	CROP.10002 Implement Capacity Remedial Actions	
©2024	Approved By: Director, Operations	Effective Date: 03/25/2024
Rev # 29	Procedure Owner: Manager, Control Room Operations	Valid Through: 03/25/2025

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## References

1. M/LCC 13 - ISO and LCC Communication Practices
2. M/LCC 2 - Abnormal Conditions Alert
3. OP 19 - Transmission Operations
4. OP 4 - Action During a Capacity Deficiency
5. OP 7 - Action In An Emergency
6. OP 8 - Operating Reserve and Regulation
7. CROP.10001 Load Shed
8. CROP.25001 Posturing
9. CROP.25011 Implement Operations During Abnormal Conditions
10. CROP.31001 Scheduling External Transactions
11. CROP.31002 Curtailing External Transactions
12. CROP.34010 Transmission Limits
13. CROP.50001 Reporting Procedure

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## Procedure Background

The Senior System Operator reviews the Capacity Analysis to provide an accounting of reserve amounts at the following times:

- When preparing the Morning Report.
- Upon issuance of a Current Operating Plan (COP) update.
- When there is a change in generation requirements as a result of:
  - An increase in forecasted load
  - Generator outages and/or reductions
  - Change in expected external transaction deliveries

The Loader Operator is expected to be continuously monitoring and aware of the Ten-Minute and Total System Reserve requirements and the resources being counted to meet these requirements. This should be done by frequently reviewing the EMS Reserve Monitor and any provided Situational Awareness displays.

System Operators should evaluate the current ACE and its impact on the status of reserves.

Reserve Down flags will affect reserve amounts calculated.


When reserve capacity is insufficient for a Reserve Zone or a reserve price violation for a Reserve Zone occurs, the UDS will no longer continue to co-optimize dispatch for energy and reserves and will only dispatch for energy. Manual action such as manually starting additional resources may be required.

If any of the following conditions exist or are anticipated, the Operations Shift Supervisor considers implementing OP-4 actions:

- Ten or Thirty-minute reserve requirements can no longer be maintained after all NYN and RT Only exports have been curtailed, and available import transactions have been purchased.
- Capacity Analysis indicates that the existing resource capacity or anticipated capacity is insufficient to meet the anticipated load plus 10 and 30 minute operating reserve requirement
- Implementation of OP-7 is imminent, but load shedding may be avoided or reduced in magnitude by application of OP-4
- Transmission facilities into a sub-area of ISO New England are loaded beyond established transfer limits
- Transmission voltages, reactive reserves, or both are low (see OP-12)
- It is **NOT** possible to provide contingency protection in accordance with OP-19
- Another NPCC RCA/BAA, or a remote RCA/BAA, is experiencing a capacity deficiency and has requested assistance from ISO, which if provided, reduces the actual reserve below the reserve requirements
- LCC Operator declares OP-4 for their local area
- Any other serious threat to the integrity of the BES for which ISO determines OP-4 actions could mitigate the impact of the threat

Due to restrictions placed on New York Tie Lines by the New York State Reliability Council, these lines are **NOT** allowed to be operated beyond the LTE limit for normal transfers. When the ISONE system is experiencing a capacity deficiency, permission to utilize the STE Limits on these facilities will be requested from the NYISO, for the purpose of increasing transfer capability.

New England will **NOT** count on SAR/MRA from New Brunswick above the current New Brunswick – New England Interface limit. This includes when the magnitude of the New Brunswick Load Loss contingency is limiting the New Brunswick – New England Interface.

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### Capacity Scarcity Condition

A Capacity Scarcity Condition (CSC) will be triggered by the approval of any ONE UDS or CDSPD case that is violating any one or more of the reserve constraints identified below for (1) five minute interval.

- System Ten-Minute Non-Spinning Reserve (TMNSR) – RCPF of \$1,500/MWh
- System Thirty-Minute Operating Reserve (TMOR) – RCPF of \$1,000/MWh
- Local Reserve Zone TMOR – RCPF of \$250/MWh. Local Reserve Zones are:
  - NEMA-Boston
  - CT
  - SWCT

At a minimum OP-4 Actions 1 & 2 will be declared in accordance with Section 2 of this CROP any time a UDS case is approved with CSC conditions. Remaining OP-4 actions should be declared as necessary in an attempt to mitigate the capacity deficiency.

