Rest-of-Pool	Z.NEW HAMPSHIRE	12.151
242	GEN	Intermittent	761	SHAWMUT	Rest-of-Pool	Z.MAINE	5.392
243	GEN	Intermittent	12530	Sheffield Wind Farm	Rest-of-Pool	Z.VERMONT	2.795
244	GEN	Intermittent	565	SHELDON SPRINGS	Rest-of-Pool	Z.VERMONT	4.416
245	GEN	Intermittent	737	SIMPSON G LOAD REDUCER	Rest-of-Pool	Z.VERMONT	2.329
246	GEN	Intermittent	878	SKINNER	Rest-of-Pool	Z.WCMASS	0.050
247	GEN	Intermittent	845	SLACK DAM	Rest-of-Pool	Z.VERMONT	0.141
248	GEN	Intermittent	570	SMITH	Rest-of-Pool	Z.NEW HAMPSHIRE	10.037
249	GEN	Intermittent	822	SMITH (CVPS)	Rest-of-Pool	Z.VERMONT	0.517
250	GEN	Intermittent	580	SO. MEADOW 5	Connecticut	Z.CONNECTICUT	23.873
251	GEN	Intermittent	581	SO. MEADOW 6	Connecticut	Z.CONNECTICUT	22.797
252	GEN	Intermittent	1107	SOMERSET	Rest-of-Pool	Z.MAINE	0.000
253	GEN	Intermittent	852	SOUTH BARRE HYDRO	Rest-of-Pool	Z.WCMASS	0.066
254	GEN	Intermittent	1267	SPARHAWK	Rest-of-Pool	Z.MAINE	0.001
255	GEN	Intermittent	35594	Spaulding Pond Hydro	Rest-of-Pool	Z.NEW HAMPSHIRE	0.021
256	GEN	Intermittent	2425	SPRINGFIELD REFUSE-NEW	Rest-of-Pool	Z.WCMASS	5.087
257	GEN	Intermittent	35693	Spruce Mountain Wind	Rest-of-Pool	Z.MAINE	2.353
258	GEN	Intermittent	909	STEELS POND HYDRO	Rest-of-Pool	Z.NEW HAMPSHIRE	0.038

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
259	GEN	Intermittent	885	STEVENS MILL	Rest-of-Pool	Z.NEWHAMPSHIRE	0.080
260	GEN	Intermittent	16523	Stillwater	Rest-of-Pool	Z.MAINE	1.529
261	GEN	Intermittent	898	SUGAR RIVER HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.000
262	GEN	Intermittent	889	SUNAPEE HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.101
263	GEN	Intermittent	935	SUNNYBROOK HYDRO 2	Rest-of-Pool	Z.NEWHAMPSHIRE	0.013
264	GEN	Intermittent	884	SWANS FALLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.372
265	GEN	Intermittent	10409	SWEETWATER HYDRO U5	Rest-of-Pool	Z.NEWHAMPSHIRE	0.154
266	GEN	Intermittent	1270	SYSKO STONY BROOK	Rest-of-Pool	Z.MAINE	0.017
267	GEN	Intermittent	1271	SYSKO WIGHT BROOK	Rest-of-Pool	Z.MAINE	0.003
268	GEN	Intermittent	817	TAFTSVILLE VT	Rest-of-Pool	Z.VERMONT	0.059
269	GEN	Intermittent	879	TAFTVILLE CT	Connecticut	Z.CONNECTICUT	0.265
270	GEN	Intermittent	592	TAMWORTH	Rest-of-Pool	Z.NEWHAMPSHIRE	19.536
271	GEN	Intermittent	1225	TANNERY DAM	Rest-of-Pool	Z.WCMASS	0.000
272	GEN	Intermittent	1302	TCPMCPAGF GEN1 U5	Rest-of-Pool	Z.MAINE	0.000
273	GEN	Intermittent	14652	Templeton Wind Turbine	Rest-of-Pool	Z.WCMASS	0.058
274	GEN	Intermittent	37120	Thundermist Hydropower	SEMA-RI	Z.RHODEISLAND	0.000
275	GEN	Intermittent	813	TUNNEL	Connecticut	Z.CONNECTICUT	0.520
276	GEN	Intermittent	253	TURNKEY LANDFILL	Rest-of-Pool	Z.NEWHAMPSHIRE	1.185
277	GEN	Intermittent	831	VAIL & GREAT FALLS	Rest-of-Pool	Z.VERMONT	0.312
278	GEN	Intermittent	949	VALLEY HYDRO - QF	SEMA-RI	Z.RHODEISLAND	0.040
279	GEN	Intermittent	14623	Valley Hydro (Station No. 5)	Rest-of-Pool	Z.WCMASS	0.241
280	GEN	Intermittent	2435	VERGENNES HYDRO-NEW	Rest-of-Pool	Z.VERMONT	0.961
281	GEN	Intermittent	16631	Victory Road Dorchester PV	NEMA-Boston	Z.NEMASSBOST	0.316
282	GEN	Intermittent	1048	WARE HYDRO	Rest-of-Pool	Z.WCMASS	0.237
283	GEN	Intermittent	901	WATERLOOM FALLS	Rest-of-Pool	Z.NEWHAMPSHIRE	0.008
284	GEN	Intermittent	932	WATSON DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.024
285	GEN	Intermittent	2291	WAVERLY AVENUE HYDRO	Rest-of-Pool	Z.MAINE	0.147
286	GEN	Intermittent	853	WEBSTER HYDRO	Rest-of-Pool	Z.WCMASS	0.000
287	GEN	Intermittent	38110	West Brookfield Solar	Rest-of-Pool	Z.WCMASS	0.410
288	GEN	Intermittent	781	WEST DANVILLE 1	Rest-of-Pool	Z.VERMONT	0.000
289	GEN	Intermittent	616	WEST ENFIELD	Rest-of-Pool	Z.MAINE	11.216
290	GEN	Intermittent	893	WEST HOPKINTON HYDRO	Rest-of-Pool	Z.NEWHAMPSHIRE	0.237
291	GEN	Intermittent	10770	WEST SPRINGFIELD HYDRO U5	Rest-of-Pool	Z.WCMASS	0.333
292	GEN	Intermittent	10451	WESTFIELD #1 U5	Rest-of-Pool	Z.WCMASS	0.000
293	GEN	Intermittent	617	WESTON	Rest-of-Pool	Z.MAINE	7.871
294	GEN	Intermittent	933	WESTON DAM	Rest-of-Pool	Z.NEWHAMPSHIRE	0.226
295	GEN	Intermittent	349	WHEELABRATOR BRIDGEPORT, L.P.	Connecticut	Z.CONNECTICUT	59.237
296	GEN	Intermittent	10404	WHEELABRATOR CLAREMONT U5	Rest-of-Pool	Z.NEWHAMPSHIRE	3.619
297	GEN	Intermittent	547	WHEELABRATOR NORTH ANDOVER	NEMA-Boston	Z.NEMASSBOST	29.714
298	GEN	Intermittent	801	WILLIMANTIC 1	Connecticut	Z.CONNECTICUT	0.060
299	GEN	Intermittent	802	WILLIMANTIC 2	Connecticut	Z.CONNECTICUT	0.037
300	GEN	Intermittent	622	WINOOSKI 1	Rest-of-Pool	Z.VERMONT	1.977
301	GEN	Intermittent	846	WINOOSKI 8	Rest-of-Pool	Z.VERMONT	0.303

