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ISO New England Manual for
Registration and Performance Auditing
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Introduction

Welcome to the ISO New England Manual for Registration and Performance Auditing. The ISO New England Manual for Registration and Performance Auditing is one of a series of manuals concerning the wholesale electricity markets administered by ISO New England (ISO). This manual details the process of registration and auditing of assets and resources that participate in the ISO-administered markets.

This manual assumes that the reader has reviewed Market Rule 1 before or in conjunction with using the manual. Terms that are capitalized in this manual may be defined in Section I of the ISO Tariff or ISO New England Manual M-35.

The reader is referred first to Market Rule 1 for an explanation and information regarding that aspect of the operation of the markets. This manual provides additional implementation or other detail for those provisions of Market Rule 1 that require the Market Participant to take an action.

The ISO New England Manual for Registration and Performance Auditing consists of three Sections. The Sections are as follows:

Section 1: Asset and Resource Registration

Section 2: Capacity Resource Transfers

Section 3: Dispatchable Asset Related Demand Auditing

The Lead Market Participant is the Market Participant that registers new Generator Assets, ATRRs, and Demand Assets. An Electric Storage Facility must have a single Lead Market Participant. The current Lead Market Participant is also responsible for notifying the ISO of changes or updates to asset registration data including Ownership Share and transfers to new Lead Market Participants. In the case of a transfer request, approval is required from the new Lead Market Participant before the transfer will be completed. The Lead Market Participant is ultimately responsible for compliance with all applicable ISO asset requirements and obligations, and submitting all asset data in eMKT if applicable.

The Lead Market Participant for an asset is also responsible for assigning a Meter Reader if needed, assigning a Demand Designated Entity (DDE) for a Demand Response Resource (DRR), and assigning a Designated Entity (DE) for a Generator Asset, ARD, or Alternative Technology Regulation Resource. The Lead Market Participant may designate itself as the DE/DDE, subject to the registration requirements detailed in this manual. The Lead Market Participant for Demand Assets is responsible for assigning these assets to an On-Peak Demand Resource, Seasonal Peak Demand Resource or DRR. The Lead Market Participant for a DRR is responsible for mapping the DRR to an Active Demand Capacity Resource, when appropriate. For Demand Response Assets (DRAs) with maximum interruptible capability of one MW or greater, the Lead Market Participant is also responsible for getting confirmation from the local Distribution Company of the P-Node that serves the DRA's load.

The Lead Market Participant will remain responsible for actions and requirements assigned to the DE/DDE under the ISO New England Manuals, Operating Procedures or the Tariff.

(2) Generator Asset Owner

A Generator Asset owner is a Market Participant possessing an Ownership Share of a Generator Asset. If there is not a Market Participant owner for a Generator Asset, the Lead Market Participant will be considered the owner.

(3) Designated Entity/Demand Designated Entity

All

Assigned Meter Reader is defined in Section I of the Tariff. Pursuant to all registration requirements being met, the Assigned Meter Reader shall start reporting meter data from the effective date that was specified on the registration until the last day prior to the asset termination date. This meter data is used for settlement as described in the ISO New England Manual for Market Rule 1 Accounting, M28. The Assigned Meter Reader may designate an agent to help fulfill its Assigned Meter Reader responsibilities; however, the Assigned Meter Reader remains functionally responsible to the ISO.

- (a) Generator Assets: The Assigned Meter Reader for Generator Assets will be designated by the Lead Market Participant to the ISO during asset registration.
- (b) Tie-Line Assets: The Assigned Meter Reader for Tie-Line Assets is the Transmission Owner or Host Participant designated to the ISO during asset registration, or the ISO.
- (c) Load Assets: The Assigned Meter Reader for Load Assets will be the Host Participant except:
 - (1) The Lead Load Asset Owner of a Load Asset equipped with ISO New England Operating Procedure No. 18 compliant settlement metering for that Load Asset, and submitting the meter readings for that Load Asset as of December 1, 1999 may elect to continue submitting that specific Load Asset data as the Assigned Meter Reader.

