



Generation Asset Registration Form (ARF) Requirement User Guide

ISO New England Inc.

February 22, 2012

Revision 2



Generation Asset Registration Form (ARF) Requirements

Please note the Generator ARF serves as an Initial Registration, Modification or Retirement of a generator. For your reference, ISO New England Manual for Registration and Performance Auditing (M-RPA) Section 1 provides most of the governing language on Asset Registration.

http://www.iso-ne.com/rules_proceeds/isonet_mnl/index.html

Signed Asset Registration Forms can be faxed to 877-654-4220 or you can email a signed pdf file to opareg@iso-ne.com. An Excel version shall be emailed to opareg@iso-ne.com with all changes to existing forms highlighted in **bold red**.

Generation Asset Registration Forms shall be filled out completely for all submittals.

SECTION 1 – Submitting Party Information

Generation Asset Registration Form (ARF)			
Section 1: Submitting Party Information			
Desired Implementation Date:	<input type="text"/>	Submitted By:	<input type="text"/>
Lead Market Participant/ Asset Owner:	<input type="text"/>	Participant ID:	<input type="text"/>
E-Mail:	<input type="text"/>	Data Revision #:	<input type="text"/>
Phone Number:	<input type="text"/>	Ext:	<input type="text"/>
		Fax:	<input type="text"/>

Desired Implementation Date:

- **New Assets:**

A Desired Implementation Date for new assets must allow 5 Business Days for the ISO and the Host Participant Assigned Meter Reader to review the Generator ARF and accurately model the asset. Other network modeling metering requirements require further coordination with the ISO prior to the submittal of the ARF. For more information on the New Generation process, please contact Customer Services (custserv@iso-ne.com) and ask to be referred to the New Generation Coordinator.

- **Changes on Existing Assets:**

A Desired Implementation Date for existing assets must allow 2 Business Days for the ISO to review and approve or deny the Generator ARF. SOG generation information changes to section 5 must allow 5 Business days for the ISO to review and approve or deny the Generator ARF.

Submitted By:

The ARF's "Submitted By" field identifies the individual submitting the Asset Registration Form as a representative of the Asset Owner and/or Lead Market Participant. The ISO utilizes the Customer & Asset Management System (CAMS) to ensure that this individual represents the Asset Owner and/or Lead Market Participant. To ensure prompt processing, please verify that the ARF submitter is listed in CAMS as a Contact Type – Responsible for Asset Registration Form submittal. If the name and e-mail information are entered in Section 1, they will receive notification via e-mail.

Asset Owner and/or the Lead Market Participant:

The Asset Owner and/or the Lead Market Participant must be a settleable Market Participant.

Participant ID:

There is a Participant ID associated with all ISO New England customers. Please contact your Security Administrator or refer to your MIS Reports. A list is also available at: http://www.iso-ne.com/support/asset_info/index.html. Click on the Customer and Asset Information document to access the list. Some customers have settleable and non-settleable entities. Please verify the name and customer ID of the entity that should bear the responsibility.

E-Mail:

The e-mail address corresponds to the "Submitted By" above. Note the e-mail address populated in this field will receive notification that the asset registration form has been implemented. In the event that notification should be sent to a group e-mail address, please enter that address in this field. The email address must be in CAMS.

Data Revision #:

The revision number for an Initial Registration is always zero for non-commercial testing. Revision number 1 designates commercial operation. The revision number is increased by 1 each time a change is made. The current revision number may be obtained from the ISO or left blank.

Phone Number:

The phone number for the person submitting the Generation ARF and it must be in CAMS.