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
302	GEN	Intermittent	1167	WOLCOTT HYDRO #1	Rest-of-Pool	.Z.VERMONT	0.214
303	GEN	Intermittent	847	WOODSIDE	Rest-of-Pool	.Z.VERMONT	0.065
304	GEN	Intermittent	10407	WOODSVILLE HYDRO U5	Rest-of-Pool	.Z.NEW HAMPSHIRE	0.131
305	GEN	Intermittent	37077	Woronoco Hydro LLC	Rest-of-Pool	.Z.WCMASS	0.658
306	GEN	Intermittent	848	WRIGHTSVILLE	Rest-of-Pool	.Z.VERMONT	0.130
307	GEN	Intermittent	903	WYANDOTTE HYDRO	Rest-of-Pool	.Z.NEW HAMPSHIRE	0.002
308	GEN	Intermittent	2292	YORK HYDRO	Rest-of-Pool	.Z.MAINE	0.289
309	GEN	Non Intermittent	463	AEI LIVERMORE	Rest-of-Pool	.Z.MAINE	34.430
310	GEN	Non Intermittent	326	ALTRESCO	Rest-of-Pool	.Z.WCMASS	150.972
311	GEN	Non Intermittent	14271	Ameresco Northampton	Rest-of-Pool	.Z.WCMASS	0.733
312	GEN	Non Intermittent	327	AMOSKEAG	Rest-of-Pool	.Z.NEW HAMPSHIRE	16.781
313	GEN	Non Intermittent	1412	ANP-BELLINGHAM 1	SEMA-RI	.Z.SEMASS	237.102
314	GEN	Non Intermittent	1415	ANP-BELLINGHAM 2	SEMA-RI	.Z.SEMASS	243.587
315	GEN	Non Intermittent	1287	ANP-BLACKSTONE ENERGY 2	SEMA-RI	.Z.SEMASS	245.314
316	GEN	Non Intermittent	1286	ANP-BLACKSTONE ENERGY CO. #1	SEMA-RI	.Z.SEMASS	239.634
317	GEN	Non Intermittent	329	ASCUTNEY GT	Rest-of-Pool	.Z.VERMONT	8.940
318	GEN	Non Intermittent	330	AYERS ISLAND	Rest-of-Pool	.Z.NEW HAMPSHIRE	8.474
319	GEN	Non Intermittent	331	AZISCOHOS HYDRO	Rest-of-Pool	.Z.MAINE	6.800
320	GEN	Non Intermittent	959	BARTON 1-4 DIESELS	Rest-of-Pool	.Z.VERMONT	0.605
321	GEN	Non Intermittent	335	BELLOWS FALLS	Rest-of-Pool	.Z.NEW HAMPSHIRE	48.540
322	GEN	Non Intermittent	1086	BERKSHIRE POWER	Rest-of-Pool	.Z.WCMASS	229.279
323	GEN	Non Intermittent	336	BERLIN 1 GT	Rest-of-Pool	.Z.VERMONT	34.830
324	GEN	Non Intermittent	16653	Berlin Biopower	Rest-of-Pool	.Z.NEW HAMPSHIRE	65.380
325	GEN	Non Intermittent	16738	BFCP Fuel Cell	Connecticut	.Z.CONNECTICUT	13.054
326	GEN	Non Intermittent	1005	BG DIGHTON POWER LLC	SEMA-RI	.Z.SEMASS	160.539
327	GEN	Non Intermittent	755	BONNY EAGLE W. BUXTON	Rest-of-Pool	.Z.MAINE	16.151
328	GEN	Non Intermittent	590	BORALEX STRATTON ENERGY	Rest-of-Pool	.Z.MAINE	44.363
329	GEN	Non Intermittent	355	BRANFORD 10	Connecticut	.Z.CONNECTICUT	15.840
330	GEN	Non Intermittent	1032	BRIDGEPORT ENERGY 1	Connecticut	.Z.CONNECTICUT	454.434
331	GEN	Non Intermittent	340	BRIDGEPORT HARBOR 3	Connecticut	.Z.CONNECTICUT	383.426
332	GEN	Non Intermittent	341	BRIDGEPORT HARBOR 4	Connecticut	.Z.CONNECTICUT	17.100
333	GEN	Non Intermittent	1288	BUCKSPORT ENERGY 4	Rest-of-Pool	.Z.MAINE	144.000
334	GEN	Non Intermittent	1028	BUNKER RD #12 GAS TURB	SEMA-RI	.Z.SEMASS	2.351
335	GEN	Non Intermittent	1029	BUNKER RD #13 GAS TURB	SEMA-RI	.Z.SEMASS	2.840
336	GEN	Non Intermittent	363	BURLINGTON GT	Rest-of-Pool	.Z.VERMONT	18.776
337	GEN	Non Intermittent	766	CABOT TURNERS FALLS	Rest-of-Pool	.Z.WCMASS	67.881
338	GEN	Non Intermittent	365	CANAL 1	SEMA-RI	.Z.SEMASS	547.059
339	GEN	Non Intermittent	366	CANAL 2	SEMA-RI	.Z.SEMASS	545.125
340	GEN	Non Intermittent	367	CAPE GT 4	Rest-of-Pool	.Z.MAINE	13.750
341	GEN	Non Intermittent	368	CAPE GT 5	Rest-of-Pool	.Z.MAINE	15.822
342	GEN	Non Intermittent	369	CATARACT EAST	Rest-of-Pool	.Z.MAINE	7.775
343	GEN	Non Intermittent	324	CDECCA	Connecticut	.Z.CONNECTICUT	55.254
344	GEN	Non Intermittent	2468	CHERRY 10	Rest-of-Pool	.Z.WCMASS	2.100

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
345	GEN	Non Intermittent	2469	CHERRY 11	Rest-of-Pool	.Z.WCMASS	2.100
346	GEN	Non Intermittent	2470	CHERRY 12	Rest-of-Pool	.Z.WCMASS	4.999
347	GEN	Non Intermittent	2466	CHERRY 7	Rest-of-Pool	.Z.WCMASS	2.800
348	GEN	Non Intermittent	2467	CHERRY 8	Rest-of-Pool	.Z.WCMASS	3.400
349	GEN	Non Intermittent	2424	CITIZENS BLOCK LOAD	Rest-of-Pool	.Z.VERMONT	30.000
350	GEN	Non Intermittent	376	CLEARY 8	SEMA-RI	.Z.SEMASS	24.825
351	GEN	Non Intermittent	375	CLEARY 9 9A CC	SEMA-RI	.Z.SEMASS	104.931
352	GEN	Non Intermittent	379	COBBLE MOUNTAIN	Rest-of-Pool	.Z.WCMASS	31.126
353	GEN	Non Intermittent	380	COMERFORD	Rest-of-Pool	.Z.NEWHAMPSHIRE	166.135
354	GEN	Non Intermittent	370	COS COB 10	Connecticut	.Z.CONNECTICUT	19.028
355	GEN	Non Intermittent	371	COS COB 11	Connecticut	.Z.CONNECTICUT	18.724
356	GEN	Non Intermittent	372	COS COB 12	Connecticut	.Z.CONNECTICUT	18.660
357	GEN	Non Intermittent	12524	Cos Cob 13&14	Connecticut	.Z.CONNECTICUT	36.000
358	GEN	Non Intermittent	12553	Covanta Haverhill Landfill Gas Engine	NEMA-Boston	.Z.NEMASSBOST	1.241
359	GEN	Non Intermittent	446	COVANTA JONESBORO	Rest-of-Pool	.Z.MAINE	20.226
360	GEN	Non Intermittent	445	COVANTA WEST ENFIELD	Rest-of-Pool	.Z.MAINE	20.461
361	GEN	Non Intermittent	388	DARTMOUTH POWER	SEMA-RI	.Z.SEMASS	62.156
362	GEN	Non Intermittent	15415	Dartmouth Power Expansion	SEMA-RI	.Z.SEMASS	20.305
363	GEN	Non Intermittent	465	DEERFIELD 2 LWR DRFIELD	Rest-of-Pool	.Z.WCMASS	19.275
364	GEN	Non Intermittent	393	DEERFIELD 5	Rest-of-Pool	.Z.WCMASS	13.703
365	GEN	Non Intermittent	389	DERBY DAM	Connecticut	.Z.CONNECTICUT	7.050
366	GEN	Non Intermittent	396	DEVON 10	Connecticut	.Z.CONNECTICUT	14.407
367	GEN	Non Intermittent	397	DEVON 11	Connecticut	.Z.CONNECTICUT	29.299
368	GEN	Non Intermittent	398	DEVON 12	Connecticut	.Z.CONNECTICUT	29.227
369	GEN	Non Intermittent	399	DEVON 13	Connecticut	.Z.CONNECTICUT	29.967
370	GEN	Non Intermittent	400	DEVON 14	Connecticut	.Z.CONNECTICUT	29.704
371	GEN	Non Intermittent	12504	Devon 15-18	Connecticut	.Z.CONNECTICUT	187.571
372	GEN	Non Intermittent	392	DEXTER	Connecticut	.Z.CONNECTICUT	38.000
373	GEN	Non Intermittent	16729	DFC-ERG Hybrid Fuel Cell	Connecticut	.Z.CONNECTICUT	2.500
374	GEN	Non Intermittent	16737	DFC-ERG Hybrid Fuel Cell (3)	Connecticut	.Z.CONNECTICUT	2.500
375	GEN	Non Intermittent	395	DOREEN	Rest-of-Pool	.Z.WCMASS	15.959
376	GEN	Non Intermittent	401	EASTMAN FALLS	Rest-of-Pool	.Z.NEWHAMPSHIRE	5.582
377	GEN	Non Intermittent	407	EASTPORT DIESELS 1-3	Rest-of-Pool	.Z.MAINE	2.200
378	GEN	Non Intermittent	405	ELLSWORTH HYDRO	Rest-of-Pool	.Z.MAINE	8.821
379	GEN	Non Intermittent	829	ENOSBURG 2 DIESEL	Rest-of-Pool	.Z.VERMONT	0.598
380	GEN	Non Intermittent	1221	ESSEX DIESELS	Rest-of-Pool	.Z.VERMONT	7.215
381	GEN	Non Intermittent	12108	FIEC DIESEL	Rest-of-Pool	.Z.MAINE	1.640
382	GEN	Non Intermittent	413	FIFE BROOK	Rest-of-Pool	.Z.WCMASS	6.089
383	GEN	Non Intermittent	35485	Fitchburg-FCA-5	Rest-of-Pool	.Z.WCMASS	3.694
384	GEN	Non Intermittent	38089	Footprint Combined Cycle	NEMA-Boston	.Z.NEMASSBOST	674.000
385	GEN	Non Intermittent	1691	FORE RIVER-1	SEMA-RI	.Z.SEMASS	700.000
386	GEN	Non Intermittent	417	FRAMINGHAM JET 1	NEMA-Boston	.Z.NEMASSBOST	10.145
387	GEN	Non Intermittent	418	FRAMINGHAM JET 2	NEMA-Boston	.Z.NEMASSBOST	11.686

