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	Process Name: Capture and Evaluate Outage Requests	
	Procedure Number: OUTSCH.0030.0020	Revision Number: 31.1
	Procedure Owner: Maya Ault	Effective Date: June 25, 2025
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SOP-OUTSCH.0030.0020

Perform Short Term Outage Coordination


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1. Objective

The objective of this procedure is to document the responsibilities of ISO New England (ISO) staff with regard to transmission equipment/facility outage coordination. These responsibilities include the following processes:

- Receiving and processing each transmission outage request submitted to ISO
- Performing outage analysis with respect to system reliability and market efficiency
- Approving and/or denying (“Denied”, or “Cancelled”) each outage request
- Closing outage requests as required

This procedure describes the following process:

- Forecasting daily estimates of External Transfer Limits for interfaces between ISO and each neighboring Reliability Coordinator Area/Balancing Authority Area (RCA/BAA).
- Calculating estimates for Day-Ahead interface limits, and Double Contingency Import Limits requirements based on transmission topology, system demand and generation using the Generation Requirements for Transmission (GRT) spreadsheet.


This procedure does **not** in any way change the intent of ISO New England Operating Procedure No. 3 - Transmission Outage Scheduling (OP-3) but rather is intended to clarify responsibilities delegated to ISO staff by OP-3.

Compliance with this procedure is necessary to support the reliable and cost-effective operation of the power system.

2. Background

OP-3 establishes the procedure by which each Transmission Owner (TO), Market Participant (MP), Local Control Center (LCC), and ISO interact to develop transmission equipment outage plans, for both Long-Term Outages (\geq 21 days in advance of the Operating Day) and Short Term Outages ($<$ 21 days in advance of the Operating Day).

As the date of a proposed outage is confirmed, the applicable LCC along with the applicable neighboring RC/BA coordinate and review each proposed transmission outage request in the applicable region prior to ISO evaluating and providing final approval of the proposed outage. Each transmission outage request is submitted primarily by using the ISO Outage Scheduling software, or as a backup method by email [refer to Master/Local Control Center Procedure

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No. 7 - Processing Outage Applications (M/LCC 7)]. The ISO Outage Scheduling software uses internet-based communications to schedule, monitor and track each transmission outage. ISO evaluates the proposed outage given the forecasted conditions at the time of the evaluation and in accordance with the criteria contained in ISO New England Operating Procedure No. 19 - Transmission Operations (OP-19). ISO then re-evaluates the outage request as system conditions change over time. In conducting its analysis, ISO uses advanced tools to model the Bulk Electric System (BES) and apply contingencies to evaluate the potential impact of an outage that serves as the basis for the approval/denial of an outage request. Such tools include, but are **not** limited to: Power System Simulation for Engineering (PSS/E), Powerworld, Powerflow, Transmission Adequacy and Reliability Assessment (TARA), Contingency Analysis (CA) and an Interface Limits Calculator (ILC). ISO communicates the transmission outage request evaluation results to each applicable LCC and neighboring RC/BA and also posts approved transmission outages to the ISO public website to comply with Federal Energy Regulatory Commission (FERC) requirements.

External Transfer limits are also created to establish the maximum amount of power that can be reliably transferred over the New England tie-lines per the FERC, the North American Electric Reliability Corporation (NERC), and ISO operating criteria for anticipated system conditions.

Transmission studies have identified that subsets of the BES in certain geographical areas are constrained by transmission capabilities. When operating issues are observed or anticipated by ISO, an LCC, or an individual TO, the Real-Time Studies group (RTS) performs transmission studies, as needed, to identify appropriate thermal, voltage and stability limits for the constraint.

NERC Reliability Standard TOP-003 - Operational Reliability Data requires each Transmission Operator (TOP) and BA to be notified of the status or degradation of a Remedial Action Scheme/ Automatic Control Scheme (RAS/ACS) that impacts reliability. The ISO Outage Scheduling software will track the status of a RAS/ACS if it is Out-of-Service (OOS). The status of a RAS/ACS is understood to be In-Service if there is **no** outage request in the ISO Outage Scheduling software.


3. Responsibilities

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NOTE

Any 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 Director, Operations Support Services (OSS) is responsible for monitoring that this procedure is adhered to for system risk mitigation.
2. The Manager, Transmission Outage Coordination (TOC) is responsible for:
 - Responding to relevant Application Modification Request (AMR) issues and performing corrective actions to resolve issues
3. The Manager, Resource Outage Coordination (ROC) is responsible for:
 - Verifying the ISO Outage Scheduling software is updated with Designated Blackstart Resources (DBR) in accordance with Master/Local Control Center Procedure No. 18 - System Restoration Plan Attachment O - Designated Blackstart Resources Confidential (M/LCC 18O).
4. The Intermediate Outage Coordinator (IOC) is responsible for:
 - Performing economic studies in accordance with OP-3 and as requested by an LCC or other ISO business unit
 - Supporting the TO and/or LCC to review opportunities to reposition an outage request that has been identified as having significant congestion impact
 - Performing the Network Model Maintenance process in the ISO Outage Scheduling software and/or Total Transfer Capability (TTC) Calculator, to support new network model releases
 - Update Master/Local Control Center Procedure No.7, Attachment C – Outage Coordination Verification and Revision Process for BES Category A and Category B Facilities (M/LCC 7C) to reflect the network model releases
 - Supporting the development and refinement of new and existing economic analysis tools and methods
 - Supporting the Resource Analyst and Transmission Outage Coordinators as needed
5. The Transmission Coordinator (TC) is responsible for:

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- Supporting the D3 Outage Coordinator Resource Outage Coordination in performing their duties and , as needed
 - Verifying that transmission outage information received from an LCC or neighboring RC/BA is disseminated to the appropriate parties so that each transmission outage request is studied within the required timeframe and Powerflows are updated properly
 - Evaluate forecasted system conditions and determine if a transmission outage needs to be postponed or potentially recalled
 - Reporting each RAS or ACS outage to the Operations Shift Supervisor via the ISO Outage Scheduling software to make them aware of the correct status of RAS/ACSs
 - Verifying that each submitted Short Term transmission outage request is approved by the applicable LCC prior to ISO review in accordance with OP-3
 - Verifying that each incorrectly submitted request is denied and that the appropriate party is notified to resubmit or reapply
 - Performing a daily initial review of each transmission outage request in the ISO Outage Scheduling software to determine if a complex study or advanced analysis should be performed, and contacting RTS, as necessary, to request that such studies be conducted
 - Performing the Network Model Maintenance process in the ISO Outage Scheduling software and/or Total Transfer Capability (TTC) Calculator, to support new network model releases
6. The Resource Analyst is responsible for:
- Studying and approving/denying each Short Term Generation Outage Request
 - Supporting the Transmission Coordinator and Transmission Outage Coordinators as needed
 - Coordination of nuclear work within 14 days prior to the Operating Day
 - In accordance with the directions in ISO New England Operating Procedure No. 2 - Maintenance of Communications, Computers, Metering, and Computer Support Equipment (OP-2), generating, reviewing and publishing the OP-2, Appendix D – OP-2 Approved Scheduled Maintenance Report (OP-2D) (Confidential).
7. The D3 Transmission Outage Coordinator is responsible for:

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- Studying and approving/denying each Short Term transmission outage request, that is at least three, but less than 21 days prior to the Operating Day
- Creating and updating the DAY_MM_DD_XXXXMW_OSD3 Powerflow case and beyond
- Reviewing each transmission outage request that affects a Resource and verifying that an outage request has been created in the ISO Outage Scheduling software, if required
- Verifying Market Sensitive and Major Transmission Element (MTE) flags are set appropriately in each transmission outage request that is being reviewed


8. The D2 Outage Coordinator is responsible for:

- Verifying accuracy, updating and renaming the Powerflow received from the D3 Outage Coordinator to the DAY_MM_DD_XXXXMW_OSD2 Powerflow
- Supporting the duties of the D3 Outage Coordinator and performing Resource outage coordination, as needed
- Analyzing and approving/denying each Short Term transmission outage request that is at least two, but less than 21 days prior to the Operating Day, as needed
- Analyzing and approving/denying each Short Term transmission outage Request that has a Outage Priority of “Forced or Emergency” (**not** in the current day) until the next day OSD1 case is turned over to the CR


NOTE

When a Forced or Emergency outage occurs in Real-Time and will extend past the current operating day, the applicable LCC will submit the transmission outage request and the CR will log the information in OPRALOG, which will inform Outage Coordinators via email. The Outage Coordinators will add comments into the Short Term ISO Study Tab and Summary field and update the application with the appropriate information for the D1, Market Operations Analyst and Forecaster.

