	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026


SOP-RTMKTS.0080.0020

Establish Regulation Resources

Contents

1. Objective	2
2. Background	2
3. Responsibilities.....	2
4. Controls	2
5. Instructions.....	4
5.1 Establish a Regulation Resource	4
5.2 Establish Regulation Resource Notifications	6
6. Performance Measures.....	7
7. References.....	7
8. Revision History	7
9. Attachments	8
Attachment A - Establish Regulation Resources Checklist	9

*This document is controlled when viewed on the ISO New England Internet web site. When downloaded and printed, this document becomes **UNCONTROLLED**, and users should check the Internet web site to ensure that they have the latest version.*

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026

1. Objective

The intent of this procedure is to define the process for establishing each resource that provides Regulation.

2. Background

ISO New England (ISO) is required to maintain a portion of the Synchronized Capability on Regulation in accordance with ISO New England Operating Procedure No. 8 - Operating Reserve and Regulation (OP-8). The specific Regulation Requirements are identified under the Operations Forecasting section of the ISO New England website.

The Daily Regulation Requirements are located at:

<http://www.iso-ne.com/isoexpress/web/reports/operations/-/tree/daily-regulation-requirement>

A select sub-set of Generators are capable of providing regulation service. Alternative Technology Regulation Resources (ATRRs) are also capable of providing regulation service. All resources providing regulation service are required to meet certain requirements, including auditing and testing requirements, to participate in the Regulation market.

3. Responsibilities

The Manager, Operations Analysis and Integration (MOAI) (or designee) is responsible for the coordination between ISO and Market Participants in establishing a resource as a provider of Regulation.

The Loader Operator is responsible for selecting Regulation resources.

The Analyst, System Operations and Market Administration is responsible for the day-to-day auditing of Regulation resource performance. The Auditing team works ensure that resources assigned to provide Regulation are properly audited.


4. Controls

The Market Participant must make a formal request to become a Regulation resource through Ask ISO.


When notified by the Generation and Load Administrator that a Regulation resource has completed the registration process, the MOAI (or designee) performs the applicable actions in this procedure for that resource and completes Appendix A - Establish Regulation Resource Checklist for documentation.

Each Regulation resource is audited in accordance with the following:

- This procedure

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026


- ISO New England Manual for the Regulation Market Manual M-REG (M-REG)
- ISO New England - ISO New England Inc. Transmission, Markets and Services Tariff Section III, ISO New England Market Rule 1 - Standard Market Design (Market Rule 1)
- SOP-RTMKTS.0186.0020 - Review Regulation Data

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026


5. Instructions

5.1 Establish a Regulation Resource

1. When establishing a Regulation Resource, the MOAI (or designee) shall perform the following actions and complete Attachment A for documentation:
 - A. Consult with each Regulation resource Market Participant preparing to enter the Regulation market and work with responsible ISO departments to determine if the Regulation resource has :
 - (1) Received the appropriate AGC Setpoint change deadband and the AGC Setpoint change deadband has been entered into the ISO EMS.
 - (2) Arranged with ISO to receive AGC Setpoint signals from SCADA.
 - B. If the Regulation resource is an ATRR and has **no** operational history of providing Regulation, place the Resource into the Regulation Test Environment (RTE) until such time as sufficient operational information has been collected to satisfy one or the other the following conditions:
 - Verify reasonable operating parameters for the Resource
 - Determine that the Resource does **not** meet eligibility requirements necessary to participate in the Regulation Market.
 - C. Determine if sufficient operational information has been collected to require the Resource exit the RTE.
 - (1) A Resource may operate in the RTE for up to three months.
 - If in the judgment of the MOAI (or designee) insufficient operational information has been collected (due to, for example, the resource being unavailable) a Resource may request an extension from the MOAI (or designee).
 - If after three months it is determined by the MOAI (or designee) that a Resource does **not** meet eligibility requirements necessary to participate in the Regulation Market, the resource must exit the RTE;
 - The resource may attempt remediation and upon approval from the MOAI (or designee), re-enter the RTE for up to an additional three months.


	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026

- D. Before entry into the Regulation Market, determine if the Regulation resource has passed a minimum response test and verify the Regulation resource responded properly to a small change in simulated AGC setpoint values manually inserted by ISO.
2. The MOAI (or designee) shall perform the following:
 - A.
 - B. Verify Regulation Capability and Automatic Response Rate submitted by the Market Participant, as applicable on the Generator Technical Data Form NX-12 or ATRR Technical Data Form NX-12G,
 - C. Verify receipt of AGC Setpoint
 - D. Judge the performance of resources in the RTE to determine when they may or must exit the RTE, and whether they may enter the Regulation Market.
 - E. Assist the Analyst, System Operations and Market Administration with judging performance in the case of complicated performance (or incorrect scoring by the Regulation Performance Monitor)
3. In addition, the MOAI shall audit each resource providing Regulation service in accordance with the following:
 - This procedure
 - ISO New England Manual for the Regulation Market Manual M-REG (M-REG)
 - ISO New England - ISO New England Inc. Transmission, Markets and Services Tariff Section III, ISO New England Market Rule 1 - Standard Market Design (Market Rule 1)
 - SOP-RTMKTS.186.0020 - Review Regulation Data