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
388	GEN	Non Intermittent	419	FRAMINGHAM JET 3	NEMA-Boston	.Z.NEMASSBOST	11.250
389	GEN	Non Intermittent	420	FRANKLIN DRIVE 10	Connecticut	.Z.CONNECTICUT	15.417
390	GEN	Non Intermittent	421	FRONT STREET DIESELS 1-3	Rest-of-Pool	.Z.WCMASS	8.250
391	GEN	Non Intermittent	10880	GE LYNN EXCESS REPLACEMENT	NEMA-Boston	.Z.NEMASSBOST	0.000
392	GEN	Non Intermittent	796	GOODWIN DAM	Connecticut	.Z.CONNECTICUT	3.000
393	GEN	Non Intermittent	426	GORGE 1 DIESEL	Rest-of-Pool	.Z.VERMONT	7.090
394	GEN	Non Intermittent	1625	GRANITE RIDGE ENERGY	Rest-of-Pool	.Z.NEWHAMPSHIRE	661.322
395	GEN	Non Intermittent	1432	GRS-FALL RIVER	SEMA-RI	.Z.SEMASS	3.113
396	GEN	Non Intermittent	328	GULF ISLAND COMPOSITE Incremental	Rest-of-Pool	.Z.MAINE	38.915
397	GEN	Non Intermittent	1168	H.K. SANDERS	Rest-of-Pool	.Z.VERMONT	1.740
398	GEN	Non Intermittent	435	HARRIMAN	Rest-of-Pool	.Z.WCMASS	38.663
399	GEN	Non Intermittent	432	HARRIS 1	Rest-of-Pool	.Z.MAINE	16.776
400	GEN	Non Intermittent	433	HARRIS 2	Rest-of-Pool	.Z.MAINE	34.500
401	GEN	Non Intermittent	434	HARRIS 3	Rest-of-Pool	.Z.MAINE	33.905
402	GEN	Non Intermittent	757	HARRIS 4	Rest-of-Pool	.Z.MAINE	1.249
403	GEN	Non Intermittent	440	HIRAM	Rest-of-Pool	.Z.MAINE	11.189
404	GEN	Non Intermittent	1631	Indeck-Energy Alexandria, LLC	Rest-of-Pool	.Z.NEWHAMPSHIRE	13.882
405	GEN	Non Intermittent	448	IPSWICH DIESELS	NEMA-Boston	.Z.NEMASSBOST	9.495
406	GEN	Non Intermittent	474	J C MCNEIL	Rest-of-Pool	.Z.VERMONT	52.000
407	GEN	Non Intermittent	359	J. COCKWELL 1	Rest-of-Pool	.Z.WCMASS	284.100
408	GEN	Non Intermittent	360	J. COCKWELL 2	Rest-of-Pool	.Z.WCMASS	283.741
409	GEN	Non Intermittent	449	JACKMAN	Rest-of-Pool	.Z.NEWHAMPSHIRE	3.400
410	GEN	Non Intermittent	1672	KENDALL CT	NEMA-Boston	.Z.NEMASSBOST	153.533
411	GEN	Non Intermittent	452	KENDALL JET 1	NEMA-Boston	.Z.NEMASSBOST	18.000
412	GEN	Non Intermittent	37040	KENDALL STEAM	NEMA-Boston	.Z.NEMASSBOST	27.750
413	GEN	Non Intermittent	14706	Kimberly-Clark Corp Energy Independence Project	Connecticut	.Z.CONNECTICUT	13.375
414	GEN	Non Intermittent	14614	Kleen Energy	Connecticut	.Z.CONNECTICUT	620.000
415	GEN	Non Intermittent	466	L STREET JET	NEMA-Boston	.Z.NEMASSBOST	16.030
416	GEN	Non Intermittent	1342	LAKE ROAD 1	Connecticut	.Z.CONNECTICUT	245.792
417	GEN	Non Intermittent	1343	LAKE ROAD 2	Connecticut	.Z.CONNECTICUT	251.213
418	GEN	Non Intermittent	1344	LAKE ROAD 3	Connecticut	.Z.CONNECTICUT	255.000
419	GEN	Non Intermittent	464	LOST NATION	Rest-of-Pool	.Z.NEWHAMPSHIRE	13.979
420	GEN	Non Intermittent	12521	Lowell Power Reactivation	Rest-of-Pool	.Z.WCMASS	74.000
421	GEN	Non Intermittent	774	LOWER LAMOILLE COMPOSITE	Rest-of-Pool	.Z.VERMONT	15.800
422	GEN	Non Intermittent	472	M STREET JET	NEMA-Boston	.Z.NEMASSBOST	44.434
423	GEN	Non Intermittent	1216	MAINE INDEPENDENCE STATION	Rest-of-Pool	.Z.MAINE	488.276
424	GEN	Non Intermittent	321	MANCHESTER 10 10A CC	SEMA-RI	.Z.RHODEISLAND	149.000
425	GEN	Non Intermittent	322	MANCHESTER 11 11A CC	SEMA-RI	.Z.RHODEISLAND	149.000
426	GEN	Non Intermittent	323	MANCHESTER 9 9A CC	SEMA-RI	.Z.RHODEISLAND	149.000
427	GEN	Non Intermittent	467	MARBLEHEAD DIESELS	NEMA-Boston	.Z.NEMASSBOST	5.000
428	GEN	Non Intermittent	468	MARSHFIELD 6 HYDRO	Rest-of-Pool	.Z.VERMONT	4.535
429	GEN	Non Intermittent	497	MASS POWER	Rest-of-Pool	.Z.WCMASS	240.000
430	GEN	Non Intermittent	38182	MAT-2 (MATEP Combined Cycle)	NEMA-Boston	.Z.NEMASSBOST	13.850

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
431	GEN	Non Intermittent	14087	MAT3	NEMA-Boston	Z.NEMASSBOST	11.573
432	GEN	Non Intermittent	13675	MATEP (COMBINED CYCLE)	NEMA-Boston	Z.NEMASSBOST	43.250
433	GEN	Non Intermittent	13673	MATEP (DIESEL)	NEMA-Boston	Z.NEMASSBOST	17.783
434	GEN	Non Intermittent	473	MCINDOES	Rest-of-Pool	Z.NEWHAMPSHIRE	10.066
435	GEN	Non Intermittent	489	MERRIMACK 1	Rest-of-Pool	Z.NEWHAMPSHIRE	112.500
436	GEN	Non Intermittent	490	MERRIMACK 2	Rest-of-Pool	Z.NEWHAMPSHIRE	330.513
437	GEN	Non Intermittent	382	MERRIMACK CT1	Rest-of-Pool	Z.NEWHAMPSHIRE	16.826
438	GEN	Non Intermittent	383	MERRIMACK CT2	Rest-of-Pool	Z.NEWHAMPSHIRE	16.804
439	GEN	Non Intermittent	775	MIDDLEBURY COMPOSITE	Rest-of-Pool	Z.VERMONT	3.600
440	GEN	Non Intermittent	478	MIDDLETOWN 10	Connecticut	Z.CONNECTICUT	16.319
441	GEN	Non Intermittent	12505	Middletown 12-15	Connecticut	Z.CONNECTICUT	187.600
442	GEN	Non Intermittent	480	MIDDLETOWN 2	Connecticut	Z.CONNECTICUT	117.000
443	GEN	Non Intermittent	481	MIDDLETOWN 3	Connecticut	Z.CONNECTICUT	236.000
444	GEN	Non Intermittent	482	MIDDLETOWN 4	Connecticut	Z.CONNECTICUT	400.000
445	GEN	Non Intermittent	486	MILFORD POWER	SEMA-RI	Z.SEMASS	149.000
446	GEN	Non Intermittent	1385	Milford Power 1 Incremental	Connecticut	Z.CONNECTICUT	253.610
447	GEN	Non Intermittent	1386	MILFORD POWER 2	Connecticut	Z.CONNECTICUT	253.093
448	GEN	Non Intermittent	1210	MILLENNIUM	Rest-of-Pool	Z.WCMASS	331.000
449	GEN	Non Intermittent	484	MILLSTONE POINT 2	Connecticut	Z.CONNECTICUT	875.260
450	GEN	Non Intermittent	485	MILLSTONE POINT 3	Connecticut	Z.CONNECTICUT	1,225.000
451	GEN	Non Intermittent	492	MONTVILLE 10 and 11	Connecticut	Z.CONNECTICUT	5.296
452	GEN	Non Intermittent	493	MONTVILLE 5	Connecticut	Z.CONNECTICUT	81.000
453	GEN	Non Intermittent	494	MONTVILLE 6	Connecticut	Z.CONNECTICUT	406.183
454	GEN	Non Intermittent	495	MONTY	Rest-of-Pool	Z.MAINE	28.000
455	GEN	Non Intermittent	496	MOORE	Rest-of-Pool	Z.NEWHAMPSHIRE	189.032
456	GEN	Non Intermittent	35728	Moretown LG	Rest-of-Pool	Z.VERMONT	4.608
457	GEN	Non Intermittent	498	MT TOM	Rest-of-Pool	Z.WCMASS	142.881
458	GEN	Non Intermittent	502	MYSTIC 7	NEMA-Boston	Z.NEMASSBOST	575.472
459	GEN	Non Intermittent	1478	MYSTIC 8	NEMA-Boston	Z.NEMASSBOST	703.324
460	GEN	Non Intermittent	1616	MYSTIC 9	NEMA-Boston	Z.NEMASSBOST	708.612
461	GEN	Non Intermittent	503	MYSTIC JET	NEMA-Boston	Z.NEMASSBOST	8.589
462	GEN	Non Intermittent	776	N. RUTLAND COMPOSITE	Rest-of-Pool	Z.VERMONT	5.200
463	GEN	Non Intermittent	1649	NAEA Newington Energy, LLC	Rest-of-Pool	Z.NEWHAMPSHIRE	522.014
464	GEN	Non Intermittent	507	NEA BELLINGHAM	SEMA-RI	Z.SEMASS	277.621
465	GEN	Non Intermittent	10308	NECCO COGENERATION FACILITY	NEMA-Boston	Z.NEMASSBOST	4.871
466	GEN	Non Intermittent	513	NEW HAVEN HARBOR	Connecticut	Z.CONNECTICUT	447.894
467	GEN	Non Intermittent	15477	New Haven Harbor Units 2, 3, & 4	Connecticut	Z.CONNECTICUT	129.600
468	GEN	Non Intermittent	508	NEWINGTON 1	Rest-of-Pool	Z.NEWHAMPSHIRE	400.200
469	GEN	Non Intermittent	16688	Nor1	Connecticut	Z.CONNECTICUT	1.950
470	GEN	Non Intermittent	16750	Norden #2	Connecticut	Z.CONNECTICUT	1.947
471	GEN	Non Intermittent	16752	Norden #3	Connecticut	Z.CONNECTICUT	1.942
472	GEN	Non Intermittent	14217	NORTHFIELD MOUNTAIN 1	Rest-of-Pool	Z.WCMASS	292.000
473	GEN	Non Intermittent	14218	NORTHFIELD MOUNTAIN 2	Rest-of-Pool	Z.WCMASS	270.000