- Calculating and posting the External Transfer limits on the Open Access Same-Time Information System (OASIS) and ISO public website by 0830
- Posting of External Transfer limits impacting the DAM after 0830 must be coordinated with the Manager, Transmission Outage Coordination or designee and communicated to Market Operations Analyst and Forecaster via face-to-face or email

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- Prior to 0845 meeting, reviewing new and previous day GRT limits for accuracy
 - Performing a daily turnover at approximately 1100 with the D1 Outage Coordinator using the appropriate Powerflows so that:
 - The D2 Outage Coordinator can assume the responsibilities of updating and communicating the DAY_MM_DD_XXXXMW_OSD1 Powerflow
 - The D1 Outage Coordinator can assume the responsibilities of updating the DAY_MM_DD_XXXXMW_OSD2 Powerflow and preparing the Powerflow cases for the next day GRT limits
 - Creating the preliminary GRT spreadsheet for the D2 day and populating all applicable limits and outage notes except for the DoubleC Limits
 - Assisting as needed when the Transmission Coordinator & Resource Analyst is unavailable or during heavy workloads
 - Turning over an upcoming transmission outage requests and providing the updated D1 Powerflow to the Forecaster and on-shift Operations Shift Supervisor
 - Turning over the DAY_MM_DD_XXXXMW_OSD1 Powerflow case and the next day Transmission Outages to the on-shift Security Operator
 - Reviewing each transmission outage that affects a Resource and verifying an outage request has been created in the ISO Outage Scheduling software, if required
 - Verifying Market Sensitive and MTE flags are set appropriately in each transmission outage request that is being reviewed
9. The D1 Outage Coordinator is responsible for:
- Verifying accuracy, updating and renaming the Powerflow received the previous day from the D2 Outage Coordinator to the DAY_MM_DD_XXXXMW_OSD1 Powerflow
 - The daily calculation of GRT limits using the DAY_MM_DD_XXXXMW_OSD1 Powerflow and providing the Forecaster, Market Operations Analyst and System Operators with the GRT limits on a Day-Ahead basis
 - Validating all information in the preliminary D2 GRT spreadsheet received from the D2 Outage Coordinator and incorporating the applicable DoubleC limits into the GRT spreadsheet


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- Attending the Day-Ahead Pre-Check Out meeting with the Operations Shift Supervisor, Forecaster and Market Operations Analyst for validating significant transmission outage request in the ISO Outage Scheduling software and providing the Market Administrators with GRT limits
- Notifying the Forecaster and Market Operations Analyst of subsequent changes to the GRT limits
- Verifying that the “ISO-NE Next Day Study Report” was sent to each adjacent RC
- Performing a daily turnover, at approximately 1100, with the D2 Outage Coordinator using the appropriate Powerflows so that:
 - The D2 Outage Coordinator can assume the responsibilities of updating and communicating the DAY_MM_DD_XXXXXMW_OSD1 Powerflow
 - The D1 Outage Coordinator can assume the responsibilities of updating the DAY_MM_DD_XXXXXMW_OSD2 Powerflow and preparing the Powerflow cases for the next day GRT limits
- Emailing the on-shift Operations Shift Supervisor when the preliminary GRT is completed
- Turning over the Powerflow cases used to develop the GRT limits to the on-shift Security Operator
- Reviewing each transmission outage that affects a Resource and verifying that an outage request has been created in the ISO Outage Scheduling software, if required
- Verifying Market Sensitive and MTE flags are set appropriately in each transmission outage request that is being reviewed

10. When requested by an Outage Coordinator or other ISO personnel, RTS is responsible for performing a complex study or advanced analysis of an outage request, including determining the adequacy of existing transmission limits and developing new limits based upon any complex study.

4. Controls

- ISO performance regarding timeliness of approving/denying Planned transmission outages is measured against the OP-3 requirement to approve/deny requests at least 24 hours prior to 0001 on the day the work is to begin and the Outage Coordination group goal to approve/deny requests at least 48 hours prior to 0001 on the day the work is to begin (this is more restrictive than the corporate metric).


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- The Manager, Transmission Outage Coordination will address issues and identifies corrective actions.
- Voice recorded phones are in place for the Control Room (Operations Shift Supervisor, System Operator, and Forecaster) and Outage Coordination group personnel.

NOTE

External Transfer limits posted on OASIS are required by FERC and NERC and are subject to audit.

- External Transfer limit postings are available on OASIS.

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5. Instructions

5.1 Processing Short Term Transmission Outage Requests

NOTE

The process for handling each Short Term transmission outage request is depicted in Attachment L - Short Term Outage Coordination Process.

Rules built into the ISO Outage Scheduling software require certain data fields to be populated to allow a request to be sent to ISO. Each transmission outage request is submitted through the ISO Outage Scheduling software or, as a backup method if the ISO Outage Scheduling software is inaccessible, via email/fax. Guidance on how to complete a Short Term Transmission Outage Request is contained in Attachment D - Best Practices for Studying and Completing Short Term Transmission Outage Requests (Confidential), OP-3 and M/LCC 7.

If an outage is overrun, select the “Overrun” button and change the Planned End Date Time.

The applicable LCC forwards each Short Term transmission outage request to ISO for approval unless the facility is listed as a Category B Facility and does **not** affect any Generator or Dispatchable Asset Related Demand (DARD) per OP-3 and M/LCC 7.


The applicable LCC notifies the Transmission Coordinator & Resource Analyst first and, if unavailable, a D3/D2/D1 Transmission Outage Coordinator or Control Room Security Operator, as applicable, when a transmission outage request is being emailed. This is to verify that each emailed outage request is entered into the ISO Outage Scheduling software in the correct sequence so that the proper order of request numbers are assigned by the ISO Outage Scheduling software.

NOTE

Whenever Master/Local Control Center No 2 - Abnormal Conditions Alert (M/LCC 2) is declared, the outage approval/denial process includes the maintenance, construction and test activities criteria contained in M/LCC 2.

Occasionally, a TO or Generator Owner (GO) will request an equipment and/or protective relaying outage that will directly and/or indirectly impact the reliability of a nuclear power generating facility and/or neighboring RCA/BAA. Any outage request that directly or indirectly impacts Nuclear Plant Interface Requirements (NPIRs) is

This NOTE is continued on the next page.

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communicated to the nuclear power plant affected in accordance with M/LCC 7 and Master/Local Control Center Procedure No. 1 - Nuclear Plant Transmission Operations (M/LCC 1).


The communication to the nuclear power plant should include information that is necessary for safe and reliable operation. It is an expectation that any outage request that directly or indirectly impacts the reliability of a neighboring RCA/BAA is communicated in accordance with M/LCC 7 and OP-3. The communication to the neighboring RC/BA should include information that is necessary for safe and reliable operation.

5.1.1 Perform Transmission Coordinator Tasks

1. The Transmission Coordinator (or, if unavailable, the D2 Transmission Outage Coordinator) verifies the following:
 - Any emailed outage request is received with the required information and within the time frames required in OP-3 prior to entering it into the ISO Outage Scheduling software. If the “Priority” of the request is **not** within required timeframes, the request will be denied and the applicable party will be requested to reapply
 - Any emailed outage application is verified to have the following completed or resolved and if resolution **cannot** be performed, the applicable party will be requested to reapply:
 - Outage request provides sufficient information describing the proposed transmission outage
 - Appropriate LCC approvals have been obtained and applicable notifications to neighboring RCs/BAs have been made
 - The emailed outage requests are entered into the ISO Outage Scheduling software in the order in which they were received
 - The email outage template is located in M/LCC 7, Attachment A-ISO Transmission Facility Outage Request Form (M/LCC 7A)
2. On a daily basis, the Transmission Coordinator & Resource Analyst shall perform the following:
 - A. Review the topology of each “Submitted” outage request in the ISO Outage Scheduling software scheduled to start 21 days for transmission and 14 days for Resource outages or less in the future including but **not** limited to the following:

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- Verify that the topology/devices are correctly entered in the ISO Outage Scheduling software data fields
 - Verify that the Start and End times are still valid
 - Verify that the Market Sensitive flag is set to “Yes” or “No”
 - Verify that the MTE flag is in the correct status based on the outage type
 - Verify that the supporting materials required by OP-3 are submitted
 - For an outage request submitted with the Status of “Emergency” or “Forced”, verify an explanation is included as to why it has been submitted with less than the required notice as described in OP-3
 - If no explanation is included, contact the applicable LCC and request the LCC to provide an explanation
 - Determine if overlapping outages impact both a Primary Path and Alternate Path in the New England Reliability Coordinator System Restoration Plan using M/LCC 7 – Attachment H – Temporary Restoration Path and contact LCC Outage Coordination. If the criteria cannot be met or overlap exists and cannot be resolved, contact the ISO-NE Chair of the System Restoration Working Group (SRWG) or designee.
 - Determine if ISO and LCC network model differences require any changes
 - Determine if an OOS element or commissioning of new equipment on a Resource requires a TOG. If a TOG is applicable during the outage, coordinate efforts with the LCC to ensure a transmission request is also submitted.
- B. Communicate each RAS/ACS outage or status change received from an LCC to the Operations Shift Supervisor, who shall verify the correct RAS/ACS status in the Control Room and in the ISO Outage Scheduling software.
3. When the Outage Coordination group is made aware of an accurate schedule for a new transmission or Resource facility to go commercial, (based on communications between the LCC and the Outage Coordination group), the Transmission Coordinator & Resource Analyst shall notify the following:
- Manager, Power System Model Management


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- Operations Shift Supervisor
- Forecasters
- Market Operations Analyst
- RTS
- Defined external entities in accordance with SOP-OUTSCH.0025.0010 – Update Outages Impacted by System Changes


NOTE

Monday through Friday, NYISO informs the Transmission Coordinator of anticipated system conditions that could cause the NY Central-East interface to become restrictive on New England single source contingencies above the Single Source Contingency Limit (SSCL). Currently, the lowest SSCL value is limited to 1,320 MW. Primarily this will allow ISO to inform any affected Resource in advance that the Resource "may" be asked to reduce to the SSCL during the times that NYISO identifies. This advance notification will allow any affected Resource to review any work the Resource is anticipating that could hinder their ability to quickly back down to the SSCL when directed to do so by the ISO Control Room System Operators. The Procedure To Protect for Loss of Single Source Contingency Guide may provide additional guidance. (This is found with the other Transmission Operating Guides in ODMS).

4. The Resource Analyst shall inform any applicable Resource when NYISO anticipates system conditions that could cause the NY Central-East interface to become restrictive on New England single source contingencies above the SSCL.
 - A. When informing an applicable Resource, the Resource Analyst shall include a brief description of the transmission outage(s) occurring in New York and that the outage(s) may reduce the maximum allowable ISO Source Contingency to as low as the SSCL, due to New York system reliability requirements.
 - B. During unavailability of the Resource Analyst, the Transmission Outage Coordinator shall enter the Resource notices in the ISO Outage Scheduling software Notifications section.
5. The Transmission Coordinator & Resource Analyst shall attempt to resolve any noted discrepancy with the applicable LCC and/or neighboring RC/BA.

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- If the discrepancy is resolved, the Outage Coordinator shall annotate in the “Short Term ISO Study Summary” data field that the submitted application has been reviewed and include the date of review.
 - If a discrepancy **cannot** be resolved, the Outage Coordinator shall deny the request and request the applicable parties to reapply.
6. The Transmission Coordinator & Resource Analyst shall perform an ISO Outage Scheduling software update with each applicable LCC and/or neighboring RC/BA at 0745, Monday through Friday, including a discussion of any current and pending transmission or Resource outage.
 - A. If any changes occurred to a “Submitted” Long Term Outage, the Outage Coordination group shall provide the information to the members of their group that process the Long Term Outages.
 7. During the course of the shift, if a transmission outage request requires a special study, the Transmission Coordinator & Resource Analyst shall notify RTS via email about the pending request in the ISO Outage Scheduling software.
 - A. The Transmission Coordinator shall place a note in the “Short Term ISO Study Summary” data field stating that a complex study has been requested.
 - B. RTS shall perform the applicable actions of SOP-OUTSCH.0050.0020 - Perform Complex Studies and return the study results to the Transmission Coordinator & Resource Analyst.
 - C. The Transmission Coordinator & Resource Analyst shall provide the complex study results to the D1/D2/D3 Outage Coordinators and update the ISO Outage Scheduling software.
 8. The Transmission Coordinator & Resource Analyst shall study each Short Term Transmission Outage Request as requested by the Managers, Outage Coordination using, but **not** limited to, Attachment D.
 9. Provide support for new Network Model releases by performing the following:
 - Perform any required Administrator Network Model Maintenance activity(s) in the ISO Outage Scheduling software and update of the BES listing.


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- Coordinate with Market Operations Analyst(s) to identify any topology outage request to be created for new equipment not yet in service.

10. The Transmission Coordinator & Resource Analyst shall support the performance of the duties of the D3 Outage Coordinator and the Generator outage process as needed.

5.1.2 Perform Intermediate Outage Coordinator Tasks

1. The Intermediate Outage Coordinator shall perform the following tasks:
 - A. When indicated by significant Generator Must Run requirements or heavy market congestion, perform economic studies in accordance with SOP-OUTSCH.0030.0065 - Short Term Outage Economic Analysis.
 - B. Coordinate with the applicable LCC, Line owner, GO and ISO Management to evaluate, and when necessary, to reposition or deny any transmission outage request with a congestion cost greater than \$200,000 per week in accordance with OP3 - Transmission Outage Scheduling.
 - C. Notify Monthly Markets group (in Market Analysis & Settlements; MonthlyMarketsGroup@iso-ne.com) of the results of economic studies that predict a shortfall in the congestion fund revenues to pay Financial Transmission Rights (FTR) obligations for an Operating Day.
 - D. Provide information and support to Market Operations Analysts in resolving issues related to outage requests, network model topology, interface limits and binding constraints.
 - E. As necessary, perform daily market simulations and analysis to identify outages causing heavy congestion.
 - F. As necessary, perform capacity analyses to support Resource and transmission outage coordination
 - G. As necessary, perform N-1-1, Outage Reliability Analyzer (ORA), Transfer Limit and other studies to facilitate planning and coordination of transmission and Resource outage requests.
 - H. Coordinate with Real-Time Market Support group to update contingency lists in Total Transfer Capability (TTC) Calculator as a result of new equipment in commercial service, network model

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releases and Real-Time issues as discovered by the ISO Operations staff.

- I. Provide support for new Network Model releases by performing the following:
 - Perform any required Administrator Network Model Maintenance activity(s) in the ISO Outage Scheduling software.
 - Coordinate with Market Operations Analyst(s) to identify any topology outage request to be created for new equipment not yet in service.
- J. When necessary, perform the duties of the Transmission Outage Coordinator.

5.1.3 Perform D3 Transmission Outage Coordinator Tasks


1. The D3 Transmission Outage Coordinator shall perform the following:

- A. From an all lines in Basecase, create a Powerflow labeled as Day_MM_DD_XXXXMW_OSD3 or greater.

NOTE

Attachment G - Savecase Directory Listing provides an example of the OUTSCH Savecase Directory.

- B. Keep the seven active OSD3 Powerflow cases and delete the other OSD3 cases and later to provide sufficient storage space in the OUTSCH Savecase Directory.
2. The D3 Transmission Outage Coordinator shall prepare and update Powerflow faceplate to expedite turnover and to assist in noting changes and assumptions made for when the Powerflow is turned over to the D2 Transmission Outage Coordinator.
3. The D3 Transmission Outage Coordinator shall populate the OSD3 Powerflow or greater with all Short Term transmission outage requests that are contained in the ISO Outage Scheduling software for the day being reviewed.
 - A. Evaluate each non-concurrent outage and verify that the most limiting outage is considered for inclusion in the Powerflow case.

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- B. Include expected load forecasts and Resource outages in the OSD3 Powerflow.

NOTE

Outage requests, that are to be included in the Day_MM_DD_XXXXXMW_OSD3 Powerflow or greater, include Interim Approved, Submitted, Study, Negotiated, Approved and Implemented Outages that occur on the day represented by the Powerflow.


Each Interim Approved Outage that is entering the Short Term Outage Coordination process is to be reviewed and evaluated as a Short Term Transmission Outage Request.

4. The D3 Transmission Outage Coordinator shall study each Short Term transmission outage request using, but **not** limited to, Attachment D.
5. If a transmission outage requires a special study the D3 Transmission Outage Coordinator shall notify RTS via email.
 - A. RTS shall perform SOP-OUTSCH.0050.0020 - Perform Complex Studies and provide the study results back to the D3 Transmission Outage Coordinator.
 - B. The D3 Transmission Outage Coordinator shall use the study results information to approve/deny the transmission outage.
6. If a Resource is required to be Must Run or restricted, the D3 Transmission Outage Coordinator shall notify the Resource Analyst to update the ISO Outage Scheduling software.