Ext:

The extension number for the person submitting the Generation ARF

Fax:

The fax number for the person submitting the Generation ARF

SECTION 2 – Requested Generation Asset Registration Action

Section 2: Requested GENERATION Asset Registration Action (Check as many as apply)			
<input type="checkbox"/> Initial Registration	<input type="checkbox"/> Modify Existing	<input type="checkbox"/> Retire Existing	<div style="border: 1px solid black; padding: 2px;"> SCC Change SOG ONLY Section 5 <input type="checkbox"/> YES <input type="checkbox"/> NO </div>
<input type="checkbox"/> Ownership Change - Asset	<input type="checkbox"/> Lead Market Participant Change - Asset		
<input type="checkbox"/> Meter Reader Change	<input type="checkbox"/> Lead Market Participant Change - Resource <i>(Timing subject to ISO Approval)</i>		<div style="border: 1px solid black; padding: 2px;"> Net Metered Facility: (Facility with load behind the meter that is not station service) <input type="checkbox"/> YES <input type="checkbox"/> NO </div>
<input type="checkbox"/> Intermittent EMS Modeled Generator		<div style="border: 1px solid black; padding: 2px;"> Asset Name Change: (Effective 1st of the Month Only) </div>	
<input type="checkbox"/> Non-Intermittent EMS Modeled Generator			<div style="border: 1px solid black; padding: 2px;"> Special Qualifying Facility <input type="checkbox"/> YES <input type="checkbox"/> NO </div>
<input type="checkbox"/> Intermittent Settlement Only Generator (<5MW)	<input type="checkbox"/> Resource ID Added		<div style="border: 1px solid black; padding: 2px;"> FERC Docket Number (Required for SQF/QF Status) </div>
<input type="checkbox"/> Non-Intermittent Settlement Only Generator (<5MW)			

Initial Registration:

This box should only be checked for a new generator. Prior to activation, a new unit needs to meet the requirements of section I.3.9 of the ISO New England Inc. Transmission, Markets and Services Tariff, including filing a Generation Proposed Plan Application (PPA) according to ISO New England Planning Procedure (PP) 5-1. Please reference ISO New England Operating Procedure 14 (OP-14) and Operating Procedure 18 (OP-18) for additional information pertaining to modeled generator assets.

Modify Existing:

This box should be checked if there is a change in the generator's registration information and the revision number is 1 or greater.

Retire Existing:

This box should only be checked if a generator asset is being retired. Please go through Attachment A – Generator Asset Retirement Checklist of this user guide to determine if all steps have been completed to be able to properly retire the generator asset. **Attachment A shall be completed and then submitted with the GARF to initiate a retirement. If the Generator Asset is a Designated Black Start Resource, a minimum of 1 year's notice on the retirement is required.**

Ownership Change - Asset:

If there is an ownership change of the entire asset or a portion, this box should be checked as well as the box for 'Modify Existing.' (Effective only on the 1st of the Month)

Meter Reader Change:

This box should only be checked if the meter reader is being changed.

Lead Market Participant Change - Asset:

This box should be checked if there is a change in the Lead Market Participant for the Asset.

Lead Market Participant Change for the Resource:

This box should be checked if there is a change in the Lead Market Participant for the Resource. (Timing for implementation is subject to ISO Approval)

Intermittent EMS Modeled Generator:

A generator asset that meets OP-18 requirements, is modeled in the EMS Network Model, and is an Intermittent Power Resource. Please reference ISO New England Market Rule 1 for Intermittent Power Resource definition and further information.

Non-Intermittent EMS Modeled Generator:

A generator asset that meets OP-18 requirements, is modeled in the EMS Network Model, and is not an Intermittent Power Resource. Please reference ISO New England Market Rule 1 for Intermittent Power Resource definition and further information.

Intermittent Settlement Only Generator (<5 MW):

A generator asset that does not meet OP-18 requirements, is an Intermittent Power Resource, and its annual average SCC or its rating in any month is less than 5 MWs. Please reference ISO New England Market Rule 1 for Intermittent Power Resource definition and further information.

Non-Intermittent Settlement Only Generator (<5 MW):

A generator asset that does not meet OP-18 requirements, is not an Intermittent Power Resource, and its annual average SCC or its rating in any month is less than 5 MWs. Please reference ISO New England Market Rule 1 for Intermittent Power Resource definition and further information.