The NPCC CO-8 Conference Call numbers and pin are saved on the Control Room SharePoint site ([link](#)).

## Common Procedure Information

- A. Any ISO-NE qualified Control Room Operator has the authority to take actions required to comply with NERC Reliability Standards. A qualified ISO-NE Control Room Operator has met the following requirements:
  1. Have and maintain a NERC certification at the RC level (per R.1 of PER-003-2)
  2. Applicable Requirements of PER-005-2
  3. Approved to cover a Control Room Operator shift position by the Manager, Control Room Operations
  4. Is proficient at the current qualified level.
- B. Real time operation is defined as the current hour and the current hour plus one.
- C. Future hours are those beyond real time operation.
- D. All verbal communications with Local Control Centers (LCC), neighboring Reliability Coordinators/Balancing Authorities (RC/BA), Designated Entities (DE), Demand Designated Entities (DDE) and/or SCADA centers shall be made on recorded phone lines unless otherwise noted.
- E. For all communications:
  1. Use the Basic Protocol for All Operational Communications as prescribed in M/LCC 13
  2. Use 'ISO New England' or 'New England'. Refrain from using 'ISO'.
  3. Use Asset ID's when communicating with DE/DDEs.
  4. Use three-part communication in all situations where its use will enhance communications.
- F. Primary responsibilities are stated for each step within the procedure, but any ISO Control Room Operator qualified at that position or higher can perform the step. The Primary Responsibility may be delegated to an Operator in a lower qualified position, but the responsibility for its completion remains with the identified individual.
- G. The use of “ensure” within this document means that a verification has been performed and if the item is not correct, corrective actions will be performed.

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## Procedure

### Condition(s) to perform this section:

- Actions are required to prevent or minimize a capacity deficiency.

### Section 1 : Implementation of Pre OP-4 Actions

#### Step 1.1 Primary Responsibility: Operations Shift Supervisor

#### Condition(s) to perform this step:

- If Reserves actual or are forecasted to be less than the Ten Minute Total or Replacement Reserve requirement.

#### Determine what action(s) need to be taken.

#### Instructions

If Reserves actual or are forecasted to be less than the Ten Minute Total or Replacement Reserve requirement consider the following:

- ☐ Ensure Resources that have Reserve capability > 30 minutes are optimized in advance, as time allows.
- ☐ Ensure "Reserve Down" flags are set appropriately in EMS.
- ☐ Determine if extra margin is available from NYISO and PJM to maximize generation and Phase 2 imports on the ICM "Single Source Contingency Monitor" page.
- ☐ Ordering on long lead-time resources
- ☐ Adjust Scheduling Interfaces using CROP.31001 Scheduling External Transactions or CROP.31002 Curtailing External Transactions as applicable and in the following order:
  - Reduce the export transactions on the NYN interface based on the results of the Day Before Checkout Process.
    - If the net of the Day Before Checkout Process is an export, a MW value that will reduce the NYN NET export to zero.
    - If the net of the Day Before Checkout Process is an import, a MW value up to the Day Before Checkout NYN NET import value but not to exceed the "sale" value for the applicable interval.
  - On the non-CTS interfaces, using the Reserves display in REX2, curtail Real-Time Only export transactions until exhausted.
  - Schedule any available out-of-merit import transactions prior to implementing OP-4.
- ☐ Reducing "RT Only" import external transactions on Phase II to maintain Thirty-Minute Operating Reserve  
**NOTE:** The new reserve requirement will not be accounted for in APF-MOI until Phase II is at its new schedule. This should be considered prior to approving a UDS case with an inaccurate reserve requirement and/or reserve pricing.
- ☐ Determining if M/LCC 2 should be implemented by referring to CROP.25011 - Implement Operations During Abnormal Conditions.
- ☐ Consider requesting the Real Time Studies Group engineer to evaluate relaxing any restrictive stability interface limits to maximize generation.
- ☐ Consider requesting Capacity from NY on the NYN Interface if **NOT** importing.  
**NOTE:** NYISO may request Capacity from NE which may reduce capacity realized from NY.
- ☐ Evaluate NY Capacity resources located in New England (NY may counter cut the NE request for capacity from NY)
  - ☐ Request the TSO provide a list of generators located in NE with NY capacity
    - ☐ Determine if generators are available as follows:
      - On-line non-Fast Start or Fast Start
      - **NOT** located in a constrained area
- ☐ If the desired dispatch results are not being achieved through RTUC or UDS, and prior to approving a Capacity Scarcity condition:
  - ☐ Utilize the EMS Fast Start Manual Dispatch display to issue start ups to Fast Start Generators or DRRs that either do not have a Claim 30 value, or that have a large deviation between the Claim 30 value and the EcoMax/Max Reduction values.