NOTE

Details for notifying the Transmission Coordinator & Resource Analyst or D3/D2 /D1 Transmission Outage Coordinator about any Must Run or constrained Resource resulting from a transmission outage request are found in Attachment D.

7. The D3 Transmission Outage Coordinator shall change the status of the “Submitted” request to “Study” for each outage request being studied.
8. Prior to 1630, the D3 Outage Coordinator shall assign the appropriate status “Approved”, “Denied”, or “Cancelled” to an outage that is three days or more in the future.

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9. The D3 Transmission Outage Coordinator shall report any discrepancy issue through the AMR process.

10. If the D3 Transmission Outage Coordinator determines that an outage that is three days in the future **cannot** be completed by the end of their shift, the D3 Transmission Outage Coordinator shall notify the Supervisor or Manager, Transmission Outage Coordination of the need to perform contingency planning.

11. When the D3 Transmission Outage Coordinator determines that a Resource may be significantly affected by reduced interface limits or local constraints, the D3 Outage Coordinator shall notify the Resource Analyst.

5.1.4 Perform
D2
Transmission
Outage
Coordinator
Tasks

NOTE

The D2 Outage Coordinator assists the Transmission Coordination & Resource Analyst needed.


1. At approximately 0630 the D2 Transmission Outage Coordinator shall perform the following:
 - A. Review Attachment B - Next Day Operating Plan Daily Check Out
 - B. Verify that the changes are made in the DAY_MM_DD_XXXXMW_OSD1 Powerflow.

2. The D2 Transmission Outage Coordinator shall perform the following:
 - A. Verify accuracy, update and rename the previously created Powerflow DAY_MM_DD_XXXXMW_OSD3 to the new designation of DAY_MM_DD_XXXXMW_OSD2.


NOTE

Attachment G provides an example of the OUTSCH Savecase Directory.

- B. To provide sufficient storage space in the OUTSCH Savecase Directory, keep seven active OSD2 Powerflow cases and delete the other OSD2 cases.

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3. The D2 Transmission Outage Coordinator shall revise the OSD2 Powerflow with updated information as follows:
 - Beginning at 0630 revise the Powerflow with expected outages
 - Throughout the shift, until turnover with the D1 Transmission Outage Coordinator occurs, update for the following:
 - “Denied” Outage requests
 - “Cancelled” Outage requests or cancelled Profile Outages requests
 - Emergency and/or Forced Outages and any revised times
 - Revised Resource outages
 - Revised load forecasts
 - Revised wind/solar data
 - Deny, cancel, or reposition any Short Term transmission outage request that was previously “Approved” if it is determined that reliability **cannot** be maintained and update the OSD2 Powerflow by 1100.
 - Report any software problem to the IT Help Desk and Manager, Transmission Outage Coordination
4. The D2 Transmission Outage Coordinator shall ensure that each Short Term transmission outage request that has a Outage Priority of “Forced” (**not** in the current day) is studied (either by the D2 or delegated to another Transmission Outage Coordinator) using, but **not** limited to, Attachment D.
5. If a transmission outage requires a special study, the D2 Transmission Outage Coordinator shall notify RTS about the pending application in the ISO Outage Scheduling software.
 - A. RTS shall perform SOP-OUTSCH.0050.0020 - Perform Complex Studies and return the results back to the Transmission Outage Coordinator.
 - B. The D2 Outage Coordinator shall use study results and select either “Approved” or “Denied” for the transmission outage.
6. If a Resource is required to be Must Run or be restricted, the D2 Transmission Outage Coordinator shall notify the Resource Analyst


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that an update to the ISO Outage Scheduling software may be required.


NOTE

Details of notifying the Transmission Coordinator & Resource Analyst or D1/D2/D3 Outage Coordinator about Must Run or constrained Resources resulting from a transmission outage request are found in Attachment D.

7. The D2 Transmission Outage Coordinator shall select either “Approved” or “Deny” Outages with a Priority of “Forced” (**not** the current day) prior to the turnover at 1100 with the D1 Transmission Outage Coordinator.
8. If the D2 Transmission Outage Coordinator determines that an outage with Outage Priority of “Forced” (**not** the current day), **cannot** be completed by the end of their shift, the D2 Outage Transmission Coordinator shall notify the Supervisor or Manager, Transmssion Outage Coordination of the need to perform contingency planning.
9. If it is determined by the end of the shift that the D2 Transmission Outage Coordinator **cannot** choose either “Approved” or “Denied” for an outage request 24 hours prior to the start date, the D2 Transmission Outage Coordinator shall notify the Supervisor or Manager, Transmssion Outage Coordination of the need to perform contingency planning.
10. The D2 Transmission Outage Coordinator shall perform Attachment F - Determining and Posting External Transfer Limits.
11. By 0830, the D2 Transmission Outage Coordinator shall post the forecasted External Transfer Limits to OASIS and the ISO public website in accordance with Attachment F.
12. The D2 Transmission Outage Coordinator shall provide the External Transfer Limits for the GRT spreadsheet to the D1 Transmission Outage Coordinator.
13. The D2 Transmission Outage Coordinator (or designee) shall attend the 0845 meeting and review the new and previous day GRT limits for accuracy.
14. The D2 Transmission Outage Coordinator shall create a preliminary GRT spreadsheet for the D2 day and populate/update the following information:

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- Stability Limits
 - External Transfer Limits
 - RMR Calculations
 - Resource Limitations
 - Annotations for any impactful outages
15. Daily at approximately 1100 the D2 Transmission Outage Coordinator shall perform a turnover with the D1 Outage Coordinator using the appropriate Powerflows so that:
- The D2 Transmission Outage Coordinator can assume the responsibilities of updating and communicating the DAY_MM_DD_XXXXXMW_OSD1 Powerflow
 - The D1 Transmission Outage Coordinator can assume the responsibilities of updating the DAY_MM_DD_XXXXXMW_OSD2 Powerflow and preparing the Powerflow cases for the next day GRT limits.
16. Through the remainder of the shift the D2 Transmission Outage Coordinator shall perform the following:
- A. Update the Powerflow case designated DAY_MM_DD_XXXXXMW_OSD1 with approved Short Term Transmission Outage Requests that are one day in the future
 - B. Deny outage requests as necessary
 - C. Update the Powerflow with expected load forecasts and generation
 - D. Verify all outage request attachments are current based on applicable dates
17. In preparation for hand off to the Security Operator and using the Powerflow case designated DAY_MM_DD_XXXXXMW_OSD1, the D2 Transmission Outage Coordinator shall perform a contingency analysis (CA) and resolve any issues.
18. Daily by 1300, the D2 Transmission Outage Coordinator shall meet with the on-shift Operations Shift Supervisor and Forecasters and provide a summary of changes made since the 0845 meeting in the ISO Outage Scheduling software and shall perform the following:

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- A. Communicate any constrained or Must Run Resource, specific outages and associated studies where problems were found
 - B. Review mutually exclusive outage requests.
19. During the 1300 meeting, the D2 Transmission Outage Coordinator shall provide the Transmission Coordinator & Resource Analyst with any changes to the CA for the upcoming day to assist in determining Reliability Must Run (RMR) Resource in accordance with SOP-RTMKTS.0050.0005 - Determine Reliability Commitment for Real-Time.
20. Daily by 1330, the D2 Transmission Outage Coordinator shall complete Attachment B - Next Day Operating Plan Daily Check Out and verify the following has been performed :
- A. Communication of the CA for the upcoming day
 - B. Certification of the accuracy and understanding of approved transmission outage requests.
 - C. Turnover the Category B Facilities found in Attachment B of M/LCC 7 for the upcoming day
 - D. Verify signed form is located in the proper folder
21. The D2 Transmission Outage Coordinator shall report any discrepancy issue through the AMR process.


5.1.5 Perform D1 Transmission Outage Coordinator Tasks

- 1. Contact the on-shift Operations Shift Supervisor to determine changes to any transmission outage that occurred overnight, or if there were any issues with the OSD1 case or the GRT.
- 2. By 0700 the D1 Transmission Outage Coordinator shall verify the accuracy, update and renames for the previously created Powerflow DAY_MM_DD_XXXXXMW_OSD2 to the new designation of DAY_MM_DD_XXXXXMW_OSD1.

NOTE

Attachment G provides an example of the OUTSCH Savecase Directory.