Asset Name Change:

This field is filled in for generator name changes (i.e. different from what is entered in Section 3 and currently in ISOs system of record). The name must be 30 characters or less. (Effective only on the 1st of the Month)

Resource ID Added:

Check box is only required for Capacity Resources.

SCC Change SOG ONLY:

This box should indicate if a change was made to the winter and/or summer seasonal claimed capability in Section 5. This box is only for settlement only generators (SOGs).

Net Metered Facility:

Mark yes if there is load behind the meter at the facility that is not a Station Service Load.

Special Qualifying Facility:

If yes, provide the FERC Docket Number and provide the PURPA Contract.

FERC Docket Number:

This box is required for Qualifying Facility status. Note that Special Qualifying Facilities will be required to submit evidence of their *Contractual Arrangement* per ISO New England Manual for Registration and Performance Auditing, (M-RPA).

SECTION 3 – Generator Asset Registration Action

Section 3: GENERATION Asset Registration			
Asset Name:	<input type="text"/>	Asset ID#	<input type="text"/> <<NEW Asset ID to be assigned by ISO-NE
Generator Type:	<input type="text"/>	Resource ID#	<input type="text"/>
Metering Domain Name:	<input type="text"/>	Load Zone ID#	<input type="text"/>
LD.Node:	<input type="text"/>	Metering Domain ID#:	<input type="text"/>
LD.Node ID and Description (Settlement Only; Consult Host Participant)		UN. Nodal Description	<input type="text"/>
		If new, ISO Completes	
Location of Facility:	Address:	<input type="text"/>	State: <input type="text"/>
	City/Town:	<input type="text"/>	
Asset Owner(s):			
ID #1	Name #1	<input type="text"/>	% Own #1 <input type="text"/>
ID #2	Name #2	<input type="text"/>	% Own #2 <input type="text"/>
ID #3	Name #3	<input type="text"/>	% Own #3 <input type="text"/>
ID #4	Name #4	<input type="text"/>	% Own #4 <input type="text"/>
ID #5	Name #5	<input type="text"/>	% Own #5 <input type="text"/>
ID #6	Name #6	<input type="text"/>	% Own #6 <input type="text"/>
Host Participant:	<input type="text"/>	Participant ID#	<input type="text"/>
	<input type="text"/>		<input type="text"/>
E-Mail:	<input type="text"/>		
Asset Lead Market Participant Name:	<input type="text"/>	Participant ID#	<input type="text"/>
	<input type="text"/>		<input type="text"/>
E-Mail:	<input type="text"/>		
Resource Lead Market Participant Name (if different than the Asset):	<input type="text"/>	Participant ID#	<input type="text"/>
	<input type="text"/>		<input type="text"/>
E-Mail:	<input type="text"/>		
NEPOOL Assigned Meter Reader Company Name or its Agent:	<input type="text"/>	Participant ID#	<input type="text"/>
	<input type="text"/>		<input type="text"/>
E-Mail:	<input type="text"/>		

Asset Name:

The asset name must be 30 characters or less.

Asset ID#:

The Asset ID is a unique ISO-NE identifier for the Asset. Asset ID numbers are assigned by the ISO during the Initial Registration Process and this field shall be left blank if the form is for Initial Registration.

Generator Type:

This refers to the actual type of generator and not the fuel type. Choose the generator type using the drop down list on the form.

Resource ID#:

The Resource ID is a unique ISO-NE identifier for the FCM Resource. New FCM Resource IDs are generated automatically with a FCM show of interest. Existing FCM Resource IDs can be found in the Forward Capacity Tracking System.

Load Zone ID#:

The Load Zone ID# must be identified. For help with this field please contact the host participant. Choose the load zone ID# using the drop down list on the form.

Metering Domain Name:

The Metering Domain Name must be identified. For help with this field please contact the host participant.

Metering Domain ID#:

The Metering Domain ID# must be identified. For help with this field please contact the host participant.