- (2) continue A Tc 0.0A(ci)-6 tt/gk1 (8)-10 (a)5.9 (. Tw 11.04 -0.TJ-0.00a(n)-M-0 tt/gk39on

1.1.3 Sub-hourly Metering

A request to submit five-minute revenue quality metering requires approval from the Host Participant and Assigned Meter Reader and must allow for five Business Days for the ISO to review and make applicable changes to the settlement power system model. A Market Participant choosing to submit five-minute revenue quality metering for an asset may not revert to submitting hourly revenue quality metering.

1.2 Load Asset (other than Asset Related Demand) Registration Requirements

(3) Mapping Customers to Load Zones

Mapping individual customers to Load Zones and reporting aggregated Load Zone quantities for settlement is the responsibility of the Host Participant.

1.2.2 Updated Registration

(1) Timing Requirements

A desired effective date for Load Asset (other than Asset Related Demand) updates must allow for two Business Days (commencing upon receipt of a completed request) for the ISO to review and make applicable changes to the settlement power system model. A request to submit five-minute revenue quality metering must allow for five Business Days for the ISO to complete its review.

(2) Ownership Share changes

Ownership Share changes must be initiated by the Lead Load Asset Owner of the Load Asset (other than Asset Related Demand). When transferring Lead Load Asset Ownership status or Load Asset Ownership Share both the receiving and relinquishing Market Participants of a Load Asset (other than Asset Related Demand) must sign or approve the request.

1.2.3 Retirement

Unless otherwise defined in the Financial Assurance Policy, a desired effective date to retire an asset must be submitted at least two Business Days in advance of the requested asset retirement date, which commences upon receipt of the completed request. The Host Participant must have signed off on the retirement request prior to submittal to the ISO.

customers. This information will be added to the registration by the Host Participant.

- (iii) Verify, for each end-use metered customer listed on the registration, the end-use metered customer's annual usage from the 12 months preceding registration using either interval or retail-billed quantity data.
- (iv) Determine, for settlement modeling and reporting purposes, if the ARD is a Profiled Load Asset or a Directly Metered Asset.
- (v) The enrolling participant serving Asset Related Demand loads must meet the individual state requirements for serving load in the states with retail access. State rules for enrollment and subsequent transactions relating to the Asset Related Demand loads will be utilized.

(2) ISO responsibilities:

Once the ISO receives the completed registration containing the required information from the Host Participant, the ISO will determine compliance with ARD eligibility criteria, including, as applicable, the following:

(a) The ARD must consist of either:

- (i) One or more individual end-use metered customers with an aggregate average hourly load of one MW or greater during the 12 months preceding the date the registration is submitted by the Lead Load Asset Owner and as verified by the Host Participant; or
- (ii) One or more storage devices located behind the same point of interconnection with an aggregate consumption capability of 0.1 MW or greater.

(b) Upon the activation date of an approved ARD, the asset must remain active and end-use metered customer enrollment must remain unchanged for a minimum of 12 months. The ISO will monitor new Asset Related Demand registrations to ensure end-use metered customers previously, but not currently, associated with one Asset Related Demand do not register as a part of another Asset Related Demand for a minimum of 12 months.

(c) Aggregation of end-use metered customer demand is permissible provided the following conditions are met (this subsection (c) is not applicable to Storage DARDs):

- (i) All end-use metered customers associated with an ARD must have an interval

- (ii) Aggregated demand from end-use metered customers must be represented as a single SCADA or equivalent real-time meter and submitted as a single value to the ISO. The single aggregated SCADA data value must reflect the sum of the interval metered data of the end-use metered customers associated with the ARD.
- (iii) End-use metered customers aggregated as a part of a single ARD must be mapped to the same Metering Domain and receive electrical service in the same proportions from the same point or points of supply. (Illustration of permissible configuration in Fig. 1.1 and prohibited configuration in Figure 1.2.)

Figure 1.2: P-0 0 72 fTw -21D

supply.