- A. To provide sufficient storage space in the OUTSCH Savecase Directory, the D1 Outage Coordinator shall retain seven active OSD1 Powerflow cases and delete the other OSD1 cases


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3. By 0800, the D1 Transmission Outage Coordinator shall retrieve the revised next day forecasted loads from the Forecaster.
4. Using the Powerflow case designated DAY_MM_DD_XXXXXMW_OSD1, the D1 Transmission Outage Coordinator shall update and revise the necessary Powerflow case to develop the next day 2nd Contingency limits and any additional cases for the calculation of interface limits.
5. To prepare the base cases for 2nd CA and additional base cases, the D1 Transmission Outage Coordinator shall verify the accuracy of and update and rename the previously created Powerflow DAY_MM_DD_XXXXXMW_OSD1 to the new designations of AA_DAY_MM_DD_INITIALS (D1 persons).

NOTE

Attachment G provides an example of the OUTSCH Savecase Directory.

6. To provide sufficient storage space in the OUTSCH Savecase Directory, the D1 Transmission Outage Coordinator shall retain the last three days of Powerflow cases used to develop 2nd contingency limits and delete the other cases
7. The D1 Transmission Outage Coordinator shall perform the following:
 - A. Update the Powerflow case designated DAY_MM_DD_XXXXXMW_OSD1 with approved Short Term transmission outage requests that are one day in the future,
 - B. Deny outage requests as necessary
 - C. Update the Powerflow with expected load forecasts and generation.
8. The D1 Transmission Outage Coordinator shall perform Attachment E - Determining GRT Limits and create the GRT Limits for the next day.
9. When the External Transfer Limits are received from the D2 Transmission Outage Coordinator, the D1 Outage Coordinator shall enter the limits into the GRT.
10. The D1 Transmission Outage Coordinator shall review and verify the External Transfer Limits correspond with the limits of the GRT.


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11. Prior to the Day-Ahead Pre-Check Out meeting with Market Operations Analyst, the D1 Transmission Outage Coordinator shall review the outage requests for the next day and prepare a list of significant outages to be reviewed at the meeting.
12. Prior to the Day-Ahead Pre-Check Out meeting with Market Operations Analyst, the D1 Transmission Outage Coordinator shall perform the following:
 - A. Import update Fast Start Resource data into the GRT spreadsheet
 - B. Post preliminary GRT Limits to the Real-Time Samba (RTSMB) Server
 - C. Provide a copy of the GRT to the D2 Transmission Outage Coordinator for review
13. Following the review of transmission outages for the next day, the D1 Transmission Outage Coordinator shall report any errors found that pertain to the transmission request or the ISO Outage Scheduling software through the AMR process.
14. During the 0845 Day-Ahead Pre-Check Out meeting with Market Operations Analyst the D1 Transmission Outage Coordinator shall perform a formal review with the Market Operations Analyst using Attachment A - Day-Ahead Pre-Check Out Template to certify the accuracy and understanding of approved transmission outage requests.
15. If necessary, the D1 Transmission Outage Coordinator shall post revised GRT limits to the RTSMB Server in accordance with Attachment H - GRT Limit Time Table for the Day-Ahead Market.

NOTE

Attachment I - GRT Limit Variations Over Time, provides information on the basis for which GRT limits are derived and why they may change from when initially determined.

16. Daily, at approximately 1100, the D1 Transmission Outage Coordinator shall perform a turnover with the D2 Transmission Outage Coordinator using the appropriate Powerflows and verify that:
 - The D2 Transmission Outage Coordinator is prepared to assume the responsibilities of updating and communicating the DAY_MM_DD_XXXXMW_OSD1 Powerflow

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- The D1 Transmission Outage Coordinator is prepared to assume the responsibilities of updating the DAY_MM_DD_XXXXMW_OSD2 Powerflow and preparing the Powerflow cases for the next day GRT limits

NOTE


The only items that should be updated in the GRT between the final 10:00 export for the DA and the 1300 export for the Forecaster are External Interface Limits

17. The D1 Transmission Outage Coordinator shall update the GRT as required on the RTSMB Server until the 1300 meeting with the on-shift Operations Shift Supervisor.
18. The D1 Transmission Outage Coordinator shall revise the OSD2 Powerflow with updated information throughout the remainder of the shift including the following:
 - “Denied” Outage requests
 - “Cancelled” Outage requests or cancelled Profile Outage requests
 - Emergency and/or Forced Outages
 - Outages that are Overrun
 - Revised Resources outages
 - Revised transmission outage times
 - Revised load forecasts

NOTE


The expected GRT limits are used to assist in determining a Reliability Must Run (RMR) Generator, in accordance with SOP-RTMKTS.0050.0005 - Determine Reliability Commitment for Real-Time.

19. At 1300, the D1 Transmission Outage Coordinator shall provide the on-shift Operations Shift Supervisor with the expected GRT limits and appropriate Powerflow base cases used for determining 2nd contingency limits for the upcoming day.
20. The D1 Transmission Outage Coordinator shall email the GRT spreadsheet (containing the latest revisions) to interested parties

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using the Forecasted 1300 Export function built into the GRT and place the GRT spreadsheet on the RTSMB Server.

21. Daily, at 1300, the D1 Transmission Outage Coordinator shall complete Attachment B - Next Day Operating Plan Daily Check Out, with the D2 Outage Coordinator and on-shift Forecaster and Operations Shift Supervisor and perform the following:
 - A. Communicate any constrained or Must Run Resources, specific outages and associated studies where problems were found
 - B. Review mutually exclusive outage requests

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5.2 Outage Coordination Group BCC Activities

1. When required to staff the Windsor Campus (Backup Control Center (BCC)) due to either an evacuation of the Holyoke Campus (Main Control Center (MCC)) or for testing of the BCC, each Outage Coordinator shall refer to Attachment M - BCC Activities.
2. If any issues are identified, each Outage Coordinator shall fill out and return Attachment M - BCC Issues List to the Managers of Outage Coordination.
3. When operation at the BCC is **no** longer required, the Outage Coordinator shall refer to Attachment M - BCC Activities and follow further guidance from the Managers of Outage Coordination.

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5.3 Short Term Outage Coordination Software Testing


1. When notified of changes to, or new versions of, GRT sheet, CROW Add-ins, or PROBE or TARA, or TTC Calculator or TTCU, the Outage Coordinator shall perform business product testing using Attachment N - Transmission Outage Coordination Software Testing.
2. When migrating to Production servers, the Transmission Outage Coordinator shall update the "\\rtsmb\oasis\Outage Coordination\Common\Outage Coordination Testing folder with latest revision of software.

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6. Performance Measures

This procedure is considered to be properly followed as evidenced by the following:

- Goal for Corporate performance in “NERC Operations Compliance”: Control Performance Standard (CPS1) and Disturbance Control Standards (DCS) compliance is met
- The following are being tracked as leading indicators and responded to:
 - Topology / device errors which are incorrectly entered in the ISO Outage Scheduling software
 - Emergency and Forced Outage requests without explanation for being submitted less than 120 hours
 - Emergency and Forced Outage requests entered as Planned Outages
 - The number of outage requests **not** studied and approved 48 hours prior to 0001 of the day of the outage and the reason why
 - The number of outage requests **not** studied and approved 24 hours prior to 0001 of the day of the outage and the reason why
 - Changes were required resulting from ISO and LCC network model differences
 - Deadlines were missed as depicted in Attachment C - Transmission Outage Coordination Process Overview, and reasons why

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7. References

NERC Reliability Standard TOP-003 - Operational Reliability Data

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 Operating Procedure No. 2 - Maintenance of Communications, Computers, Metering, and Computer Support Equipment (OP-2)

ISO New England Operating Procedure No. 2 - Maintenance of Communications, Computers, Metering and Computer Support Equipment Appendix D - OP-2 Approved Scheduled Maintenance Report (OP-2D)

ISO New England Operating Procedure No. 3 - Transmission Outage Scheduling (OP-3)

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

ISO New England Operating Procedure No. 5 - Resource Maintenance and Outage Scheduling (OP-5)

ISO New England Operating Procedure No. 7 - Action in an Emergency (OP-7)

ISO New England Operating Procedure No. 19 - Transmission Operations (OP-19)

Master/Local Control Center No. 1 - Nuclear Plant Transmission Operations (M/LCC 1)

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

Master/Local Control Center No. 4 – Emergency Load Reduction Plans for Mitigating IROL Violations (M/LCC 4)

Master/Local Control Center No. 7 - Processing Outage Applications (M/LCC 7)

Master/Local Control Center No. 15 – System Operating Limits Methodology (M/LCC 15)


Master/Local Control Center No. 18 - System Restoration Plan Attachment O - Designated Blackstart Resources Confidential (M/LCC 18 O)