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
474	GEN	Non Intermittent	14219	NORTHFIELD MOUNTAIN 3	Rest-of-Pool	.Z.WCMASS	292.000
475	GEN	Non Intermittent	14220	NORTHFIELD MOUNTAIN 4	Rest-of-Pool	.Z.WCMASS	292.000
476	GEN	Non Intermittent	515	NORWICH JET	Connecticut	.Z.CONNECTICUT	15.255
477	GEN	Non Intermittent	1030	OAK BLUFFS	SEMA-RI	.Z.SEMASS	8.120
478	GEN	Non Intermittent	528	OCEAN ST PWR GT1 GT2 ST1	SEMA-RI	.Z.RHODEISLAND	270.901
479	GEN	Non Intermittent	529	OCEAN ST PWR GT3 GT4 ST2	SEMA-RI	.Z.RHODEISLAND	270.180
480	GEN	Non Intermittent	531	PAWTUCKET POWER	SEMA-RI	.Z.RHODEISLAND	59.810
481	GEN	Non Intermittent	12526	Pierce	Connecticut	.Z.CONNECTICUT	76.515
482	GEN	Non Intermittent	537	PILGRIM NUCLEAR POWER STATION	SEMA-RI	.Z.SEMASS	677.284
483	GEN	Non Intermittent	538	PINETREE POWER	Rest-of-Pool	.Z.WCMASS	15.783
484	GEN	Non Intermittent	15509	Plainfield Renewable Energy	Connecticut	.Z.CONNECTICUT	35.201
485	GEN	Non Intermittent	540	POTTER 2 CC	SEMA-RI	.Z.SEMASS	73.927
486	GEN	Non Intermittent	12163	PPL GREAT WORKS - RED SHIELD	Rest-of-Pool	.Z.MAINE	0.000
487	GEN	Non Intermittent	1376	PPL WALLINGFORD UNIT 1	Connecticut	.Z.CONNECTICUT	45.000
488	GEN	Non Intermittent	1377	PPL WALLINGFORD UNIT 2	Connecticut	.Z.CONNECTICUT	45.000
489	GEN	Non Intermittent	1378	PPL WALLINGFORD UNIT 3	Connecticut	.Z.CONNECTICUT	45.000
490	GEN	Non Intermittent	1379	PPL WALLINGFORD UNIT 4	Connecticut	.Z.CONNECTICUT	44.710
491	GEN	Non Intermittent	1380	PPL WALLINGFORD UNIT 5	Connecticut	.Z.CONNECTICUT	45.000
492	GEN	Non Intermittent	35658	Rainbow_1	Connecticut	.Z.CONNECTICUT	4.100
493	GEN	Non Intermittent	35656	Rainbow_2	Connecticut	.Z.CONNECTICUT	4.100
494	GEN	Non Intermittent	546	RESCO SAUGUS	NEMA-Boston	.Z.NEMASSBOST	30.114
495	GEN	Non Intermittent	14599	Rhode Island LFG Genco, LLC - ST	SEMA-RI	.Z.RHODEISLAND	26.000
496	GEN	Non Intermittent	1630	RISEP	SEMA-RI	.Z.RHODEISLAND	543.455
497	GEN	Non Intermittent	715	ROCHESTER LANDFILL	Rest-of-Pool	.Z.NEWHAMPSHIRE	2.353
498	GEN	Non Intermittent	739	ROCKY RIVER	Connecticut	.Z.CONNECTICUT	29.001
499	GEN	Non Intermittent	1255	RUMFORD POWER	Rest-of-Pool	.Z.MAINE	244.281
500	GEN	Non Intermittent	549	RUTLAND 5 GT	Rest-of-Pool	.Z.VERMONT	8.406
501	GEN	Non Intermittent	591	S.D. WARREN-WESTBROOK	Rest-of-Pool	.Z.MAINE	42.590
502	GEN	Non Intermittent	556	SCHILLER 4	Rest-of-Pool	.Z.NEWHAMPSHIRE	47.500
503	GEN	Non Intermittent	557	SCHILLER 5	Rest-of-Pool	.Z.NEWHAMPSHIRE	42.594
504	GEN	Non Intermittent	558	SCHILLER 6	Rest-of-Pool	.Z.NEWHAMPSHIRE	47.938
505	GEN	Non Intermittent	559	SCHILLER CT 1	Rest-of-Pool	.Z.NEWHAMPSHIRE	17.621
506	GEN	Non Intermittent	555	SEABROOK	Rest-of-Pool	.Z.NEWHAMPSHIRE	1,246.225
507	GEN	Non Intermittent	561	SEARSBURG	Rest-of-Pool	.Z.WCMASS	4.755
508	GEN	Non Intermittent	566	SHEPAUG	Connecticut	.Z.CONNECTICUT	41.511
509	GEN	Non Intermittent	567	SHERMAN	Rest-of-Pool	.Z.WCMASS	6.154
510	GEN	Non Intermittent	35657	Shrewsbury Diesels	Rest-of-Pool	.Z.WCMASS	13.700
511	GEN	Non Intermittent	569	SKELTON	Rest-of-Pool	.Z.MAINE	22.080
512	GEN	Non Intermittent	572	SO. MEADOW 11	Connecticut	.Z.CONNECTICUT	35.781
513	GEN	Non Intermittent	573	SO. MEADOW 12	Connecticut	.Z.CONNECTICUT	37.701
514	GEN	Non Intermittent	574	SO. MEADOW 13	Connecticut	.Z.CONNECTICUT	38.317
515	GEN	Non Intermittent	575	SO. MEADOW 14	Connecticut	.Z.CONNECTICUT	36.746
516	GEN	Non Intermittent	38178	Southbridge Landfill Gas to Energy 17-18	Rest-of-Pool	.Z.WCMASS	1.400

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
517	GEN	Non Intermittent	1495	SOUTHBRIDGE P&T QF U5	Rest-of-Pool	.Z.WCMASS	0.149
518	GEN	Non Intermittent	587	STEVENSON	Connecticut	.Z.CONNECTICUT	28.311
519	GEN	Non Intermittent	583	STONY BROOK 2A	Rest-of-Pool	.Z.WCMASS	67.000
520	GEN	Non Intermittent	584	STONY BROOK 2B	Rest-of-Pool	.Z.WCMASS	65.000
521	GEN	Non Intermittent	1185	STONY BROOK GT1A	Rest-of-Pool	.Z.WCMASS	103.167
522	GEN	Non Intermittent	1186	STONY BROOK GT1B	Rest-of-Pool	.Z.WCMASS	100.000
523	GEN	Non Intermittent	1187	STONY BROOK GT1C	Rest-of-Pool	.Z.WCMASS	103.167
524	GEN	Non Intermittent	12510	Swanton Gas Turbine 1	Rest-of-Pool	.Z.VERMONT	19.372
525	GEN	Non Intermittent	12511	Swanton Gas Turbine 2	Rest-of-Pool	.Z.VERMONT	19.536
526	GEN	Non Intermittent	12500	Thomas A. Watson	SEMA-RI	.Z.SEMASS	105.200
527	GEN	Non Intermittent	1226	TIVERTON POWER	SEMA-RI	.Z.RHODEISLAND	244.086
528	GEN	Non Intermittent	595	TORRINGTON TERMINAL 10	Connecticut	.Z.CONNECTICUT	15.638
529	GEN	Non Intermittent	803	TOUTANT	Connecticut	.Z.CONNECTICUT	0.251
530	GEN	Non Intermittent	596	TUNNEL 10	Connecticut	.Z.CONNECTICUT	16.706
531	GEN	Non Intermittent	12509	UNH Power Plant	Rest-of-Pool	.Z.NEWHAMPSHIRE	2.000
532	GEN	Non Intermittent	598	VERGENNES 5 and 6 DIESELS	Rest-of-Pool	.Z.VERMONT	3.940
533	GEN	Non Intermittent	599	VERNON	Rest-of-Pool	.Z.WCMASS	32.000
534	GEN	Non Intermittent	13703	Verso VCG1	Rest-of-Pool	.Z.MAINE	42.606
535	GEN	Non Intermittent	13704	Verso VCG2	Rest-of-Pool	.Z.MAINE	45.167
536	GEN	Non Intermittent	13705	Verso VCG3	Rest-of-Pool	.Z.MAINE	43.768
537	GEN	Non Intermittent	614	WATERBURY 22	Rest-of-Pool	.Z.VERMONT	5.000
538	GEN	Non Intermittent	12564	Waterbury Generation Facility	Connecticut	.Z.CONNECTICUT	96.349
539	GEN	Non Intermittent	612	WATERS RIVER JET 1	NEMA-Boston	.Z.NEMASSBOST	16.050
540	GEN	Non Intermittent	613	WATERS RIVER JET 2	NEMA-Boston	.Z.NEMASSBOST	33.756
541	GEN	Non Intermittent	11842	WATERSIDE POWER	Connecticut	.Z.CONNECTICUT	70.937
542	GEN	Non Intermittent	625	WEST MEDWAY JET 1	NEMA-Boston	.Z.NEMASSBOST	42.000
543	GEN	Non Intermittent	626	WEST MEDWAY JET 2	NEMA-Boston	.Z.NEMASSBOST	40.835
544	GEN	Non Intermittent	627	WEST MEDWAY JET 3	SEMA-RI	.Z.SEMASS	35.441
545	GEN	Non Intermittent	630	WEST SPRINGFIELD 10	Rest-of-Pool	.Z.WCMASS	17.143
546	GEN	Non Intermittent	633	WEST SPRINGFIELD 3	Rest-of-Pool	.Z.WCMASS	94.276
547	GEN	Non Intermittent	1693	WEST SPRINGFIELD GT-1	Rest-of-Pool	.Z.WCMASS	36.908
548	GEN	Non Intermittent	1694	WEST SPRINGFIELD GT-2	Rest-of-Pool	.Z.WCMASS	37.441
549	GEN	Non Intermittent	1031	WEST TISBURY	SEMA-RI	.Z.SEMASS	5.524
550	GEN	Non Intermittent	1345	WESTBROOK	Rest-of-Pool	.Z.MAINE	530.000
551	GEN	Non Intermittent	619	WHITE LAKE JET	Rest-of-Pool	.Z.NEWHAMPSHIRE	17.447
552	GEN	Non Intermittent	620	WILDER	Rest-of-Pool	.Z.NEWHAMPSHIRE	41.073
553	GEN	Non Intermittent	621	WILLIAMS	Rest-of-Pool	.Z.MAINE	14.900
554	GEN	Non Intermittent	624	WMI MILLBURY 1	Rest-of-Pool	.Z.WCMASS	39.811
555	GEN	Non Intermittent	14663	WMRE Crossroads	Rest-of-Pool	.Z.MAINE	2.806
556	GEN	Non Intermittent	628	WOODLAND ROAD	Rest-of-Pool	.Z.WCMASS	15.808
557	GEN	Non Intermittent	636	WYMAN HYDRO 1	Rest-of-Pool	.Z.MAINE	28.500
558	GEN	Non Intermittent	637	WYMAN HYDRO 2	Rest-of-Pool	.Z.MAINE	29.866
559	GEN	Non Intermittent	638	WYMAN HYDRO 3	Rest-of-Pool	.Z.MAINE	26.430

