

Appendix E - Explanation of Terms and Instructions for Data Preparation of ISO New England Form NX-12E, Asset Related Demands Technical Data

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ISO New England Operating Procedure OP-14 - Technical Requirements for Generators, Demand Response Resources, Asset Related Demands and Alternative Technology Regulation Resources, Appendix E

References:

ISO New England Inc. Transmission, Markets, & Services Tariff (ISO Tariff), Section I - General Terms and Conditions, I.2.2., Definitions

ISO New England Manual for, Market Rule ~~One~~1 Accounting, Manual M-28 (Manual M-28)

~~ISO New England Manual for Definitions and Abbreviations Manual M-35 (Manual M-35)~~

ISO New England Operating Procedure No. 14 - Technical Requirements for Generators, Demand Response Resources, Asset Related Demands and Alternative Technology Regulation Resources (OP-14)

ISO Manual for Registration and Performance Auditing (M-RPA), Dispatchable Asset Related Demand

General Information

The NX-12E Asset Related Demands Technical Data form (NX-12E) ~~requests information needed by~~ allows ISO New England (ISO) to obtain needed information that is **not a** part of the bid information. All required data ~~must shall~~ be provided for each defined Asset Related Demand (ARD), per Section IV of ISO New England Operating Procedure No. 14 - Technical Requirements for Generators, Demand Response Resources, Asset Related Demands and Alternative Technology Regulation Resources (OP-14).

Once an initial NX-12E form has been provided, any change in ARD data ~~must shall~~ be reported to ISO via Ask ISO.

In order for ISO to approve an NX-12E form ~~to be approved by ISO~~, all required data ~~must shall~~ be provided without errors and without omissions. ~~It is the responsibility of the~~ The Lead Market Participant (Lead MP) ~~to shall~~ correct errors or omissions of NX-12E data and re-submit to ISO. ~~ISO, at its sole discretion, shall determine if the will be the sole judge of when~~ NX-12E data is complete and correct. The effective date for changes to NX-12E data items ~~must shall~~ be at least seven (7) days from the date when ISO determines that the data is complete and correct ~~that such determination is made by ISO that the NX-12E data is complete and without errors.~~

When requested to select from a list of items, please indicate your selection by entering an "x" in the appropriate space on the NX-12E form.

Lead Participant - ~~a~~An ARD Lead MP [which is defined in Section I.2.2 of the defined in ISO New England Inc. Transmission, Markets, & Services Tariff (ISO Tariff)], ~~Section I - General Terms and Conditions, I.2.2 Definitions.~~

LP ID - ~~t~~The Customer ID, as assigned to each company at the time of Customer Registration, as defined in ISO New England Manuals and Procedures

Local Control Center (LCC) - ~~t~~The ~~Local Control Center (LCC)~~ with ~~o~~Operating Responsibility and ~~a~~Authority ~~of over~~ an ARD as defined in ISO New England Operating Procedure No. 1 - Central Dispatch Operating Responsibilities and Authority (OP-1).

ARD Name - ~~t~~The name of the Asset to be used for Asset ~~r~~Registration.

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Asset ID - ~~t~~The ARD Asset ID, ~~as~~ assigned to ~~each the~~ Asset via by ISO Market Support Services at the time of Asset's ~~r~~Registration ~~Procedure~~, as defined in ISO New England Manual for Market Rule One Accounting, Manual M-28 (Manual M-28)

Designated Entity (DE) - ~~the n~~Name of the entity ~~which that~~ receives, acknowledges, and responds to ~~the ISO d~~Dispatch ~~i~~nstructions and communications registered in accordance with ISO Manual for Registration and Performance Auditing (M-RPA), Dispatchable Asset Related Demand. The Dispatchable Asset Related Demand (DARD) ~~Designated Entity (DE)~~ is the only entity to which ISO ~~will~~ communicates s Dispatch Instructions.

The DE name must:

- Be unique
- **Not** exceed 27 characters

DE ID# - ~~The~~ unique identification number ~~that ISO assigned by ISOs to the DE~~ at the time of ~~Asset R~~ registration, ~~done~~ in accordance with ISO M-RPA ~~for each DE~~.

Specific Information

Section 1: Data Revision Information

This information includes the Data Revision Number, date prepared, name of person who prepared the data, and requested effective date.