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### Step 1.2 Primary Responsibility: Operations Shift Supervisor

#### Condition(s) to perform this step:

- If OP-4 is anticipated.

#### Determine what action(s) need to be taken.

##### Instructions

If OP-4 is anticipated or implemented and dispatch of a Limited Energy Resource will create or worsen a capacity deficiency:

- ☐ Determine if Posturing is necessary to improve system reliability per CROP.25001 Posturing

If OP-4 is anticipated or implemented and Emergency Energy Transactions (EET's) are expected to be necessary in order to maintain Ten Minute Reserve:

- ☐ Use [Section 4](#) to perform notifications requesting EET transactions

If a Thirty Minute Operating Reserve deficiency is forecast

- ☐ If providing any Capacity Backed Emergency Sales, convert the Capacity Backed Emergency Sales to Energy Only. This should be completed before a Capacity Scarcity condition could be triggered.
- ☐ A CO8 NPCC Conference call should be convened in accordance with NPCC Procedure CO-1, NPCC Emergency Preparedness Conference Call Procedures.

If a Ten-Minute Reserve deficiency is forecasted:

NOTE: This request could take several hours to grant

- ☐ Consider asking the owners of Bear Swamp and Northfield for the use of the remaining power in the ponds beyond the normal low limit of each applicable pond.

If a Ten-Minute reserve deficiency including the expected relief provided by Actions 1-6 is forecasted:

- ☐ Consider the implementation of OP-4 Action 7 to request non-CSO Generator and DRR capability be made available to ISO

If Operating Reserve amounts drop below Thirty-Minute Operating Reserve requirement:

- ☐ Proceed with the implementation of OP-4

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### Step 1.3 Primary Responsibility: Manager, Control Room Operations

#### Condition(s) to perform this step:

- Determined that OP-4 Actions are required to be implemented and it is during normal business hours.

#### During business hours.

---

#### Step 1.3.1 Primary Responsibility: Manager, Control Room Operations

##### Condition(s) to perform this step:

- If required based on system conditions.

**Convene a conference call with the appropriate M/LCC Head(s) to brief them on system conditions and the expected implementation of OP-4.**

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#### Step 1.3.2 Primary Responsibility: Manager, Control Room Operations

**Notify the Operations Shift Supervisor of discussions in the conference call.**

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#### Step 1.3.3 Primary Responsibility: Manager, Control Room Operations

**Initiate NPCC CO-08 Conference Call and discuss the capacity deficiency and planned actions.**

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#### Step 1.3.4 Primary Responsibility: Manager, Control Room Operations

**Notify External Affairs and Corporate Communications for state agency reporting.**

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**Step 1.4** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- Determined that OP-4 Actions are required to be implemented and it is outside of normal business hours.

**During non-business hours.**

---

**Step 1.4.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If time permits based on system conditions.

**Contact the Manager, Control Room Operations for input into the decision process before declaring M/LCC 2 Abnormal Conditions Alert.**

---

**Step 1.5** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- Determined that OP-4 Actions are required.

**Declare M/LCC 2 Abnormal Conditions Alert.**

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**Step 1.5.1** Primary Responsibility: Any Control Room Operator

**Use CROP.25011 Implement Operations During Abnormal Conditions.**

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#### Condition(s) to perform this section:

- Actions are required to mitigate a capacity deficiency; Or
- A UDS Case initiating a Capacity Scarcity Condition (CSC) has been approved.

## Section 2 : Implementation of OP-4 Actions

**Step 2.1** Primary Responsibility: Operations Shift Supervisor

#### Condition(s) to perform this step:

- If time allows.

