
	© ISO New England Inc. 2024	Procedure: Perform Electric Gas Coordination
	Process Name: Perform Reserve Adequacy Commitment	
	Procedure Number: RTMKTS.0050.0011	Revision Number: 0.3
	Procedure Owner: Thomas Knowland	Effective Date: April 25, 2024
	Approved By: Director, Operations	Review Due Date: April 25, 2026

SOP-RTMKTS.0050.0011 - Perform Electric Gas Coordination

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1. Objective

The intent of this procedure is to define the business process that is performed to account for the availability of natural gas for gas fired Resources during normal and abnormal conditions.

2. Background

ISO New England (ISO) depends on a significant portion of its generation fleet to nominate and schedule natural gas from various sources. In the interest of improved situational awareness, efforts have been made to improve the coordination with the operations personnel of the interstate natural gas pipelines. Coordination efforts are enhanced using information that is gathered from publically available sources which is used to guide communication with pipeline operators when system conditions warrant such communication.

3. Responsibilities

NOTE


Any North American Electric Reliability Corporation (NERC) Certified System Operator, certified at the RC level, has the authority to take action(s) required to comply with NERC Reliability Standards.

1. The Forecaster is responsible for:

- Evaluating the availability of natural gas on a Day-Ahead (DA) basis and in Real-Time (RT)
- Communicating with gas-fired Resource operators and/or Pipeline operators when there are uncertainties that gas will be available to complete the expected commitment
- Sending gas reports to ISO Operations management and pipeline operations personnel
- Committing non-Fast Start Resources on a Day-Ahead basis and in RT
- Contacting long lead time Resources and communicating Start-Up Orders


2. The Tariffs, Schedules, & OASIS (Open-Access Same-Time Information System) Administrator (TSO) is responsible for:

- Preparing gas nominations reports to be utilized by the Forecaster and Operations Shift Supervisor for analysis of adequate gas supply for RT and the Next Day
- Performing surveys of dual fuel generators to confirm any changes between primary and alternate fuels

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4. Controls

None

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5. Instructions

5.1 Routine Electric Gas Coordination


1. The Forecaster shall review all Gas Pipeline Electronic Bulletin Board notices throughout the course of the day and perform the following applicable actions:

NOTE

Under normal operating conditions, various functions are performed on a daily basis to facilitate electric/gas coordination and enhance reliability for both systems as described in sections 5.1.2 through 5.1.6 below.

During abnormal or emergency conditions, it is expected that the Forecaster proceeds to Section 5.2 and after completing the necessary emergency requirements, returns to this section and completes routine requirements as practical.

2. Determine the Resource Fuel Schedules
 - A. Prior to 1700, the on-shift TSO Administrator shall perform the following:
 - (1) Complete a survey confirming the fuel that will be used by each dual-fuel Generator for the next operating day.
 - a. Enter any changes in fuel supply in the Control Room Event Logserver
 - b. Generators that are expected to be out of service may be exempt from the survey
 - c. Generators that do **not** swap fuel for long periods of time (e.g. permanently on oil or oil only during winter months) may be exempt from the daily survey
 - (2) Upon completion of the survey, produce and distribute a Current Fuel report
 - a. If a particular fuel is in short supply, the Forecaster will use the Current Fuel report to determine the requirement to commit Supplemental Resources and make recommendations to the Operations Shift Supervisor.
3. Resource Specific Fuel Burns to Interstate Gas Pipelines
 - A. After the SCRA_A case is approved, the on shift Forecaster shall:
 - (1) Prepare a report of Resource specific hourly fuel burns to each pipeline operator for the next day
 - (2) Email a copy of the pertinent parts of the report to operations personnel of each of the following pipelines:

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- a. Algonquin (AGT)
- b. Iroquois
- c. Maritimes and Northeast (M&N)
- d. Portland Natural Gas Transmission System (PNGTS)
- e. Tennessee Gas (TGP)

(3) Email the next day Gas Forecast Summary report to Operations Management.

4. Collect Pipeline Bulletin Board Data


- A. After Approval of the SCRA_A case, the TSO Administrator shall run the Nominations Reports for the current and next gas days, and deliver the reports to the Forecaster.
- B. The Forecaster shall contact the Designated Entity (DE) for any Resources that the report indicates did **not** schedule sufficient gas to meet that Resources scheduled run for the next day.

5. Supplemental Commitment due to Potential Fuel Issues

- A. The Forecaster in consultation with the Operations Shift Supervisor shall determine if supplemental commitment of resources is required, after taking into account the following factors:
 - (1) Expected weather conditions, and gas unavailable due to cold weather conditions
 - (2) External area ties
 - (3) Regional gas pipeline conditions
 - (4) Transmission availability into local areas dependent upon gas-fired generation
 - (5) Resource availability projections, fuel surveys, and availability of long lead time resources

6. Weekend Outlook Report

- A. Each Friday during winter months, the Manager, Operations Forecast & Scheduling (or designee) shall produce a weekend outlook for ISO Reliability Coordinator Area (RCA)/Balancing Authority Area (BAA) for distribution to ISO System Operations personnel.
 - (1) Reports may continue to be produced at the discretion of the Manager, Operations Forecast & Scheduling.