- (a) Working with the ISO, determine if the required SCADA metering and communication systems (or some other comparable metering and communication) have been installed and testing has been successfully completed to satisfy real-time metering requirements.
- (b) Demonstrate that a single SCADA measurement point will stay synchronized with end-use metered customer enrollment changes.
- (c) Enroll end-use metered customers identified in the registration following established, state-approved requirements, including electronic data interchange (EDI) and any applicable Host Participant procedures or requirements.
- (d) Notify the ISO and the Host Participant by e-mail of any changes to end-use metered customers enrolled under an ARD that impact asset registration.

Based on the information included on the registration, the ISO will determine if the ARD satisfies eligibility criteria and has in place proper metering and communication as specified above. If the ARD does not meet the above criteria, the ISO will deny the application and return the registration to the Lead Load Asset Owner, indicating that the criteria were not met.

If eligibility criteria and infrastructure requirements have been met, the ISO will notify the Host Participant of the Load Asset's approval. The Host Participant will then sign the registration and return it to the ISO.

The ISO will model the ARD in the EMS and notify the Lead Load Asset Owner and Host Participant. Asset Related Demand loads served electrically from more than one Metering Domain or Load Zone will be modeled in the EMS based on the Metering Domain where the end-use metered customers are mapped. The ISO will use the P-Node data included in the registration to develop an AP-Node for each unique ARD.

Upon implementation, the Host Participant will be responsible for providing the ISO with hourly ARD values pursuant to the ISO's standard settlement protocols.

(4) Annual Review

Once a year, if applicable, the ISO may initiate a review of P-Node assignments. The ISO will provide the Host Participant with the registration for the ARD containing the list of PNode assignments provided upon initial registration. The Host Participant will assess whether the individual end-use metered customers remain electrically connected to the P-Nodes per the registration. Periodically, the AP-Node assignments may require updates, as the EMS network model releases result in changes to existing P-Nodes. In some cases, P-Nodes may be retired and it may be appropriate to reassign the AP-Node to new or existing P-Nodes.

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1.5 Tie-Line Asset Registration Requirements

1.5.1 Initial Registration

A desired effective date for new Tie-Line Assets must allow for five Business Days for the ISO to review the Tie-Line Asset registration and add to the settlement power system model. The five Business Days effective date is 10.74ie BI-1.2 ((a)44 (r)-1 (i)- a1)lt0.00-(D)-1h (e6M4 T

1.6.1 Initial Registration Process

A desired effective date for new Demand Assets must be the first day of a future month. In addition to general registration data, the ISO may request additional information necessary to

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resource and determine steps needed for approval and activation. If the addition of the asset or resource to a dispatch location changes the technical requirements, the Operations Manager may be required to submit a new dispatch location requirements checklist.

1.8.2.1.2 Retiring Dispatch Locations

If there are no assets or resources assigned to an existing dispatch location, the ISO will deem it as inactive and discontinue dispatch communications.

1.8.2.1.3 Registration Review and Approval

Change requests identified in this manual should allow for a minimum of five business days for the ISO to review the request. This review notification is in addition to the advance notification requirements stated in the ISO New England Operating Procedures.

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2.3 Active Demand Capacity Resources

A transfer of an Active Demand Capacity Resource to a new Lead Market Participant will include all DRRs (including its DRAs) assigned to the Active Demand Capacity Resource at the time of the transfer.

2.4 On-Peak and Seasonal Peak Demand Resources

A transfer of an On-Peak or Seasonal Peak Demand Resource to a new Lead Market Participant will include all associated Demand Assets at the time of the transfer.

Section 3: Dispatchable Asset Related Demand NCL Auditing for DARDs Other than Storage DARDs

3.1 Introduction

This section discusses the requirements that must be met by DARDs other than Storage DARDs to establish and audit the Nominated Consumption Limit (“NCL”) values. Storage DARDs neither establish nor audit Nominated Consumption Limits; therefore, no part of this Section 3, “Dispatchable Asset Related Demand Auditing,” applies to Storage DARDs.