LD.Node ID and Description (SOG; consult Host Participant)

This field should contain the LD Nodal Description. Consult with the Host Participant to obtain this information.

UN. Nodal Description:

This field should contain the UN Nodal Description. It will be filled in by the ISO for a new generator.

Location of Facility:

This field should contain the address of the facility.

Asset Owner(s):

Asset Owner(s) must be listed and the total must equal 100% ownership. Asset Owner(s) must be settleable market participants. Ownership changes can only be made effective on the first of the month.

Host Participant:

The Host Participant is a Market or Governance Participant transmission or distribution provider that reconciles the loads within the metering domain. This field should be filled with the Host Participant

name, Market Participant ID#, and Market Participant phone number, and Market Participant E-Mail.

Asset Lead Market Participant:

The Asset Lead Market Participant is the participant responsible for the day to day bidding of the asset in eMarket. This field should be filled with the Asset Lead Market Participant name, Market Participant ID#, Market Participant phone number, and Market Participant E-Mail.

Resource Lead Market Participant:

The Resource Lead Market Participant is the participant responsible for the bidding of the resource and receives settlements for capacity on the resource. This field should be filled with Resource Lead Market Participant name, Market Participant ID#, Market Participant phone number, and Market Participant E-Mail if different from the Asset Lead Market Participant.

NEPOOL Assigned Meter Reader Company Name or its Agent:

The participant responsible reports to the ISO the hourly and monthly MWh associated with the Asset. These MWh are used for settlement. 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. This field should contain assigned meter reader company name or agent name, Market Participant ID#, Market Participant phone number, and Market Participant E-Mail.

SECTION 4 – Routing and Authorized Signature(s) Affirming Change

Section 4: Routing and Authorized Signature(s) Affirming Change	
For transfer of ownership rights, reference Manual-RPA, Section 1.1.1 and 1.4.2. Required signatures should be on one form prior to submittal.	
Company:	<input type="text"/>
Role:	Existing Lead Market Participant of the Asset
E-Mail:	<input type="text"/>
Date:	<input type="text"/>
Type Name:	<input type="text"/>
Signature:	<input type="text"/>
Company:	<input type="text"/>
Role:	Existing Asset Owner
E-Mail:	<input type="text"/>
Date:	<input type="text"/>
Type Name:	<input type="text"/>
Signature:	<input type="text"/>
	<input type="checkbox"/> Same as Existing LMP
Company:	<input type="text"/>
Role:	Existing Lead Market Participant of the Resource
E-Mail:	<input type="text"/>
Date:	<input type="text"/>
Type Name:	<input type="text"/>
Signature:	<input type="text"/>
	<input type="checkbox"/> Same as Existing LMP
Company:	<input type="text"/>
Role:	Receiving Lead Market Participant of the Asset
E-Mail:	<input type="text"/>
Date:	<input type="text"/>
Type Name:	<input type="text"/>
Signature:	<input type="text"/>
Company:	<input type="text"/>
Role:	Receiving Asset Owner
E-Mail:	<input type="text"/>
Date:	<input type="text"/>
Type Name:	<input type="text"/>
Signature:	<input type="text"/>
	<input type="checkbox"/> Same as Receiving LMP
Company:	<input type="text"/>
Role:	Receiving Lead Participant of the Resource
E-Mail:	<input type="text"/>
Date:	<input type="text"/>
Type Name:	<input type="text"/>
Signature:	<input type="text"/>
	<input type="checkbox"/> Same as Receiving LMP

Role: Existing Lead Market Participant of the Asset:

Market Participant name of the existing Lead Market Participant of the Asset.
Name, signature, and email address of the representative signing on behalf of the existing Lead Market Participant of the Asset. Person must be in CAMS under the existing Lead Market Participant.

Role: Existing Asset Owner:

Market Participant name of the existing Asset Owner.
Name, signature, and email address of the representative signing on behalf of the existing Asset Owner. Person must be in CAMS under the existing Asset Owner.