TOG - Procedure to Protect for Loss of Single Source Contingency Guide

Area TOGs

SOP-OUTSCH.0025.0010 - Update Outages Impacted by System Changes

SOP-OUTSCH.0030.0010 - Evaluate Resource Outage Requests

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SOP-OUTSCH.0030.0065 - Short Term Outage Economic Analysis

SOP- OUTSCH.0040.0010 - Create Demand Forecast

SOP-OUTSCH.0040.0020 - Create Seven-Day Capacity Margin Forecast

SOP-OUTSCH.0050.0010 - Determine Study Requirements


SOP-OUTSCH.0050.0020 - Perform Complex Studies

SOP-RTMKTS.0050.0005 - Determine Reliability Commitment for Real-Time

SOP-RTMKTS.0050.0010 - Perform Reserve Adequacy Assessment

Powerflow Users Guide

Contingency Analysis Users Guide

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8. Revision History

Rev. No.	Date	Reason	Contact
--	04/13/17	For previous revision history, refer to Rev 10 available through Ask ISO;	Norm Sproehle
---	4/23/25	For previous revision history refer to Rev 30.1. Available in ODMS or from Contact.	JD Dawson
31	4/23/25	Updated terminology from disapprove to deny to match verbiage in CROW; CAPA replaced with AMR; Updated roles and responsibilities throughout to match current re-organization structure; Clarified Market Sensitive definition; Added SEMA South Boston interface process;	Maya Ault
31.1	6/25/25	Updated second contingency to exclude bus contingency (Note in Att E), aligning with OP19J changes; Minor administrative edit.	Maya Ault

9. Attachments

Attachment A - Day-Ahead Pre-Check-Out Template (Confidential)

Attachment B - Next Day Operating Plan Daily Check-Out (Confidential)

Attachment C - Outage Coordination Process Overview

Attachment D - Best Practices for Studying and Completing Short Term Transmission Outage Requests (Confidential)

Attachment E - Determining GRT Limits (Confidential)

Attachment F - Determining and Posting External Transfer Limits (Confidential)

Attachment G - Savecase Directory Listing (Example)

Attachment H - GRT Limit Time Table for the Day-Ahead Market

Attachment I - GRT Limit Variations Over Time


Attachment J – Seasonal Priority Configuration

Attachment K – Energy Management System (EMS) Model Release


Attachment L - Short Term Outage Coordination Process

Attachment M - BCC Activities


Attachment N - Short Term Outage Coordination Software Testing

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Attachment O - Requirements for Requesting RTS Guidance for Overlapping Outages with Guides

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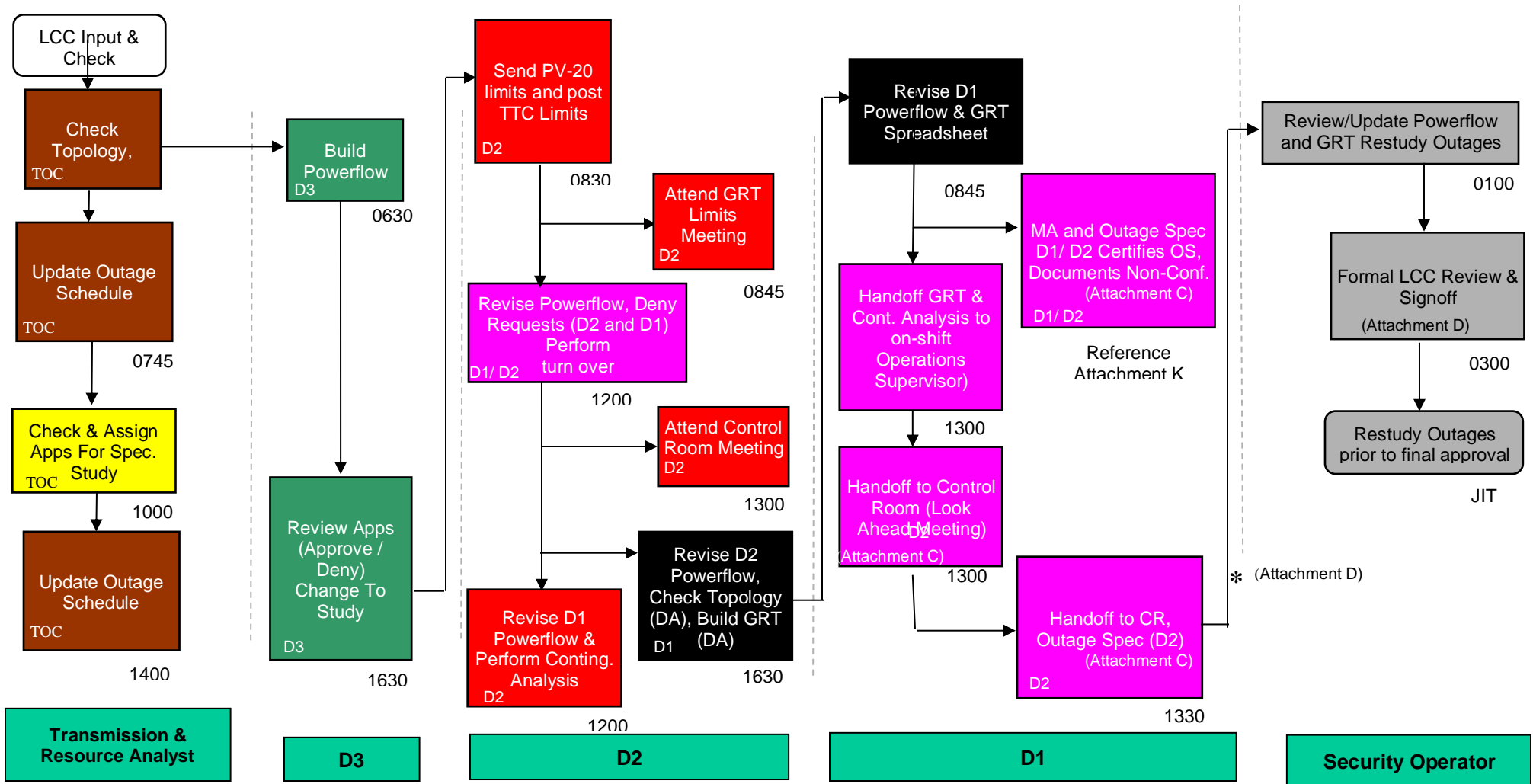
Attachment A - Day-Ahead Pre-Check-Out Template (Confidential)


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Attachment B - Next Day Operating Plan Daily Check Out (Confidential)


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Attachment C – Outage Coordination Process Overview




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Attachment D - Best Practices for Studying and Completing Short Term Transmission Outage Requests (Confidential)


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Attachment E - Determining GRT Limits (Confidential)

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	Procedure Owner: Maya Ault	Effective Date: June 25, 2025
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Attachment F - Determining and Posting External Transfer Limits

(Confidential)

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Attachment G - Savecase Directory Listing (Example)

AA_MON_03_19_XXX
AA_SAT_03_17_XXX
AA_SUN_03_18_XXX
FRI_03_16_12700MW_OSD3
FRI_03_16_13700MW_OSD1
FRI_03_16_13700MW_OSD2
MON_03_19_12000MW_OSD3
MON_03_19_12200MW_OSD2
MON_03_19_13200MW_OSD1
SAT_03_17_14600MW_OSD3
SAT_03_17_14800MW_OSD1
SAT_03_17_14800MW_OSD2
SUN_03_18_13000MW_OSD2
SUN_03_18_13500MW_OSD1
SUN_03_18_13500MW_OSD3
THU_03_15_16700MW_OSD1
THU_03_15_16700MW_OSD2
THU_03_15_16780MW_OSD3
TUE_03_13_12500MW_OSD1
TUE_03_13_12500MW_OSD3
TUE_03_13_12500MW_OSD3
WED_03_14_14000MW_OSD1
WED_03_14_14000MW_OSD2
WED_03_14_14000MW_OSD3

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Attachment H - GRT Limit Time Table for the Day-Ahead Market

Time Table during Normal Operations

Prior to 0845 - Post a preliminary GRT sheet to RTSMB Server


0845 - Daily Meeting between Hourly Market Operations, Control Room, and Transmission Outage Coordination groups. Review and discuss expected outages and limits. If one of the three departments involved **cannot** meet at this time, they must provide notification including a verbal explanation.

1000 - Hard Deadline - End consideration of transmission topology changes for the purpose of the Day-Ahead Market (DAM), upload outages from the ISO Outage Scheduling software. If **no** further changes are required due to changes in outage assumptions or discrepancies found, the GRT may be considered final.