All communication between the ISO and Market Participants regarding rating and auditing of

3.2 Claimed NCL Periods

There are two Claimed Capability Demonstration Periods for DARD; the Summer Capability Period and the Winter Capability Period.

3.3 Claimed NCL Demonstration Periods

The Claimed Capability Demonstration Periods are defined subsets of the respective Summer and Winter Capability Periods. Claimed NCL Ratings for a DARD must be demonstrated in each of the two Claimed Capability Demonstration Periods. The summer demonstration period begins on June 1 and ends on September 15. The winter demonstration period begins on November 1 and ends on April 15. All Claimed NCL Audits (CNAs), other than a CNASeasonal, must occur between 0800 and 2300, Monday through Friday, excluding weekday NERC Holidays. A CNA-Seasonal may be demonstrated at any time during the Claimed Capability Demonstration Period. Designated Entity requests for CNA-Establish and CNASeasonal audits must be timed to occur during periods of normal operation for the DARD (i.e. not a two-week summer shutdown, extended maintenance, or other unusual activity that would reduce consumption levels).

3.4 NCL Claimed Capability

Nominated Consumption Limits (NCL) for DARDs, including both the Summer (NCL-S) and Winter (NCL-W) Limits, are analogous to the Seasonal Claimed Capability of Generator Assets. Claimed NCL Ratings are the minimum level to which a DARD can reduce its consumption.

All DARDs other than Storage DARDs must have Claimed NCL Ratings for both the Summer Capability Period and the Winter Capability Period.

Pursuant to ISO New England Operating Procedure No. 14, the Lead Market Participant for a DARD must provide information pertaining to its DARD on an NX-12 Form. In order for the Claimed NCL Ratings of any DARD to be established or changed, all applicable NX-12 Forms must be submitted in accordance with ISO New England Operating Procedure No. 14. NCL must be established and reported in MW, rounded to three decimal places.

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may cancel the audit request and require the Designated Entity to request another CNA-Establish.

Within seven Business Days after the CNA-Establish is conducted, the ISO will notify the Designated Entity of the results.

(b) CNA-Seasonal

A CNA-Seasonal of a DARD must be conducted once each seasonal Capability Demonstration Period. The Designated Entity initiates a CNA-Seasonal by submitting a request to the ISO. The ISO will conduct the CNA-Seasonal within seven Business Days after receiving a request, provided that the DARD is expected to be operating “normally” (for example, not in the midst of a two-week summer shutdown) alhe inducbmdsesa rof w, notxlf bovItieTJ0Aex exof

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3.7 Compensation for Claimed NCL Audits

For all types of CNAs, a DARD will pay for Energy consumed at Locational Marginal Price at the Node at which the DARD is located.

Revision History

Approval

Approval Date: May 7, 2010

Effective Date: June 1, 2010

Revision History

Revision: 1 - Approval Date: November 18, 2010

Section No. Revision Summary

Section 5.....Adds a new Section 5 titled “CLAIM10 and CLAIM30 Auditing and Testing”.

Revision: 2 - Approval Date: April 1, 2011

Section No. Revision Summary

1.2.....Adds language describing the availability and purpose of the Demand Response Customer Information Request Form

1.7.1(2)..... Adds requirement for Host Participants to submit information to the ISO for each Local Distribution Company’s service territory.

1.7.2.....Adds sentence on registration restrictions pertaining to a relevant electric retail regulatory authority’s policies.

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- 3.4.5..... Adds reference to Market Rule 1 and ISO New England Manual and deletes reference to forms.
- 3.4.6..... Adds reference to the section of Market Rule 1 that covers this section’s subject.
- 3.4.6.1..... Deletes first sentence. Adds defined term Average Hourly Load Reduction. Deletes reference to engineering estimates. Replaces description of baseline adjustments with a reference to Market Rule 1.