Note: Check box if same as Existing Lead Market Participant and leave blank.

Role: Existing Lead Market Participant of the Resource:

Market Participant name of the existing Lead Market Participant of the Resource.
Name, signature, and email address of the representative signing on behalf of the existing Lead Market Participant of the Resource. Person must be in CAMS under the existing Lead Market Participant.

Note: Check box if same as Existing Lead Market Participant and leave blank.

Role: Receiving Lead Market Participant of the Asset:

Market Participant name of the receiving Lead Market Participant of the Asset on a transfer of the Asset.

Name, signature, and email address of the representative signing on behalf of the receiving Lead Market Participant of the Asset. Person must be in CAMS under the receiving Lead Market Participant.

Role: Receiving Asset Owner:

Market Participant name of the receiving Asset Owner on a transfer of the Asset.

Name, signature, and email address of the representative signing on behalf of the receiving Asset Owner. Person must be in CAMS under the receiving Asset Owner.

Note: Check box if same as Receiving Lead Market Participant and leave blank.

Role: Receiving Lead Market Participant of the Resource:

Market Participant name of the receiving Lead Market Participant of the Resource on a transfer of the Resource.

Name, signature, and email address of the representative signing on behalf of the receiving Lead Market Participant of the Resource. Person must be in CAMS under the receiving Lead Market Participant.

Note: Check box if same as Receiving Lead Market Participant and leave blank.

Company:		
Role:	Host Participant Meter Reader	
E-Mail:		
Date:		
Type Name:		
Signature:		
Company:		
Role:	Assigned Meter Reader	
E-Mail:		
Date:		<input type="checkbox"/> Same as Host Participant Meter Reader
Type Name:		
Signature:		

* Must be submitted to ISO Resource Registration & Performance Auditing group in accordance with Manual-RPA, Registration & Performance Auditing.
 *A change of Assigned Meter Reader from one entity to another within the same holding company only requires notification of the change to ISO and the affected asset owner(s), but does not require submission of this form.
 SETTLEMENT ONLY GENERATORS (≤ 1MW) per Operating Procedure 14 if approved will be implemented within 7 days.
 SETTLEMENT ONLY GENERATORS (> 1MW) have additional requirements due 60 days prior to activation (see links below).
[NX-9 Forms](#) [PP5-1](#)
[NX-12 Form](#) [Large or Small Generator Interconnection Request Form](#)
[NX-12D Form](#) [Small Generator Notification Form](#)

Please FAX to 1-877-654-4220 or E-MAIL a PDF File to opareg@iso-ne.com
 Required copy sent to Host Participant v20 - 10-20-10

Role: Host Participant Meter Reader:

The Host Participant is a Market or Governance Participant transmission or distribution provider that reconciles the loads within the metering domain.
 Name, signature, and email address of the representative signing on behalf of the Host Participant Meter Reader.

Role: Assigned Meter Reader:

The Market Participant responsible reports to the ISO the hourly and monthly MWh associated with the Asset. These MWh are used for settlement.
 Name, signature, and email address of the representative signing on behalf of the Assigned Meter Reader.
 Note: The Meter Reader’s signature is required for Initial Registration of assets or Retirement of assets. Check box if same as Host Participant Meter Reader and leave blank.

Please FAX the final signed copy to 1-877-654-4220 or EMAIL the final signed copy to opareg@iso-ne.com. An Excel version shall be emailed to opareg@iso-ne.com with all changes to existing forms highlighted in bold red.

Required copy sent to Host Participant:

The box at the bottom of the form is checked to indicate that the Participant has been in contact with the Host Participant and has sent a copy to the Host Participant.