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
560	GEN	Non Intermittent	639	YARMOUTH 1	Rest-of-Pool	.Z.MAINE	0.000
561	GEN	Non Intermittent	640	YARMOUTH 2	Rest-of-Pool	.Z.MAINE	51.131
562	GEN	Non Intermittent	641	YARMOUTH 3	Rest-of-Pool	.Z.MAINE	115.173
563	GEN	Non Intermittent	642	YARMOUTH 4	Rest-of-Pool	.Z.MAINE	603.225
COUNT OF GENERATION: 563					SUBTOTAL GENERATION MW: 29,726.798		

Item #	Resource Type	Resource Sub-type	Resource ID	Resource Name	Capacity Zone	Load Zone/ Interface Name	FCA Qualified Capacity (MW)
1	IMPORT	Resource Backed	12450	NYP A - CMR	Rest-of-Pool	New York AC Ties	68.800
2	IMPORT	Resource Backed	12451	NYP A - VT	Rest-of-Pool	New York AC Ties	14.000
3	IMPORT	Resource Backed	12452	VJO - Highgate	Rest-of-Pool	Hydro-Quebec Highgate	6.000
COUNT OF IMPORT: 3					SUBTOTAL IMPORT MW: 88.800		

Attachment D

New Generating, Import and Demand Resource Capacity

REDACTED

Contains Privileged Information

Attachment E

Summary of All De-List Bids Submitted

REDACTED

Contains Privileged Information

Attachment F
Significant Increases

REDACTED

Contains Privileged Information

Attachment G

**Major Elements in the Determination of Expected Net Revenues -
Generation**

REDACTED

Contains Privileged Information

Attachment H

**Major Elements in the Determination of Expected Net Revenues –
Demand Resources**

REDACTED

Contains Privileged Information

Attachment I

**Notifications Sent to Resources That Were Not Qualified to Participate
in the FCA**

REDACTED

Contains Privileged Information

Attachment J

Methodology Used by IMM in Establishing an Alternative De-List Bid Value When the IMM Rejected Some or All of the Components of the Participant-submitted De-List Bids



Attachment B to QDNs

Internal Market Monitor Review of De-list Bids
for the Ninth Forward Capacity Auction:
A Methodology Document

ISO New England Inc.
Internal Market Monitor
September 26, 2014

1. Introduction

Pursuant to Section III.13.1.2.3.2 of the Tariff,¹ the Internal Market Monitor (“IMM”) must review Export Bids and Static and Permanent De-list Bids submitted by Market Participants (“participants”) above the Dynamic De-list Bid Threshold of \$3.94/kW-month. Specifically, the IMM must determine if the de-list bid is consistent with the four cost components comprising a de-list bid; (1) the participant’s net going forward costs for the resource, (2) the participant’s reasonable expectations of the resource’s Capacity Performance Payments, (3) the participant’s reasonable risk premium, and (4) opportunity costs.

After due consideration and consultation with a Market Participant, if the IMM determines that the participant’s de-list bid is inconsistent with reasonable estimates of any of those four elements of the de-list bid, and if the participant is a pivotal supplier as defined in Section III.13.1.2.3.2 of the Tariff, then the de-list bid must be rejected and mitigated to the IMM’s estimated de-list bid. For the Capacity Commitment Period 2018/19 corresponding to the ninth Forward Capacity Auction (“FCA”) all participants with existing resources are pivotal suppliers and are therefore subject to potential mitigation.

This document sets out the approach and methodology followed by the IMM in establishing an alternative de-list bid value when the IMM rejected some or all of the components of the participant-submitted de-list bid. The resource-specific Qualification Determination Notification (“QDN”) provides additional detail on why the IMM rejected a component of a participant-submitted de-list bid and replaced it with the value calculated using the methodology described here. This document covers the first three components of the de-list bid. For FCA9 no participants included opportunity costs in their submitted de-list bids.

2. Overview of IMM Approach to Evaluating De-list Bids

a. IMM De-List Bid Calculation

¹ All references to the Forward Capacity Market de-list bid rules are to the version filed in *ISO New England Inc. and New England Power Pool, Compliance Filing of Two-Settlement Forward Capacity Market Design* (filed July 14, 2014), Docket Nos. EL14-52-000 and ER14-2419, available at <http://www.iso-ne.com/participate/filings-orders/ferc-filings>. See also *ISO New England Inc. and New England Power Pool, Filings of Market Rule Changes To Implement Pay For Performance in the Forward Capacity Market*, Docket No. ER14-1050-000 (filed January 17, 2014), available at <http://www.iso-ne.com/participate/filings-orders/ferc-filings>.

In calculating an alternative de-list bid, the IMM considered the minimum de-list bid price to be the participant's expected cost of the financial obligation taken on by acquiring a Capacity Supply Obligation ("CSO") under PFP, relative to its next best alternative: either remaining active in the energy market without a CSO, or becoming inactive entirely.²

The cost of the financial obligation associated with a CSO under the Pay-for-Performance capacity market construct ("PFP") corresponds to the obligation to deliver energy (or reserves) equal to the resource's share of total Installed Capacity Requirement ("ICR") during Capacity Scarcity Conditions, which can be avoided by foregoing a CSO. This equals $CSO * PPR * H * Br$, where:

CSO: Capacity Supply Obligation, in MW

PPR: Performance Payment Rate, which is \$2,000/MWh for FCA9

Br: Balancing Ratio

H: Number of expected Capacity Scarcity Conditions for the Capacity Commitment Period, in hours per year.

Because a participant can avoid this cost by foregoing a CSO, they should require base payments of at least this level to be willing to acquire the CSO. Thus, this expected cost of the share of system obligation under PFP is a Market Participant's *minimum* de-list bid.

The de-list bid must also take account of the participant's next best alternative: the resource will either remain active in the energy and ancillary services markets without a CSO, or it will become inactive in the energy and ancillary services markets without a CSO.

For a resource that the participant indicates would remain active, the de-list bid b (per CSO MW) is based on the following formula:

$$b = PPR * Br * H + NGFC_{active} + RP$$

where $NGFC_{active}$ is the resource's going forward cost that would be avoided by the participant by not taking on the CSO but still remaining active (at the participant's discretion) in the energy and ancillary services markets, and RP is a resource-specific risk premium that may be appropriate for a risk-averse Market Participant.

² The IMM's de-list bid training workshop conducted on April 28 and 29 of 2014 covered, in detail, the methodology explained here for calculating de-list bids, under the section that addresses the optimal competitive bidding strategies under Pay-for-Performance. The training materials are available on the ISO's website at http://www.iso-ne.com/static-assets/documents/2014/08/fcm_delist_april_28-29_2014.pdf

For a resource that a participant indicates would not remain active without a CSO, the de-list bid b (per CSO MW) is based on the following formula:

$$b = PPR * Br * H + \max\{0, NGFC_{inactive} - PPR * A * H\} + RP$$

where A is the resource's expected average performance per unit of CSO (averaged over all Capacity Scarcity Condition hours during the Capacity Commitment Period), and $NGFC_{inactive}$ is the going forward cost that would be avoided by not taking on the CSO and mothballing (or retiring) the resource. This formula reflects, in the subtraction of $PPR * A * H$, the fact that when a resource becomes inactive it willingly foregoes the energy and reserve payments that it would otherwise be entitled to were it to remain active for the commitment period. Note also that the decision of whether a resource should remain active or become mothballed has implications for the risk premium component, which appears as the term RP in the formula above, as discussed further in Section 5.

b. Use of published 2010 through 2014 scarcity conditions data and study results in IMM review.