Revision: 6 - Approval Date: October 3, 2012

Section No. Revision Summary

- 2.4.1.2..... Replaces the Market Participant obligation to conduct a CCA-Seasonal at least once each Capability Demonstration Period with a summer and winter CCASeasonal. Adds two new subsections (1) and (2) stating the criteria the summer and winter CCA-Seasonal are based on. Replaces “second” with “seventh” in the third sentence of the second paragraph.

Revision: 7 - Approval Date: March 1, 2013

Section No. Revision Summary

- 2.4.1.2(2)..... Replaces the “September 1, 2011” date with “September 1, 2010”.

Revision: 8 - Approval Date: June 7, 2013

Section No. Revision Summary

- 3.2(4)..... Adds new subsection titled “New Demand Response New Asset Audits”.
- 3.4..... Adds reference regarding auditing requirements for New Demand Response Assets.
- 3.4.4.....Replaces the ISO web site form process with the ISO Demand Response Audit and Testing Tool.
- 3.4.6.2.....Replaces the two hour audit period requirement with the one hour audit period requirement.

3.4.7, 3.4.8,

3.4.9, 3.4.10

& 3.4.10.1.....Adds 5 new subsections regarding the auditing subject for New Demand Response Assets.

Section 5.....Deletes Section 5 titled “CLAIM10 and CLAIM30 Auditing and Testing”.

Revision: 9 - Approval Date: November 2, 2012

Section No. Revision Summary

1.7.1(1)..... Deletes “Enrolling Participant” in the subsection heading.

Revision: 10 - Approval Date: August 2, 2013

Section No. Revision Summary

Deletes the following Section and Appendices (relocated to Operating Procedure 23 –

Revision: 11 - Approval Date: April 4, 2014

<u>Section No.</u>	<u>Revision Summary</u>
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	Entire Section 1.7 revised to reflect Market Rule 1 implementation of the Demand Response Baseline and Scheduled Curtailments subject.
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3.2(1).....	Replaces “Demand Reduction Value” with “Performance”.
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This set of revisions was approved on January 9, 2015

- 1.1.1(4)..... Replaces “all assets” with “Generator, Asset Related Demand, Load, Tie-Line, and discrete Alternative Technology Regulation Resource”.
- 1.1.1(5)..... Revises this subsection to reflect all assets if not already the responsibility of the Host Participant Assigned Meter Reader, or Lead Participant.
- 1.1.2(5)(d)..... Adds a new subsection (d) Alternative Technology Regulation Resource.
- 1.9.1..... Adds a second paragraph regarding other definition locations within the ISO New England System Rules for additional timing requirements.
- 1.9.2..... Replaces “SOG” with “ATRR” in the third paragraph and adds a fourth paragraph regarding ATRR dispatch methodology change request locations within the ISO New England System Rules.

Revision: 14 - Approval Date: August 7, 2015

Section No. Revision Summary

- 1, 1.3.1(4), 3.4 Adds phrase “of this manual”.
- 1.1.2(1)..... Adds a new subsection (1) Lead Market Participant.
- 1.1.2(2)..... Replaces “share” with “Share”.
- 1.1.2(2) & (3). Replaces the phrase “on the first day of the month” with “at the start of an Operating Day”.
- 1.1.2(5)..... Adds a new subsection (5) Lead Asset Owner.
- 1.1.2(7)..... Replaces “Market Participant” with “Host Participant” and deletes the phrase “by the Tie Line Asset Owner(s)”.
- 1.2..... Replaces the “Demand Response Customer Information Request Form” with “contacting ISO-NE Customer Service by telephone or e-mail”.
- 1.2.2..... Revises the subsection to contain two subsections; (1) Timing Requirements and

1.5.2 & 1.6.2..Addition of (Pw-0.00.((dds)m410 0 0e)2410 0 0 11.t8M4t0 0 0 11.04c1.0“7 /37 /37 /3m7g)TJO.