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026

5.2 Establish Regulation Resource Notifications

1. After all items in Section 5.1 have been completed and/or verified, the MOAI (or designee) shall
 - A. Inform the Operations Shift Supervisor that the Regulation resource has become available for Regulation.
 - B. Inform the Regulation resource that participation in the Regulation Market may commence
 - C. Notify a Regulation resource that participates or will participate in the RTE when the Resource may enter the RTE and/or may or must exit the RTE.
 - D.

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026

6. Performance Measures

None

7. References

ISO New England - ISO New England Inc. Transmission, Markets and Services Tariff
Section III, ISO New England Market Rule 1 - Standard Market Design (Market Rule 1)


ISO New England Manual for the Regulation Market Manual M-REG (M-REG)

ISO New England Operating Procedure No. 8 - Operating Reserve and Regulation
(OP-8)

ISO New England System Operating Procedure SOP-RTMKTS.0186.0020 - Review
Regulation Data

8. Revision History


Rev. No.	Date	Reason	Contact
0	09/30/05	Original	Mike Potishniak
1	10/01/06	Changes for ASM Phase II	Mike Potishniak
2	03/17/09	Periodic review performed, revised for current responsibilities and procedures in use	Mike Potishniak
3	01/31/11	Biennial review by procedure owner; Updated Header copyright date and replaced Footer page numbers with Page X of Y format; Defined acronym "ISO"; Globally replaced "Operations Principal Engineer" with "Principal Engineer, Operations"; Step 5. Corrected Manual 11 title and defined acronym; NOTE prior to step 5.6 used Manual 11 acronym; Section 7 Provide correct title for Market Rule 1 and deleted OP-8, RTMKTS.0180.0057	Mike Potishniak
4	01/21/13	Biennial review by procedure owner; Headers, updated copyright date, Procedure Owner; 1 st page Footer, deleted disclaimer 2 nd paragraph; Modified format and minor editorial changes to Section 5 to clarify and expand tasks	William Henson
5	01/14/15	Biennial review by procedure owner; Defined title acronym and replaced Principal Engineer, Operations with Operations Performance, Training and Integration (OPTI) Engineer (or OPTI, Engineer as applicable) ; Globally, corrected Process name from "Manage Regulation " to "Dispatch Regulation" ; Globally (per direction from ROC) eliminated use of "shall" from directed actions; Globally made changes to be consistent with current practices and management expectations;	William Henson

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026

Rev. No.	Date	Reason	Contact
6	06/21/16	Completion of biennial review by procedure owner; Major document changes to address Internal Audit recommendations, and to be consistent with current practices and management expectations; Section 7 added OP-8 and SOP-RTMKTS.0186.0020, deleted OP-14 and OP-18; Added new Attachment A;	William Henson
6.1	03/26/18	Periodic review performed requiring no changes; Made administrative changes required to publish a Minor Revision (added required corporate document identity to all page footers);	William Henson
6.2	02/04/20	Periodic review performed requiring no changes	William Henson
6.3	01/28/22	Periodic review performed requiring no changes	William Henson
7	01/24/24	Biennial review performed by procedure owner; Removed unnecessary steps; Added clarity to the actions taken; Replaced SPIE with MOAI.	William Henson

9. Attachments

Attachment A - Establish Regulation Resource Checklist

	© ISO New England Inc. 2024	Procedure: Establish Regulation Resources
	Process Name: Dispatch Regulation	
	Procedure Number: RTMKTS.0080.0020	Revision Number: 7
	Procedure Owner: William Henson	Effective Date: January 24, 2024
	Approved By: Director, Operations	Valid Through: January 24, 2026

Attachment A - Establish Regulation Resources Checklist

This checklist is to be completed by the System Performance and Integration Engineer (or designee) to document the activities performed during the process to establish a Regulation resource.

Steps to Establish a Regulation Resource		Date Completed
1.	GLA notifies MOAI that Regulation resource is registered	
2.	Verify AGC Setpoint change deadband in EMS	
3.	Verify that resource is able to receive AGC Setpoints	
4.	Has resource passed minimal responsiveness test	Y / N
5.	Is resource an ATRR?	Y / N
	If Y, will it participate in RTE?	Y / N
	a. Resource enters RTE	
	b. Resource exits RTE	
	Is there sufficient data?	Y / N
	Move to Regulation market?	Y / N
	c. Date resource re-enters RTE (if applicable)	
	d. Resource exits RTE	
	Is there sufficient data?	Y / N
	Move to Regulation market?	Y / N
6.	Notify Operations Shift Supervisor that a new resource is available for Regulation	