SECTION 5 – Additional Generation Information Required for SOG's

Section 5: Additional Generation Information Required for SOGs. The temperature curve for SOGs that are Gas Turbines, Combined Cycle Units and Pseudo-Combined Cycle assets			
EMS Modeled generators will supply this data on their respective NX-12 Forms			
SOG ONLY Seasonal Claimed Capability			
WSSC	<input type="text"/>	SSCC	<input type="text"/>
° F	Capability (MW) @	° F	Capability (MW)
0	_____	51	_____
1	_____	52	_____
2	_____	53	_____
3	_____	54	_____
4	_____	55	_____
5	_____	56	_____
6	_____	57	_____
7	_____	58	_____
8	_____	59	_____
9	_____	60	_____
10	_____	61	_____
11	_____	62	_____
12	_____	63	_____
13	_____	64	_____
14	_____	65	_____
15	_____	66	_____
16	_____	67	_____
17	_____	68	_____
18	_____	69	_____
19	_____	70	_____
20	_____ <= Must equal WSCC	71	_____
21	_____	72	_____
22	_____	73	_____
23	_____	74	_____
24	_____	75	_____
25	_____	76	_____
26	_____	77	_____
27	_____	78	_____
28	_____	79	_____
29	_____	80	_____
30	_____	81	_____
31	_____	82	_____
32	_____	83	_____
33	_____	84	_____
34	_____	85	_____
35	_____	86	_____
36	_____	87	_____
37	_____	88	_____
38	_____	89	_____
39	_____ Must equal SCC =>	90	_____

SOG (ONLY) Seasonal Claimed Capability:

WSSC - Represents the net maximum dependable load carrying capability for the winter capability period. If applicable should equal the 20 degree reading on the curve.

SSCC - Represents the net maximum dependable load carrying capability for the summer capability period. If applicable should equal the 90 degree reading on the curve.

Temperature Curve for SOGs:

The SOG assets temperature curve which is typically non-linear by nature showing the degradation of output as the ambient (or inlet) temperature increases. This curve should be an accurate depiction of the assets output at every ambient temperature degree increment.

Attachment A – Generator Asset Retirement Checklist

1. Is the asset part of a Capacity Resource?

Yes No

If 'yes', proceed to #2.

If 'no', no additional checks are required. Proceed with the retirement request.

2. If the Resource is a Capacity Resource, does the Resource have any Capacity Supply Obligations after the requested retirement effective date?

Yes No

If 'yes' the generator asset is not eligible for retirement until the Resource has successfully shed all capacity obligations between the requested retirement effective date and the Capacity Commitment Period for which a Permanent De-List bid or Non-Price Retirement applies.

If 'no' proceed to #3.

3. If the Resource is a Capacity Resource, does the Resource have a cleared Permanent De-List Bid?

Yes No

If "yes", for which Capacity Commitment Period did the Permanent De-List clear? _____
No additional checks are required. Proceed with the retirement request.

If 'no' proceed to #4.

4. If the Resource is a Capacity Resource that does not have a cleared Permanent De-List bid, does the Resource have an approved Non-Price Retirement Request?

Yes No

If "yes", for which Capacity Commitment Period was the Non-Price Retirement approved?

No additional checks are required. Proceed with the retirement request.

If 'no', proceed to #5.

5. Was a Non-Price Retirement Request submitted that is still under review or was rejected for reliability?

No Still Under Review Rejected for Reliability

If 'No', the generator asset is not eligible for retirement until the Resource has successfully shed all capacity obligations between the requested retirement effective date and the Capacity Commitment Period for which a Permanent De-List bid or Non-Price Retirement applies.

If 'Still Under Review', the generation asset is not eligible for retirement until reliability review is complete.

If 'Rejected for Reliability', was the ISO notified of the intent to retire anyway within 6 months of receiving notice from the ISO that the Non-Price Retirement Request has not been approved for reliability reasons as set out in Section III.13.2.5.2.5.3(a)(iii) of the Tariff?

Yes No

If 'yes', no additional checks are required. Proceed with the retirement request.

If 'no', the generator asset is not eligible for retirement since the ISO was not notified within 6 months of receiving notice that the NPR had not been approved for reliability reasons.