	information from M-28 12.2.5.1 to 1.2.1(1), (2) and (3) because they are about initial registration requirements.
1.3.....	Relocates information from M-28 to subsection 1.3.1(1)(a)(v) requiring enrolling participants serving ARD loads must meet the individual state requirements for serving load. Relocates information from M-28 to 1.3.1(2)(b) requiring the ARD to remain active and have its end-use metered customer enrollment unchanged for 12 months from the activation date and specifies that the ISO will monitor new ARDs to ensure the end use metered loads are not and have not registered as part of another ARD. 1.4..... Adds to Section 1.4.1 clarification on the requirement that if the Generator Asset is represented in the ISO power system model, then it must provide notification to the ISO on when that new asset will become subject to central dispatch. Removes Section 1.4.4 and instead covers the information to assign a Generator a Designated Entity in section 1.1.2.
1.5.....	Removes prior Section 1.5 because it is superfluous, no separate Settlement Only Resource requirements are necessary, requirements are described in the section for Generators. Due to renumbering, the new Section 1.5 covers Tie-Line Asset registration requirements. Specifies in 1.6.2 that Tie-Line Assets seeking to submit five-minute revenue quality metering must include agreement of both Host Participants.
1.6.....	Adds detail on Asset Registration and Mapping applying specifically to On-Peak and Seasonal Peak Resources and their component assets as well as mapping Demand Response Resource (DRR) to Demand Response Assets (DRA), referencing the CAMS user guide for additional information. Updates the initial registration process as well as registration requirements to ensure conformity under the Price Responsive Demand Tariff provisions. Updates information for facility information submittal. Removes information from old Section 1.7. because that information was on obsolete entities RTDR and RTEG or otherwise no longer applicable. Additional requirements for DRA's to become operational are listed clearly in new Section 1.6.1.3. Adds updated full integration registration process requirements and details for Demand Assets to Section 1.6.1 and 1.6.2. Updates retirement information to Section 1.6.3. Passive DR requirements
1.8.....	Removes and replaces reserved section "1.8 Generating Capacity Resource, Import Capacity Resource, and Demand Resource Registration" New 1.8 covers Designated Entity and Demand Designated Entity Registration of Dispatch Center descriptions for Generators, DARDs, DRRs and ATRRs as the physical location where they receive dispatch instructions. Specifies technical requirements for authorization of dispatch centers. In Sections 1.8.1 and 1.8.2, adds and updates information on initial registration, registration review and approval, dispatch location activation, updated registration, contact information, and assignment of Designated Entities, to reflect the procedures necessary to implement price responsive demand.

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|--------|--|
| 2..... | Changes this section from previously “Reserved” to “Capacity Resource Transfers” detailing how New and Existing Capacity Resources may be transferred to a new Lead Market Participant. Adds sub sections describing the transfer of: New or Existing Generating Capacity Resources, Active Demand Capacity Resources and On-Peak or Seasonal Peak Resources. |
| 3..... | Removes because Auditing of DRRs is in Tariff section 1.5.1 and OP-23, passives auditing is covered in M-MVDR and renumbers following Section. Passive Demand Resources auditing is covered in M-MVDR. Reorganizes and updates section on Passive Demand Resource auditing. Removes provisions relating to RTDR and RTEG. Deletes formerly reserved section 5. |

Revision: 18 – Approval Date: October 4, 2019

Section No Revision Summary

- | | |
|------------|--|
| 1.1..... | Adds “A Market Participant submits a single registration for a Continuous Storage Facility and, except where noted, follows the rules applicable to its component asset types.” Clarifying phrasing changes were made. |
| 1.1.1..... | Cleans up phrasing |
| 1.1.2(1) | |

language to state that each dispatch location must have its own telephone and that an Electric Storage Facility must have a single DE.

1.1.2.(4)(e).....Removes “and DARD Pump” because it is redundant with Dispatchable ARDs.

1.1.2(6).....Corrects term to “Generator Assets.”

1.1.2(7).....Removes “Asset,” corrects capitalization.

1.2.....Corrects phrasing and capitalization.

1.3.1.....Adds requirements that a new Storage DARD must provide a five business day

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