Available actions in [Section 1](#) have been exhausted or completed prior to performing actions in this Section.

**Step 2.2** Primary Responsibility: Operations Shift Supervisor

**Determine the availability of emergency capacity and energy from other NPCC RC/BAs and PJM on interfaces that are NOT already scheduled to the import TTC.**

**Step 2.3** Primary Responsibility: Operations Shift Supervisor

**Implement OP-4 Action 1 - Power Caution - Depletion of 30 min Reserves.**

**Step 2.3.1** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 1.**

#### Instructions

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 1 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ Verify the “Current Power System Status” updates with the Power Caution, Website link: [Current Power System Status](#)
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 1 Implemented;
- ☐ Click “Web Posting Verified” when verified.

#### Notes


- This log entry will create a posting of OP-4 Action 1 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.
- At a minimum OP-4 Actions 1 & 2 should be declared any time a UDS case is approved that indicates a CSC, remaining OP-4 actions should be declared as necessary in an attempt to mitigate the capacity deficiency.

**Step 2.3.2** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally notify each LCC that OP-4 Action 1 has been implemented.**

**Step 2.3.2.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 1 Implemented log entry for the completion of the LCC notifications.**

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**Step 2.3.3** Primary Responsibility: Senior System Operator

**Verbally notify the NPCC RC/BAs "ISO New England is implementing procedures for a capacity deficiency".**

**Step 2.3.3.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 1 Implemented log entry for the completion of the NPCC RC/BA notifications.**

**Step 2.3.4** Primary Responsibility: Operations Shift Supervisor

**Instruct the Forecaster to verbally notify Interstate Gas Pipelines when OP-4 is implemented and provide notification when completed.**

**Step 2.3.4.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 1 Implemented log entry for the completion of the gas pipeline notifications.**

**Step 2.3.5** Primary Responsibility: Senior System Operator

**Send the ENS message for OP-4 Action 1.**

#### Notes

Action 1 ENS notification will go to the DEs and DDEs

**Step 2.3.5.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 1 Implemented log entry for ENS Notifications Made.**

**Step 2.4** Primary Responsibility: Operations Shift Supervisor

#### Condition(s) to perform this step:

- This OP-4 action is required to mitigate a system wide capacity deficiency.

**Implement OP-4 Action 2 – Declaration of EEA Level 1.**

**Step 2.4.1** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 2.**

#### Instructions

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 2 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 2 Implemented;
- ☐ Click “Web Posting Verified” when verified.

#### Notes

- This log entry will create a posting of OP-4 Action 2 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.
- At a minimum OP-4 Actions 1 & 2 should be declared any time a UDS case is approved that indicates a CSC Remaining OP-4 actions should be declared as necessary in an attempt to mitigate the capacity deficiency.



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**Step 2.4.2** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally notify each LCC that OP-4 Action 2 has been implemented.**

**Step 2.4.2.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 2 Implemented log entry for the completion of the LCC notifications.**

**Step 2.4.3** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This action is being used to mitigate a system wide capacity deficiency; Or
- An EEA level 1 posting was made and is still in effect and the system conditions from the initial posting have changed.

**Make an RCIS posting declaring an EEA level 1 in the "Energy Emergency Alert" category;  
or  
Update the RCIS EEA level 1 posting.**

**Instructions**

Select ONLY the following in the "Send to" field:

- ☐ Regions
- ☐ Reliability Coordinators
- ☐ Add clarifying information in the Notes as to what system conditions have changed, ie: Load Forecast, Resource availability, neighboring RC/BA deficiency etc.

**Step 2.4.3.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 2 Implemented log entry for the completion of the RCIS posting.**

**Step 2.4.3.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**


- An update to the EEA Level 1 posting was made due to a change in system conditions.

**Log the EEA Level 1 update posting.**

**Instructions**

Use log entry > EMERGENCY PROCEDURE EVENTS > EEA Update for System Condition Change, and perform the following:

- ☐ Select the EEA Level posting being updated
- ☐ Identify the reason for the updated posting.

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**Step 2.5** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is required to mitigate the capacity deficiency.