Calculation of a bid reflecting reasonable estimates of the expected cost of the share-of-system performance obligation, as well as future Capacity Performance Payments (which may be positive or negative), can be based, in part, on information regarding past Capacity Scarcity Conditions in the New England system and simulation studies of scarcity conditions when the system is “at criteria,” meaning that sufficient capacity has been procured to meet the 1 day in 10 years resource adequacy planning criteria. In May 2014, at the request of a number of participants in advance of submitting de-list bids, the ISO published a memo and a spreadsheet providing details of historical Capacity Scarcity Conditions and corresponding Balancing Ratio values. The memo and spreadsheet included the historical data from January 2010 through April 2014 on the number of scarcity condition hours under current and prior Reserve Constraint Penalty Factor (“RCPF”) values, details on when the conditions occurred by time of day and season, their duration, and the values for the system Balancing Ratio during these scarcity conditions.³ In addition, the ISO published in July 2013 simulation study results on the expected value and percentiles of Capacity Scarcity Condition hours when the New England system is “at criteria” and at various capacity surplus levels, which are useful given recent changes in total installed capacity levels.⁴

³ Materials available at http://www.iso-ne.com/static-assets/documents/markets/othrmkts_data/fcm/doc/opr_reserve_deficiency_info_hist_data_updated_5_21_2014.zip

⁴ See July 2013 Markets Committee memo to NEPOOL on ‘Operating Reserve Deficiency Information – At Criteria And Extended Results’ at http://www.iso-ne.com/committees/comm_wkgrps/mrks_comm/mrks/mtrls/2013/jul10112013/a12a_iso_memo_07_05_13.pdf

Collectively, all of these data were intended to provide participants with a useful baseline for forming reasonable estimates of the parameters H and Br , as defined above, for the corresponding 2018/19 Capacity Commitment Period. Where estimates contained in a participant's de-list bid were based on data that varied significantly from the data provided by the IMM, the IMM requested additional explanation from the participant on the reasonableness of its estimates and the use of the underlying data. Where that additional explanation was inadequate, the IMM utilized the data provided by the IMM and ISO in evaluating the participant's de-list bid and calculating any alternative values.

3. Net Going Forward Costs

The IMM reviewed net going forward costs in accordance with Section III.13.1.2.3.2.1.2 of the Tariff. The IMM provides participants with a cost workbook to use as the basis for the de-list bid calculations.⁵ In addition to the completed cost workbook, participants are required to submit supporting documentation and information that would assist the IMM in validating the submissions and in making its determination. Further, all de-list bids are required to include an affidavit from a corporate officer attesting to the accuracy of the participant's submitted costs and estimates. The IMM reviewed each de-list bid for compliance with the above requirements and consulted with participants, as needed, asking clarifying questions to help resolve deficiencies in the participant's submittal. Where submitted values were significantly different from the IMM's calculation, and where the participant did not provide sufficient support for that value, the IMM's estimate was substituted for the value submitted by the participant in the approved de-list bid.

The IMM undertook a detailed review of the submitted net going forward cost data with particular emphasis on the following areas:

- a) The reasonableness of the avoidable operating costs relative to historical operating costs, considering the following:
 - Whether the bid was a static or a permanent de-list bid. In general, a participant will have greater avoidable costs if a resource permanently exits the capacity market versus becoming inactive for a Capacity Commitment Period;
 - Consistency of avoidable costs with the participant's election either (a) to remain in the energy and ancillary services markets without a CSO, or (b) to mothball the resource for the

⁵ The cost workbook and guidelines document can be found at http://www.iso-ne.com/static-assets/documents/markets/othrmkts_data/fcm/qual/forms/de_list_temp_and_manuals.zip

Capacity Commitment Period. In general, a participant's avoidable costs are lower if the resource continues operation in energy and ancillary services markets, compared to mothballing the plant;

- Whether adequate documentation and a sound methodology was provided demonstrating the avoidance of major expenditures such as centralized corporate overhead costs allocated to individual market regions or resources;
- Consistency in the use of annual historical cost and revenue data, for instance using the most recent year's data or an average of two of the past three year's data;
- Reasonableness of any adjustments to historical operating and production cost data, and to ISO revenue data, including adjustments to account for expected inframarginal rents ("IMR") and Peak Energy Rents ("PER");
- Comparison of costs submitted for FCA8 versus FCA9 for participants that submitted de-list bids for the same resource in both auctions;
- Comparison of costs across comparable resources; and
- Correctness of numerical calculations.

b) The reasonableness of avoidable incremental capital costs, considering the following:

- Whether documentation was provided to support the inclusion of major capital expenditures, such as engineering reports, benchmark cost data, or feasibility studies;
- Whether the calculation of annualized costs was done in accordance with the cost recovery schedule prescribed in Section III.13.1.2.3.2.5; and
- Whether such costs were avoidable in the absence of a CSO for the Capacity Commitment Period, and whether such costs were already included in a previous year's de-list bid that did not clear in a prior auction (*i.e.*, retained a CSO).

Station Common Costs among resources at a Station were allocated in accordance with Section III.13.1.2.3.1.6.3 of the Tariff.

The IMM's determination of a reasonable value of NGFCs is entered into the relevant de-list bid formula shown in Section 2 of this document, with the relevant formula dependant on whether the NGFCs were provided on the basis of the resource remaining active in the energy and ancillary services market or becoming inactive and mothballing or retiring the resource.

4. Expected Capacity Performance Payments

The treatment of expected Capacity Performance Payments (or “CPP”, which may be positive or negative) in a de-list bid is described in Section III.13.1.2.3.2.1.3 of the Tariff. The following sections describe the IMM’s methodology for evaluating the participant-submitted CPP calculation.

4.1 Summary of Capacity Performance Payment calculation

To complete its evaluation, the IMM accepted each participant’s expected number of Capacity Scarcity Condition hours (H), and performed an evaluation of each participant’s submittal of (1) expected average performance per unit of CSO during a Capacity Scarcity Condition (A), and (2) expected average Balancing Ratio (Br). In situations where one or both of the (A) and (Br) components in the participant-submitted CPP values was significantly different from the IMM’s calculation, and where the participant did not provide sufficient support for that component, the IMM substituted its alternative estimate of expected CPP values for the value submitted by the participant in the approved de-list bid. The IMM consulted with participants, as needed, asking clarifying questions to help resolve deficiencies in the participant’s submittal.

The values of each component of the CPP calculation, A , H and Br are entered into the relevant de-list bid formula shown in Section 2 of this document.

4.2 Overview of Calculation of Capacity Performance Payments

The methodology for determining the CPP component of the de-list bids is prescribed in the Tariff as follows:

$$CSO * PPR * H * (A - Br)$$

Each term in this formula has the same definition as in Section 2 above, namely:

- CSO: Capacity Supply Obligation, in MW
- PPR: Performance Payment Rate, which is \$2,000/MWh for FCA9
- A: Expected average performance per unit of CSO during a Capacity Scarcity Condition
- Br: Expected average Balancing Ratio

H: Number of expected Capacity Scarcity Condition hours during the Capacity Commitment Period

Participants are required to submit documentation for each de-list bid detailing their calculation of the resource's expected Capacity Performance Payments. The documentation must include details on the assumed expected values for A , Br and H .

In performing its evaluation of submitted A , Br and H values, the IMM relied upon historical data from January 2010 through April 2014 on the number of Capacity Scarcity Condition hours under current and prior Reserve Constraint Penalty Factor (RCPF) values, details on when the Capacity Scarcity Conditions occurred by time of day and season, the duration of Capacity Scarcity Conditions, and the corresponding values for the system Balancing Ratio during the Capacity Scarcity Conditions, all of which are important inputs into the calculation of A , Br and H values. The data relied upon by the IMM was the same data that the ISO published and provided in May 2014, also outlined in Section 2 above.

The IMM evaluated each submission to ensure that the components reflected the expected value (mean) of possible future outcomes, rather than accounting for potential deviation from the expected value, which is appropriately reflected in the risk premium component. Variability in both H and A around the expected value are addressed in the IMM's evaluation of the risk premium component of de-list bids in Section 5.

4.3 Capacity Scarcity Condition Hours (“H”)

In its evaluation the IMM relied on the estimates of H from the ISO system simulation study summarized in the July 5, 2013, memorandum *Operating Reserve Deficiency Information – At Criteria and Extended Results*, (“July 5 Reserve Deficiency Memo”) to determine the reasonableness of submitted values representing expectations for 2018/19.⁶ Participants' submitted values for H were within a reasonable range, relative to the ISO's simulation study results as described in the memorandum.