Data Revision No. - ~~The first time a Lead MP submits an NX-12E form and ISO approves it, is it shall filed by a Lead MP and approved by ISO, it must~~ be assigned Data Revision Number 0. Each time ~~the Lead MP submits revised data is submitted~~ and ~~approved by ISO approves it~~, the Data Revision Number ~~must shall~~ be incremented. The revision number ~~should shall~~ only be incremented from one approved NX-12E to the next approved NX-12E. In other words, if changes to an approved NX-12E are ~~desired needed~~ and a new NX-12E form is submitted for ISO's approval, the data revision number ~~should shall~~ be incremented. If, however, there are errors or missing data on the ~~eat~~ new NX-12E form, ~~then the Lead MP shall submit another corrected form must be submitted by the Lead MP~~. This corrected form shall have the errors corrected and/or missing data provided, but the Data Revision Number ~~should shall~~ be the same as ~~the one~~ on the previously submitted ~~new~~ form. ~~The Data Revision Number is incremented only from one approved NX-12E to the next approved NX-12E.~~

Date Prepared - ~~The~~ date on which the ~~Lead MP submits the~~ NX-12E form ~~is completed and submitted~~ to ISO.

Requested Effective Date - ~~The~~ date ~~that when~~ the new NX-12E ~~form~~ is to become effective. For a new unit, the effective date is to be at least ~~o~~One ~~h~~Hundred ~~t~~Twenty (120) days following the date ~~tey that on which~~ the designated recipient at ISO receives the NX-12E ~~form~~ (assuming that the NX-12E form and all other required data are complete and ~~without errors correct~~). For an existing Asset, the effective date is to be at least seven (7) days following the date ~~tey that on which~~ the designated recipient at ISO receives the data (assuming that the form is complete and ~~without errors correct~~). If there are errors or omissions on an NX-12E form, subsequent submittals of corrected NX-12E forms shall have a Requested Effective Date that is at least seven (7) days from the date ~~on which ISO receives that~~ the corrected NX-12E form ~~is received by ISO~~.

Section 2: Basic Information

This information indicates the type, electrical location, status and classification of an Asset.

Asset Related Demand Type - Select the type of ARD from the choices listed below and on the NX-12E Form.

1. Pump Storage
2. Station Service
3. Energy Storage
- 3.4. Other

Metering Domain (ID) - Metering Domains are defined in Section 7.2.1 of ISO New England Manual for Market Rule 1 Accounting Manual M-28 connection points created within the Settlement Power System Model that facilitate the calculation of the Unmetered Load Asset value to ensure that all generation and load is accounted for within the ISO New England Reliability Coordinator Area/Balancing Authority Area (RCA/BAA). Each Node modeled for pricing purposes in the State eEstimator must shall be associated with a single Metering Domain ID. All Load Assets receiving Zonal Price treatment in settlement must shall be connected to a Metering Domain as defined in ISO New England Manual for Definitions and Abbreviations Manual M-35 (Manual M-35).

Capabilities - Check all that apply:

1. Dispatchable:
A DARD available to be dispatched by ISO based on hourly price structure and operating limits. A DARD must shall be able to receive and respond to Desired Dispatch Points (DDPs).
2. Biddable:
DARD is able to submit Offers into the eMKT application

Section 3: Minimum Consumption Limit

Minimum Consumption Limit capability value is reported in MW, to three decimal places.

Maximum Consumption Limit capability value is reported in MW, to three decimal places.

~~The maximum amount, in MW, available from the DARD for economic dispatch and is based on the physical characteristics as submitted as part of an Asset Offer Data.~~

Nominated Consumption Level-Limit capability value is reported in MW, to three

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decimal places.

~~The minimum amount to which a DARD will reduce.~~

~~**Nominated Consumption Limit - Winter** - Minimum level to which a DARD will reduce its consumption, in MW, for the Winter Capability Period (October through May).~~

List any additional information regarding the DARD that is not previously detailed in this form or the ~~b~~Bid ~~p~~Parameters.

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OP-14 Appendix E Revision History

Document History (This Document History documents action taken on the equivalent NEPOOL Procedure prior to the RTO Operations Date as well revisions made to the ISO New England Procedure subsequent to the RTO Operations Date.)

Rev. No.	Date	Reason
Rev 1	01/05/05	
Rev 2	02/01/05	Updated to conform to RTO terminology
Rev 3	10/01/06	Updated for ASM Phase 2
Rev 4	01/29/13	Global editorial & format changes: font to Arial, added Table of contents, added uncontrolled disclaimer to 1 st page footer, added "Hard Copy is Uncontrolled" to all page footers and changed page numbering format to Page X of Y, added References section; Section 1: Added Lead Participant and Designated Entity IDs; Removed contact details, replacing them with Person ID's. Moved Lead Participant contact from Section 6; Section 2: Removed "Status", Claim 10 and Claim 30; Sections 6 Staffing removed; Section 7 Contact information removed.
Rev 5	10/31/14	Biennial review by procedure owner; Updated general information regarding method of data changes; Updated title and edited Section 1 to delete contact information; Corrected reference document titles
Rev 5.1	09/19/16	Periodic review performed requiring no changes; Added required corporate document identity to all footers;
Rev 5.2	06/06/18	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision (globally updated OP-14 title in headers, reference section and General Information section);
<u>Rev 6</u>	<u>draft</u>	<u>Section 2, Asset Related Demand Type drop-down, added "Energy Storage;</u>