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5.2 Abnormal/Emergency Pipeline Conditions

1. Notices Indicating Abnormal and/or Emergency Conditions on the Pipeline Infrastructure Serving Resources

NOTE


Notices indicating abnormal and/or emergency conditions on the pipeline infrastructure serving a Resource in the ISO RCA/BAA could come in the form of, but **not** limited to, Force Majeure, Operational Flow Orders, Imbalance Warnings or even a verbal notification.

- A. When electronic and or verbal notices indicating abnormal and or emergency conditions on the pipeline infrastructure serving a Resource in the ISO RCA/BAA are received, the Forecaster shall perform the following:
 - Notify the Operations Shift Supervisor
 - Notify the Manager, Operations Forecast & Scheduling (or designee)
 - Log the event in the Control Room Event Log Server
 - Confirm the following for Resources on the gas pipelines:
 - a. That each Resource has the ability to operate in accordance with the energy schedule and capacity limits provided by ISO when committed in the RAA process or Day Ahead Markets
 - b. That each gas-fired, fast-start Resource is available to supply 10 and 30 minute reserves for the next operating day
 - Account for reductions in the Forecast Capacity Analysis for any Resource that is **not** able to provide the services in the Current Operating Plan.
 - a. As necessary and feasible, commit additional Resources, subject to the availability of fuel
 - If necessary, using the template in Attachment A of this procedure, send an email via Customer Support that includes only publicly available information to each applicable Resource DE Management Contact, and/or Lead Market Participant (MP).
2. Communicate Abnormal Conditions to ISO New England System Interstate Pipelines
 - A. Whenever ISO enters or exits any abnormal and or emergency condition the on-shift Forecaster (or designee) shall immediately contact the four (4) interstate pipeline

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company control rooms and within the limits of the ISO New England Information Policy notify each interstate pipeline company of each abnormal condition, the action(s) taken and any impact(s).

- (1) The conditions that might trigger this notification can include but are **not** limited to the following:
 - a. Whenever an unexpected start up and or ramp up of a large gas-fired Resource or set of Resources on a pipeline may adversely impact pipeline operations.
 - b. Whenever there is an implementation of the actions of Master/Local Control Center No. 2 - Abnormal Conditions Alert (M/LCC 2) and while respecting the limits of the ISO New England Information Policy, the Forecaster should provide notification of the general reason for the alert including transmission constraints and or capacity constraints and the potential issues that may arise that may impact electric and gas operations.
 - c. Whenever there is an implementation of the actions of ISO New England Operating Procedure No. 4 - Action During a Capacity Deficiency (OP-4), the Forecaster should provide notification of any action(s) impacts on gas and electric operations
 - i. The Manager, Forecast and Scheduling, (or designee) shall relay information obtained from the regional natural gas companies to the Forecaster.
 - ii. The Forecaster shall utilize the information gathered from the regional natural gas companies in the development of the 7-Day Capacity Margin Forecast.

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6. Performance Measures

None

7. References

ISO New England Inc. Transmission, Markets, and Services Tariff (ISO Tariff), Attachment D-ISO New England Information Policy

ISO New England Operating Procedure No. 4 - Action During a Capacity Deficiency (OP-4)


ISO New England Operating Procedure No. 21 - Energy Inventory Accounting and Actions During An Energy Emergency (OP-21), Appendix B - Electric-Gas Operations Committee's (EGOC) Operations Communications Protocol

Master/Local Control Center No. 2 - Abnormal Conditions Alert (M/LCC 2)

SOP-RTMKTS.0050.0010 - Perform Reserve Adequacy Assessment


8. Revision History

Rev No.	Date	Reason	Contact
0	05/31/18	Initial procedure	Thomas Knowland
0.1	05/14/20	Biennial Review. No intent changes; made administrative change to correct revision numbering in Revision History and update position title from Org chart.	Thomas Knowland
0.2	04/29/22	Periodic review performed by procedure owner requiring no changes.	Thomas Knowland
0.3	04/25/24	Biennial review performed by procedure owner requiring no changes.	Thomas Knowland

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9. Attachments

Attachment A - Email Template

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Attachment A - Email Template

NOTE

The following guideline or one tailored to the current situation can be used as a template for drafting an email notification;

“ISO has received the following information via the publicly available notices published by the gas pipelines:

(Insert Notice, such as Operational Flow Order or Force Majeure, etc.)

“Because of this situation, it is critical that each applicable Resource DE or Lead MP provide ISO with up to date and reliable estimates of each Resource current and future capabilities including the ability to have fuel for a Resource under their control. This includes immediately reporting any information that may prevent a Resource from operating in accordance with submitted offer data, including, but **not** limited the following:

- Planned, Maintenance and or Forced outages of the Resource’s facilities as soon as that information is available
- Immediate reporting of any updates to outages including overruns and or early returns to service of the Resource’s facilities
- Any high risk activities at a Resource location that may reduce its capability or place the capability at risk
- Any fuel reductions or outages that may limit a Resource’s ability to perform in any way
- Any changes to any operating limits of a Resource which must reflect the most accurate and up to date information available
- Any changes at all in a Resource’s ability to follow dispatch instructions including manual response rates, ability to provide reserve, ability to provide energy, and/or ability to provide capacity
- Any changes in projected Resource’s Self-Schedule

It is incumbent that each Resource DE/Lead MP provides this information, as well as all other information required under ISO rules and procedures. If you should have any questions please contact the ISO New England Control Room Forecast Desk at (413) 535-4340.”