1000 - Final GRT is expected at this time. If GRT is **not** yet final, reason must be documented on the GRT Spreadsheet & Meeting Tracking Form. The critical timeframe that will impact this delivery are influencing changes in transmission assumptions between 0700 and 1000 or software/hardware issues between 0600 and 1000. Supervision will review and track these occurrences, as appropriate AMR may be submitted.

1030 - If GRT is **not** yet final, late matrix will be triggered and reported through the COO NEPOOL Participants Committee Report. Reason must be documented on the GRT Spreadsheet & Meeting Tracking Form. Supervision will review and track these occurrences, as appropriate AMR may be submitted. Final GRT must be delivered ASAP.

1330 - Deadline for posting DAM Results.


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Attachment I - GRT Limit Variations Over Time

Due 0845 Day-Ahead	Due 1330 Day-Ahead	Due 0000 Operating Day	Current Operating Day
GRT Limits based on: <ul style="list-style-type: none"> • Simulation based on: <ul style="list-style-type: none"> ○ Planned transmission topology as of 0845 Day-Ahead ○ Planned Generation Outages as of 0845 Day-Ahead ○ Assumed online generation as of 0845 Day-Ahead ○ Forecasted load as of 0845 Day-Ahead ○ Forecasted area load percentages 	Day-Ahead Schedule and LMPs are based on: <ul style="list-style-type: none"> • Day-Ahead GRT Limits • Day-Ahead Bid in Load • Virtual Increment Offers • Virtual Decrement Load • Internal Transactions • External Transactions 	Forecast Current Operating Plan based on: <ul style="list-style-type: none"> • Day-Ahead Schedule and LMPs • Gen Re-Offers • Forecasted Load • Resource Redesignations 	Real-Time Operations based on: <ul style="list-style-type: none"> • RT load • RT Net • RT Topology • RT Gen Availability and Commitment • Double C RT Limits • RT area load percentages
GRT Limits are imported into Day-Ahead Case	Day-Ahead Schedule and LMPs are the start of the Current Operating Plan	Current Operating Plan is basis of the RT Resource Commitment	RT limits may have little correlation to GRT limits

Major Contributors to Difference in Limits from GRT to Real-Time:

1. 15 hours of time lag between GRT limits handoff and Current Operating Day.
2. Day-Ahead Increment Offers and Decrement Loads, which do **not** exist in GRT limits or RT limits.
3. Day-Ahead using Bid-In load vs. the use of Forecasted load by GRT, and RT load by Control Room.
4. GRT limit analysis is a peak-hour, Day-Ahead analysis. RT limits are based on RT loads and RT Net State Estimator.

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Attachment J - Season Priority Configurations

- 1) Determine the limit set that meets the condition to be studied
 - a. Month of April (New England has switched to summer limits, NY is still in winter):

Limit Set ID	Priority
WINTER	3
SUMMER	2
NYSUMMER	4
BSTN-HE-ON	5
APRIL	1

- b. Summer limits, Boston Circ pumps off (May 1 – Oct 31):


Limit Set ID	Priority
WINTER	5
SUMMER	1
NYSUMMER	2
BSTN-HE-ON	3
APRIL	4

- c. Summer limits, Boston circ pumps on (dates determined by NSTAR each summer):

Limit Set ID	Priority
WINTER	5
SUMMER	2
NYSUMMER	3
BSTN-HE-ON	1
APRIL	4

- d. Winter (November 1 – March 31):

Limit Set ID	Priority
WINTER	1
SUMMER	2
NYSUMMER	3
BSTN-HE-ON	4
APRIL	5


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- 1) Select LIM in the powerflow tab
- 2) Select Copy Branch Limit
- 3) Set your limit priorities to the values shown above
- 4) Select the Copy Branch Limit button
- 5) Select Yes to confirm the action

Background

The basecase models that are created by the Power System Modeling Management group that are labeled with seasons uses the following dates to mimic the season's load profile:


Season	Dates
Spring	02 March – 01 June
Summer	02 June – 01 September
Fall	02 September – 30 November
Winter	01 December – 01 March

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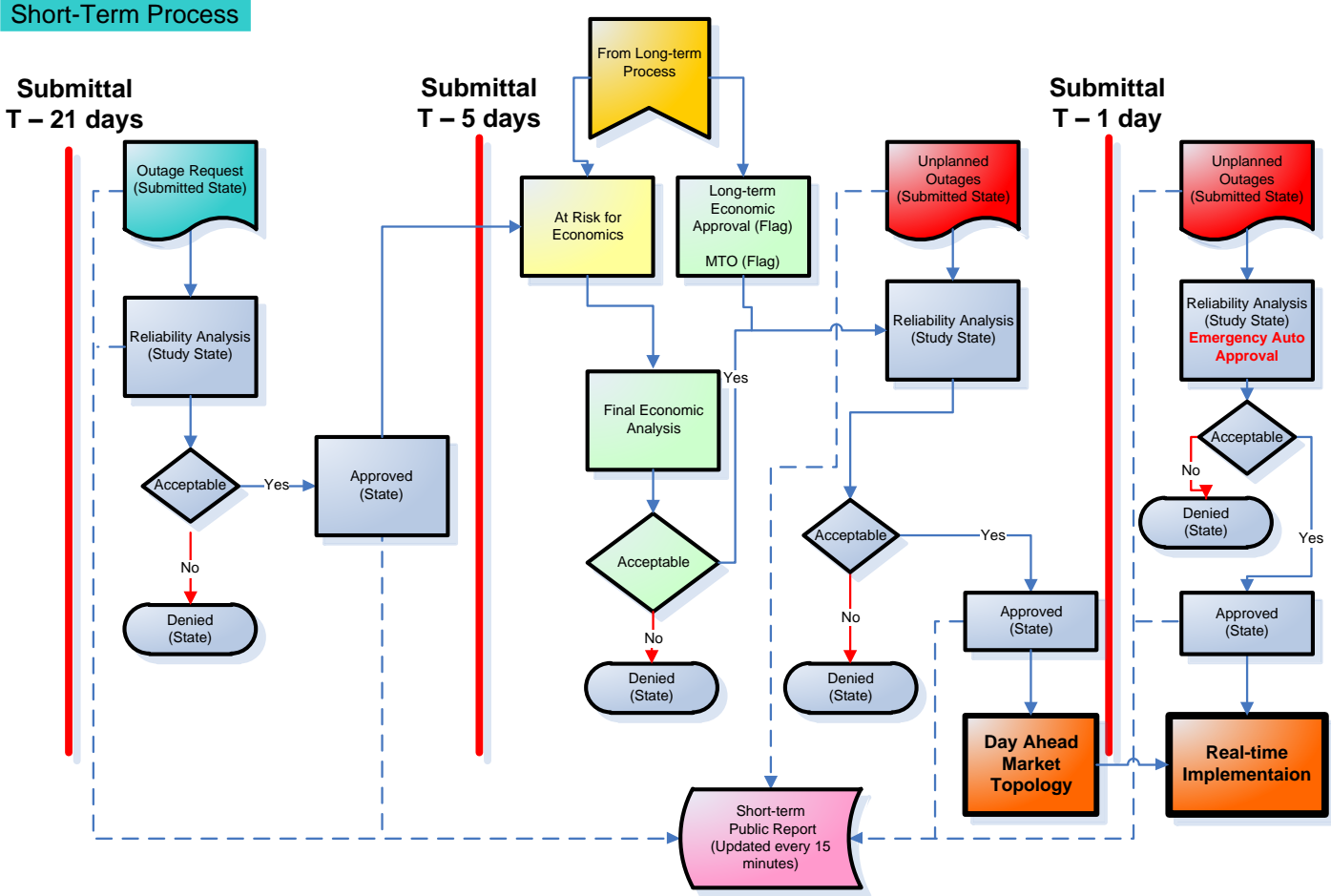
Attachment K - Energy Management System (EMS) Model Release


Every time a new EMS model is released, the Powerflow application is returned to certain default settings that need to be adjusted on each individual clone to reflect the current users' practices. Each release will have a designated release number, this will be annotated as XXX. To update clone, perform the following:

- 1) Stop the process
- 2) Retrieve the following from the Case Directory:
 - a. OPTIONS: CONTROL_ROOM_GENREF
 - b. ILC: EMS_VERXXX
 - c. RASMOM: EMS_VERXXX
 - d. STCA: EMS_VERXXX
 - e. ISORR: EMS_VERXXX
- 3) Adjust ILC devices as necessary in the Related Devices Display
- 4) Ensure that STCA is retrieving the correct family, and validate that:
 - a. Copy Clone of Database: NETMOM
 - b. From Application: PWRFLOW
 - c. Of Family: EMS Username
 - d. "Enable MLCC15 Monitoring" is checked in MLCC15H kV Summary tab