However, the seasonal period in which the Capacity Scarcity Conditions hours occur is an important factor to accurately account for in order to calculate reasonable CPP values (in particular the expected future performance (A) and Balancing Ratio (Br) components corresponding to the Capacity Scarcity Conditions). Establishing assumptions at this level of granularity is important because a resource's

⁶ See http://www.iso-ne.com/committees/comm_wkgrps/mrkt comm/mrkt/mtrls/2013/jul10112013/a12a_iso_memo_07_05_13.pdf

average performance during a Capacity Scarcity Condition (A) can vary significantly depending on the season. Therefore, in cases where the participant did not provide a breakout of H into appropriate periods, when calculating a resource's expected future performance (A) and Balancing Ratios (Br) the IMM applied a breakdown of Capacity Scarcity Condition hours reflecting the following seasonal and time-of-day allocations to the participant's total expected H :

Table 1:

	<u>Allocation of H</u>
Summer Peak	79%
Winter Peak	14%
Off-Peak	7%

The definition and relative proportion of these three types of reserve shortages are as follows:

1. "Summer Peak" hours include all peak hours in June, July, and August through September 15, where peak hours are the hours between 7am and 11pm, Monday through Friday excluding NERC holidays. The expected future level of Summer Peak reserve shortages is based on market simulations performed by the ISO, as reported in Table 1 of ISO's July 5 Reserve Deficiency Memo.
2. "Winter Peak" hours include all peak hours in December, January, and February and hours when the Balancing Ratio was greater than or equal to 0.6. Winter Peak H Mean is the annual average of winter peak reserve shortage hours in the 2012-2013 and 2013-2014 winter seasons.
3. "Off-Peak" hours include all other events that are not Summer Peak or Winter Peak events (*i.e.*, all events that occur off-peak or occur during Spring or Fall). Off-Peak H Mean is the annual average of off-peak reserve shortage hours from 2010 through 2013.

4.4 Resource average performance during Capacity Scarcity Condition Hours ("A")

A resource's average performance during Capacity Scarcity Condition hours, or "A," measures the resource's delivered energy and reserves during a Capacity Scarcity Condition as a fraction of its CSO.

In formula, it is expressed as:

$$A = \frac{\text{Energy} + \text{Reserves}}{H \times \text{CSO}}$$

Where the numerator, *Energy + Reserves*, is the total MWh of energy and reserves the resource expects to deliver during all Capacity Scarcity Condition hours over the course of the Capacity Commitment Period. The value of *A* is a number normally between zero and one.

The relationship between a resource's value of *A* and the Balancing Ratio ("Br") determines whether the resource over- or under-performs compared to its share of the total system obligation, and consequently whether its annual Capacity Performance Payments will be a net credit or a net charge. The performance of a resource can depend on many factors, including the season in which the Capacity Scarcity Condition occurs, expected load conditions prior to and during the Capacity Scarcity Condition, and the duration of the condition. For example, a high operating-cost resource with a long start-up time will be less likely to be on-line and available during an unanticipated Capacity Scarcity Condition that occurs in an off-peak, lower-load period. On the other hand, the same unit is more likely to be online and performing during an anticipated longer duration Capacity Scarcity Condition in the high-load summer peak period.

When a participant's submission included an expected value of *A* that did not reflect seasonality, load conditions and/or duration of Capacity Scarcity Conditions in the Capacity Commitment Period, the IMM calculated an appropriately time-weighted value for *A* using resource-specific historical average performance from January 2010 through April 2014. The resource-specific historical average performance during Capacity Scarcity Conditions was obtained from ISO system data on the resource's energy and reserves provided during historical actual and simulated Capacity Scarcity Conditions, using current RCPF values. The IMM then adjusted the actual historical performance to account for the difference between historical and expected future allocations of Capacity Scarcity Condition hours across seasons and time of day.

Some participants did not apply a duration weighting to their historical or simulated *A* values. Using an example to illustrate the need to weight the duration of Capacity Scarcity Conditions when calculating a historical average *A*, assume an average performance of 80% during a summer On-Peak period spanning two hours and an average performance of 40% during a winter On-Peak shortage condition with duration of 1 hour. This translates to a weighted average performance of 70%, which is a more accurate measure of average performance than a simple average of 60%. When a participant's submission did not apply duration weighting in the calculation of its *A* values, the IMM factored in duration weighting in re-calculating the *A* values for the participant's de-list bids.

4.5 Balancing Ratios ("Br") during Capacity Scarcity Conditions

The Balancing Ratio measures the proportion of total system CSO required, in the form of energy and reserves, during a Capacity Scarcity Condition. It can be expressed as a formula in terms of CSO values, load and required reserves, as

$$Br = \frac{\text{Load} + \text{Required Reserve}}{\text{Total CSO}}$$

In reviewing market participants' de-list bid assumptions the IMM adopted the following approach. If a participant provided a value for the Balancing Ratio without any supporting detail on the underlying assumptions, or if the value did not reflect a reasonable estimate of future market conditions, the IMM substituted a value for the Balancing Ratio that it calculated using the same data provided to participants in the July 5, 2013 memo. The IMM's calculations reflect Capacity Scarcity Conditions observed from January 2010 through April 2014, with adjustments. The adjustments accounted for differences between historical and expected future occurrences of scarcity conditions across seasons due to changes in underlying market conditions, as reflected in Table 1. The IMM's final calculated weighted-average Balancing Ratio value is 0.85.

5. Risk Premium

Section III.13.1.2.3.2.1.4 of the Tariff allows participants to include in their de-list bids risks that can be quantified and analytically supported. The IMM consulted with each participant, asking detailed questions regarding the assumptions and methodology underlying their calculations and requesting information demonstrating that the risk premium submitted is consistent with the company's risk management practices. The IMM also performed an independent evaluation of each submission by developing a benchmark model for estimating a participant's risk premiums within reasonable range. Where submitted risk premium values were significantly higher than the results of the IMM's benchmark model, and the differences were unexplained or insufficiently supported, the IMM's estimate was used in place of the participant's submitted risk premium in the approved de-list bid.

5.1 IMM Observations on Submitted Risk Premiums

The IMM consulted with participants who included a significant risk premium component in de-list bids, and which seemed to indicate a level of risk tolerance inconsistent with what one might expect in the

competitive power generation industry. The IMM generally found submissions to be deficient in considering risk in a balanced risk/return framework.

Specifically, when participants accounted for so-called “lower tail” risk of large losses in their de-list bids, these risks frequently reflected a dollar-for-dollar tradeoff between risk and return. For example, where a participant calculated potential losses at the 95th percentile to be \$3/kW-month, that total \$3/kW-month low-probability loss was added to the de-list bid. The participant did not consider the fact that pricing risk this way has an opportunity cost in the form of lower expected profits overall should the resource clear in the auction (*i.e.*, not retain a CSO). While the IMM agrees that an industry-standard Value-at-Risk (“VAR”) approach is an acceptable framework for participants to manage and measure risk in the context of the PFP capacity market, the IMM disagrees with the approach taken by many participants of pricing the resulting total exposure (negative income) from a VAR stress test model into a resource’s de-list bid; that approach ignores (sometimes entirely) the reduction in expected profit associated with the risk premium adjustment if the resource clears in the FCA. The risk of clearing in the FCA will tend to attenuate the risk associated with higher-than-expected PFP losses (as evaluated in a VAR stress test model) on the risk premium, and ignoring this risk can therefore produce inappropriately inflated de-list bid prices. Further, the IMM does not believe that this “total exposure” approach to pricing risk is consistent with how participants, in practice, manage their power market portfolios.

As background, VAR is a probabilistic simulation technique designed to estimate the maximum loss a participant or resource is likely to incur with a given frequency (*e.g.*, once in 10 years, or once in 20 years, or some other specific threshold). VAR and similar measures are widely used by financial institutions and businesses to measure risk and determine whether action is needed to bring risks within acceptable corporate risk tolerances. For example, suppose the maximum one-year loss a participant is willing to accept in the New England wholesale electricity markets is \$1 million at a 95% level of confidence. This level of risk is equivalent to the participant incurring a loss of \$1 million or more less than once every 20 years. If the participant calculates a possible loss for the 1-year period to be \$3 million at a 95% confidence level based on a simulated distribution of profits and losses, the participant should take action to reduce their loss exposure to remain within the participant’s prescribed VAR limit. The cost of reducing or hedging this \$3 million exposure down to \$1 million is unlikely to be \$2 million; it would cost \$2 million only if the \$3 million loss occurs with a probability of one, rather than with a probability of one-in-twenty (or 5%). In reality, the cost of reducing the one-in-twenty \$3 million exposure is the cost of undertaking risk-management transactions that will lower its one-in-twenty risk exposure to \$1 million (*e.g.*, entering into financial hedges, acquiring insurance, or diversifying the participant’s portfolio of risky assets). The IMM has observed some participants bidding risk premiums

in their submitted de-list bids in a manner that is equivalent, in the context of the present example, to assuming it will cost \$2 million to reduce their VAR from \$3 million to \$1 million. Such an approach, which prices in the full exposure of \$2 million in a de-list bid price, is inconsistent with the appropriate use of VAR methods and is non-sensical from a financial standpoint.

5.2 Overview of IMM Analytical Framework

The IMM recognizes that there are multiple approaches to measuring and valuing risk. A comprehensive solution would take into account, among other things, each participant's corporate risk/return evaluation practices, its full portfolio of power supply contracts and resources within New England and corporate-wide, its quantitative and qualitative methodologies for projecting future market conditions, any overarching corporate strategy regarding future holdings in various markets, and competing industries or investment opportunities that are contemplated by the company. The IMM designed a framework for measuring and valuing risk that addresses resource-level specific risk factors under the Pay-for-Performance construct.

The IMM anticipates that its framework to assess risk will evolve, as indeed it will also evolve for participants, as experience with Pay-for-Performance is developed over time. For this reason, for FCA9 the IMM has adopted a conservative approach that aims to estimate a range of risk premium values that is sufficiently high so as not to mitigate competitive bids appropriate to the level of risk participants face. The approach implicitly recognizes the challenges of measuring risk associated with a market design that is new to participants, and for which there are currently limited tradable products to hedge specific risks under PFP. Further, while risk is typically managed and measured on a portfolio basis, the IMM's approach for FCA9 did not attempt to calculate incremental risk premiums across participants' portfolios, and therefore did not account for the covariance of performance across the resources comprising a participant's portfolio. Instead, the IMM approach for FCA9 calculated a stand-alone premium for each resource.