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Attachment L - Short Term Outage Coordination Process




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Attachment M - BCC or Remote Activities

A. Working from the Back-up Control Center (BCC) or Remotely

1. If required, upon arriving at the BCC, refer to ISO-NE Business Continuity Plan Section 3, Chapter 5 “OSS/Transmission Outage Coordination and Transmission Operations Planning Business Recovery Plan.”
2. Login to the Outage Coordination server, if needed: **RSDPTOC1**.
 - a. Domain Account: iso-ne\your_name
 - b. Domain Password: individual Active Directory password
3. Check the following tools:
 - a. CROW
 - b. STUDY EMS
 - a. Powerflow
 - b. STCA
 - c. RTNET
 - d. SCADA
 - e. ILC
 - f. GRT
 - c. REX2

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- d. TTC Calculator
- e. ISO Intranet
- f. Opralog
- g. ODMS – Procedures and Transmission Operating Guides

4. Enter any discrepancies by submitting a Service Desk ticket and share it with Manager, Transmission Outage Coordination

NOTE

If CROW or OP2 programs **cannot** be run, or an LCC/GO **cannot** access CROW from client software or OP-2 email, instruct the applicable LCC/GO to submit outages by fax or by phone. Manually fill out the OP-2 Appendix C for equipment outages, OP-5 Appendix B for Generator outages and OP-2 Appendix D for OP-2 communications equipment outages.

5. Conduct reliability and interface limit studies and set TTCs per Attachment - E Determining GRT limits and Attachment - F Determining and Posting External Transfer Limits
6. Coordinate with Market Operations Analyst to provide GRT interface limits as needed
7. Coordinate Resource outages per OP-5 - Resource Maintenance and Outage Scheduling

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Attachment N - Short Term Outage Coordination Software Testing

A. GRT sheet testing

1. Open GRT sheet to be tested (called “Updating GRT”) located at:
 \\rtsmb\GRT_rw\Testing
2. Refer to update information from emails, etc., or review update notes on “Release Notes” tab.
3. Create a new testing record in “STOG Software Testing” database.
4. Enter a test plan with enough steps to fully test all changes.
5. Test each individual line item in the latest entry in the Release Notes tab
6. Run all functions and test all buttons and check that solution makes sense
7. Indicate pass/fail on testing record in “STOG Software Testing” database.
8. If testing fails, contact the Operations Analysis & Tools group for resolution. Retest when deficiency is corrected and new version is made available.

B. TARA ORA / N-1-1 testing

1. Download latest desired TARA files from www.powerGEM.com FTP site to the “TARAENFINT1” server.
2. Refer to the Release Notes accompanying the release.
3. Create a new testing record in “STOG Software Testing” database.
4. Enter a test plan with enough steps to fully test all changes.
5. Test each individual change.
6. Perform an overall Outage Reliability Analysis (ORA) and N-1-1 study with the same inputs as a previous version study and identify bugs that might have been introduced with the new revision.
7. If this is Business Product testing required by IT, document test results on the “IT Product Test Template” otherwise, document test results on the “Outage Coordination Software Testing Template” and attach to the testing record.
8. Indicate pass/fail on testing record in “STOG Software Testing” database.

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9. If testing fails, notify Day-Ahead & Related Markets Applications Support group and the PowerGEM Corporation for resolution. Retest when new corrected version is available.
10. If necessary, update Change Management SIR (upload IT Product Test document) and press the “Pass” pushbutton and notify Day-Ahead & Related Markets Applications Support group.

C. PROBE testing


1. Download latest desired PROBE files from www.powerGEM.com FTP site to the “TARAENFINT1” server.
2. Refer to the Release Notes accompanying the release.
3. Create a new testing record in “STOG Software Testing” database.
4. Enter a test plan with enough steps to fully test all changes.
5. Test each individual change.
6. Perform an overall PROBE look-ahead study with the same inputs as a previous version study and identify bugs that might have been introduced with the new revision.
7. If this is Business Product testing required by IT, document test results on the “IT Product Test Template” otherwise, document test results on the “Outage Coordination Software Testing Template” and attach to the testing record.
8. Indicate pass/fail on testing record in “STOG Software Testing” database.
9. If testing fails, notify the Day-Ahead & Related Markets Applications Support Group and the PowerGEM Corporation for resolution. Retest when new corrected version is made available.
10. If necessary, update Change Management SIR (upload IT Product Test Document) and press the “Pass” pushbutton and notify Day-Ahead & Related Markets Applications Support group.

D. TTC Calculator testing

1. When a change is made to the TTC Calculator - Integration (e.g., DAL ratings, new or removed contingency records, etc.) create a new testing record in “STOG Software Testing” database.

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2. Perform a TTC calculator - integration test run using a model file from production directory \\RTSMB\PowerWorld\Exports and check for evidence of the change (not all changes will be evident - e.g., new DAL ratings for lines that don't show up as limiting elements, etc.)
3. Check all solutions against a run using the Production version of TTC Calculator and the same model file. Determine any differences and resolve.
4. Indicate pass/fail on testing record in "STOG Software Testing" database.
5. If testing fails, contact the Principal Transmission & Generation Coordinator, Outage Coordination, for resolution. Retest when new version is made available.
6. Notify Real-Time Market Applications group to migrate TTC Calculator changes to Production.

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Attachment O - Requirements for Requesting RTS Guidance for Overlapping Outages with Guides

Requirements for requesting RTS guidance for overlapping outages with guides:

For All Outages with Overlapping Guides based on the Outage Topology Documented in CROW (applies to IROL and SOL Interfaces):


- Transmission Outage Coordination group will request RTS Guidance to clarify what limits should be used during the overlap

Requirements for requesting RTS guidance for line outages overlapping with associated terminal breakers with guides:

- During switching requiring less than 30 minutes:
 - For IROL Interfaces: Transmission Outage Coordination will request RTS Guidance to clarify what limits should be used during the switching configuration
 - For SOL Interfaces: Transmission Outage Coordination should use the lowest of the limits from all overlapping guides for each impacted interface.
- During switching or overlapping outages with a duration greater than 30 minutes (applies to IROL and SOL interfaces):
 - A separate CROW application is required to document the switching topology
 - Transmission Outage Coordination will request RTS Guidance to clarify what limits should be used during the switching configuration

NOTE

Many, but not all, Line-Out Guides are written assuming that the line is isolated by disconnects with the associated terminal breakers closed. If a line is out of service and isolated by its terminal breakers, RTS guidance may be needed per the above guidelines if the line out guide was generated with the terminal breaker closed.

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Guidance for Managing CROW Attachments related to RTS Guidance:

When RTS Guidance is provided for overlapping outages, that guidance should **only** be attached to the outage causing the more restrictive limit (e.g. if outage A begins on 10/1, and overlapping outage B begins on 10/3 with lower limits, the guidance should only be attached to Outage B; If Outage C then begins on 10/4 and further reduces limits, then the associated guidance for overlap of Outages A, B, and C should only be attached to Outage C).

- ❑ Ensure that only current and **relevant** documentation is attached to the CROW application, which includes ensuring that any outdated or contradictory guidance is removed
- ❑ Rename the Attachment as needed to correspond to the contents of the attachment
 - Alternatively, add a description in the "Title" field that allows the user to easily identify what is in the attachment.

When Requesting Guidance from RTS:

- ❑ When the Short Term group requests information from the Real Time group/on-call engineer, they will state the time and date the special study is needed by, vice stating "close of business" in an email
- ❑ The Real-Time group will respond to all requests from the Short-Term with an email including the requested information
- ❑ All responses from the Real-Time group will be sent to the Short-Term group by 2 pm on date needed by, to ensure that the application can be processed in a timely manner
- ❑ The on-call engineer will call the Short-Term group-when a response (be it an email, temp guide or a guidance) is sent on the weekend or holidays during business hours (7 am to 4 pm)
 - On weekends, holidays or after 4 pm on a weekday, if guidance has been requested, call the on-call engineer
- ❑ If the on-call engineer cannot be contacted, call the Manager, Real-Time Studies
- ❑ If metric is approaching the 48-hour time frame and a response to guidance has not been sent to the Short-Term group, contact the Manager, Transmission Outage Coordination by 3pm on date needed by

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- The on-call engineer will confirm receipt of email, and will be contacted by phone by the Transmission Outage Coordinator if a response was not sent within the hour