The IMM's methodology factored in three specific sources of risk:

- 1) Risk of greater than expected number of Capacity Scarcity Condition hours ("RP_H")
- 2) Risk of worse than expected average performance during Capacity Scarcity Condition hours ("RP_A")
- 3) Risk of the resource experiencing a Significant Decrease in Capacity ("RP_P")

The methodology for measuring the above risks is described in detail in the following sections.

5.2.1 Risk of greater than expected number of Capacity Scarcity Condition hours (“ RP_H ”)

The expected value of Capacity Performance Payments was calculated as outlined in Section 3 above. As explained above, the risk premium is based upon the possible range and frequency of outcomes that differ from these expectations.

The IMM utilized a VAR method for each individual resource that submitted a de-list bid, and conservatively set the loss level to be controlled in the capacity market over the commitment period at \$0.

The IMM applied the VAR approach by calculating the estimated loss at the 95th percentile of possible Capacity Scarcity Condition hours (H). In other words, the IMM set a one-in-twenty maximum acceptable net loss. However, rather than pricing the exposure dollar-for-dollar, the IMM placed a cost of risk for negative income at the chosen exposure level. The rationale for the chosen cost of risk is covered below.

a. Data used for calculating loss at the 95th percentile

When implementing the VAR approach, ISO evaluated variability of H assuming the mean values provided in de-listbids and calculating the 95th percentile values based on an ISO published memo on the distribution of H with the system at ICR.⁷ As shown in Table 1 of the published memo, this data indicates that, based on ISO simulations, the mean H is 21.2 hours while the 95th percentile value is 36.2 hours. To calculate the 95th percentile value of H for each de-list bid, the de-list bid mean value of H was multiplied by the ratio of the mean to the 95th percentile H values from the ISO data (*i.e.*, $1.71 = 36.2 / 21.2$).

b. Cost of risk

As described above, the approach that prices the full financial exposure at the 95th percentile in a bid or offer price is inconsistent with the proper use of the VAR method to evaluate and price risk. However, factors such as the infancy of the PFP market and the lack of liquid financial instruments at this time to

⁷ See http://www.iso-ne.com/committees/comm_wkgrps/mrktts_comm/mrktts/mtrls/2013/jul10112013/a12a_iso_memo_07_05_13.pdf

directly manage non-performance risks, on a three-year forward basis, provide challenges in deriving an appropriate cost of risk.

When considering benchmarks in formulating a cost of risk, the IMM examined rates of return on risky asset classes that exhibit some of the risk/return characteristics perceived by participants. Table 2 below shows that the average performance for a set of benchmarks, including High Yield Bonds and Hedge Funds, was 7% and 12% per year, respectively. The benchmarks are generally consistent with participant concerns highlighted in submissions regarding so-called “lower tail” risk of large losses, and potential revenue uncertainty generally.

Table 2

Financial Benchmark Returns	
High Yield Bond Return^[1]	Hedge Fund Return^[2]
7%	12%

[1] High Yield Bond Return is the 2010-2013 average return from the Bloomberg 1-5 year High Yield Corporate Bond index.

[2] Hedge Fund Return is the 1990-2009 hedge fund index average, from the CFA Institute's "Expected Returns on Major Asset Classes."

Considering the above factors, as well as the historical returns on benchmarked asset classes, the IMM believes a cost of risk of 25% of the calculated financial exposure is reasonable in evaluating de-list bid risk premiums for the first FCA in which the PFP design will apply.

c. Risk Premium Calculation

The calculation of the risk premium associated with greater than expected number of Capacity Scarcity Condition hours reflects the participant’s bid given its bidding strategy, as described in Section 2.

Consider first resources that participants indicate would *not* continue to operate in the energy and ancillary services market. In this case, the bids above the price floor are designed to provide base payments to exactly cover the resource’s NGFC and expected CPP, while bids that are at the minimum de-list bid price (*i.e.*, $PPR * H * BR$) will provide base payments in excess of these costs that result in

positive expected returns.⁸ Thus, the risk premium for resources with bids at the minimum de-list price will be lower, all else equal, than those for resources with bids above the minimum de-list price.

For a resource with bids above the minimum de-list bid price, then the risk premium is calculated as follows:⁹

$$RP_H = \max[0, PPR * (\bar{H} - H_{95}) * (\bar{A} - \bar{Br})] * r$$

Where:

$\bar{A}, \bar{Br}, \bar{H}$	expected values used for A, Br and H
H_{95}	95 th percentile from the distribution of H
r	risk cost per dollar of exposure (\$0.25 per \$1)

However, if the resource bids at the minimum de-list bid price given by the expected cost of the share of system obligation, then the risk premium is calculated as:

$$RP_H = \max[0, GFC - PPR * \bar{H} * \bar{Br} - PPR * H_{95}(\bar{A} - \bar{Br})] * r$$

These two risk premiums differ by the positive net income the resource would be expected to earn because of the minimum bid price, that is, $PPR * H * A - GFC$.

When a participant indicates that the resource *will* remain in the energy and ancillary services market without a CSO, the following formula is used for the risk premium:

$$RP_H = \max[0, -PPR * \bar{H} * \bar{Br} - PPR * H_{95}(\bar{A} - \bar{Br})] * r$$

In this case, the risk premium reflects a de-list bid at the expected cost of the CSO financial obligation plus the avoidable going forward costs of fulfilling the CSO.

5.2.2 Risk of worse than expected average performance during Capacity Scarcity Condition hours (“A”)

The IMM utilized two approaches to assess the impact of performance risk during the Capacity Commitment Period (*i.e.*, variability around expected A).

- *EFORD Adjustment Approach*: This approach considers performance risk independent of H. The IMM estimated the additional Capacity Performance Payments by reducing the resource’s expected average performance during Capacity Scarcity Condition hours (A) by a measure of the

⁸ A participant’s bids depends on the difference between NGFC and expected Capacity Performance Payments (*i.e.*, $PPR * H * A$). For example, consider a resource with a NGFC of \$1/kW-month and expected Capacity Performance Payments of \$2/ kW-month. Thus, without a CSO, the participant expects to earn \$1/kW-month from operating the resource without a CSO. If the expected cost of the financial obligation (*i.e.*, $PPR * H * A$) is \$2 /kW-month, the participant would submit a bid equal to \$2/kW-month, and earn an expected return of \$1/kW-month.

⁹ This corresponds to resources with $GFC - PPR * H * A < 0$.

likelihood of poor availability, which was proxied through a measure of the past historical Equivalent Demand Forced Outage Rate or “EFORd.” The IMM utilized the minimum of resource specific values and the most-recent available NERC class-average EFORd values.

- *Monte Carlo Simulation Approach:* Monte Carlo simulation was performed to simultaneously account for uncertainty in A , Br and H . Using data on performance during past Capacity Scarcity Conditions and the distribution of likely future Capacity Scarcity Conditions (summarized in Table 1), the Monte Carlo simulation calculated the distribution on net income based on the joint variability of H and $(A - Br)$. Having simulated the distribution of net income, the risk premium associated with this distribution was calculated in the same manner as the risk of higher than expected Capacity Scarcity Condition hours described above. That is, the risk premium reflects the amount of estimated negative net income at the 95% confidence level and a cost of risk equal to \$0.25 per dollar of negative income.

For FCA9, the IMM used the EFORd adjustment approach because it is a simple and transparent method to estimate performance risk. The IMM used the results of the Monte Carlo simulations as a secondary validation of the results using the EFORd adjustment approach. Over time, the Monte Carlo simulation approach should evolve to be a more valuable method and tool as more performance data during Capacity Scarcity Condition hours becomes available and if other variables (IMR for example) are added to the analyses. The results of the Monte Carlo simulations indicated that the simpler risk metrics used for high H and low A reasonably captured the risk premiums, as calculated using the Monte Carlo analysis.

The EFORd adjustment approach is in line with the overall conservative approach the IMM adopted in evaluating risk premium submissions for FCA9. The formula below describes the EFORd adjustment approach:

$$RP_A = PPR * H * A * \min\{EFORd, \text{Class Avg EFORd}\}$$

5.2.3 Risk of the resource experiencing a Significant Decrease in Capacity (“RP_P”)

The IMM estimated the risk of the resource experiencing a significant decrease in capacity such that the participant is required to offer a portion or all of a resource’s capacity in a reconfiguration auction prior to the start of the capacity commitment period. The IMM estimated this risk based on the FCA9 auction starting price, the IMM’s estimate of the resource’s bid without the risk premium¹⁰, as well as the

¹⁰ The estimate was derived by using the formulas outlined in section 2, without the risk premium (RP) component.

estimated probability of a unit experiencing a significant decrease in capacity based on resource Seasonal Claimed Capability values from January 2010 through December 2013.

$$RP_P = P * [FCA \text{ Starting Price} - b]$$

Where:

- P estimated Probability of a Significant Decrease, which was calculated to be 7%
- b is the FCA bid excluding the Risk Premium components, as described above, which depends on whether the resource will continue to participate in the energy and ancillary service markets.

5.2.4 Benchmark Risk Premium (“ RP_{Total} ”)

Combined, the risks of higher H and lower A are limited by the stop-loss amount, which for the purposes of the risk premium is calculated as follows:

$$Stop \text{ Loss} = [FCA \text{ Starting Price} - b] * 3 \text{ months}$$

The IMM’s benchmark risk premium for resources submitting de-list bids in FCA9 was therefore limited by the Stop Loss and calculated as follows:

$$RP_{Total} = RP_P + \min(RP_H + RP_A, Stop \text{ Loss})$$

The IMM’s determination of a reasonable risk premium is entered into the relevant de-list bid formula shown in Section 2 of this document.