**Implement OP-4 Action 3 - MP Voluntary Load Curtailment.**

**Step 2.5.1** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 3.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 3 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 3 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 3 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

**Step 2.5.2** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally notify each LCC that OP-4 Action 3 has been implemented.**

**Step 2.5.2.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 3 Implemented log entry for the completion of the LCC notifications.**

**Step 2.5.3** Primary Responsibility: Senior System Operator

**Send the ENS message for OP-4 Action 3.**

**Notes**

Action 3 ENS notification will go to the DEs and DDEs

**Step 2.5.3.1** Primary Responsibility: Operations Shift Supervisor


**Update the OP-4 Action 3 Implemented log entry for ENS Notifications Made.**

**Step 2.6** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- Implemented when a sustained deficiency in Ten-Minute reserve is anticipated to last for at least one hour, or OP-4 conditions are expected to last greater than 4 hours.

**Implement OP-4 Action 4 - Power Watch.**

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**Step 2.6.1** Primary Responsibility: Operations Shift Supervisor

### Log the implementation of OP-4 Action 4.

#### Instructions

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 4 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ Verify the “Current Power System Status” updates with the Power Watch, Website link: [Current Power System Status](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 4 Implemented;
- ☐ Click “Web Posting Verified” when verified.

#### Notes

This log entry will create a posting of OP-4 Action 4 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

**Step 2.6.2** Primary Responsibility: Any Control Room Operator

### Initiate an "All LCCs" call and verbally notify each LCC that OP-4 Action 4 has been implemented.

**Step 2.6.2.1** Primary Responsibility: Operations Shift Supervisor

### Update the OP-4 Action 4 Implemented log entry for the completion of the LCC notifications.

**Step 2.7** Primary Responsibility: Operations Shift Supervisor

#### Condition(s) to perform this step:

- A deficiency of Ten-Minute Reserve is anticipated; Or
- Actual Ten-Minute Reserve is less than the required amount.

### Implement OP-4 Action 5 - Transaction Curtailment/Purchase.


#### Instructions

- ☐ ISO will normally implement Action 5 and beyond of OP-4 to maintain Ten-Minute Reserve.
- ☐ If the desired dispatch results are not being achieved through RTUC or UDS::
  - ☐ Utilize the EMS Fast Start Manual Dispatch display to issue start ups to Fast Start Generators or DRRs that either do not have a Claim 10 value, or that have a large deviation between the Claim 10 value and the EcoMax/Max Reduction values.

#### Notes

Required order of implementation for Action 5, exhausting each prior to performing the next item:

1. Recall export external transactions on the NYN Interface (done in [Step 2.7.4](#))
2. Schedule available EETs (done in [Step 2.7.6](#))
3. Recall Day Ahead export external transactions on the non-CTS Interfaces (done in [Step 2.7.7](#))
4. Schedule CA to CA Emergency (done in [Step 2.7.8](#))

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**Step 2.7.1** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 5.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 5 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 5 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 5 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

**Step 2.7.2** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally notify each LCC that OP-4 Action 5 has been implemented.**

**Step 2.7.2.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 5 Implemented log entry for the completion of the LCC notifications.**

**Step 2.7.3** Primary Responsibility: Senior System Operator

**Consider the use of emergency transfer capability; actions are found in [Section 5](#) of this CROP.**

**Step 2.7.4** Primary Responsibility: Generation Operator

**Condition(s) to perform this step:**

- NYN schedule is less than the TTC; And
- Sale contracts are available to curtail.

**Recall export external transactions on the NYN Interface.**

**Instructions**

Using either CROP.31001 Scheduling External Transactions or CROP.31002 Curtailing External Transactions .

**Step 2.7.5** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If the request for EETs has NOT been made.

**Request EETs using [Section 4](#) of this CROP.**

**Step 2.7.6** Primary Responsibility: Generation Operator

**Schedule available EETs using [Section 4](#) of this CROP.**

**Notes**

EETs are **NOT** available on the NYN Interface.

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**Step 2.7.7** Primary Responsibility: Generation Operator

**Recall Day Ahead export external transactions on the non-CTS Interfaces.**

**Instructions**

Using either CROP.31001 Scheduling External Transactions or CROP.31002 Curtailing External Transactions.

**Step 2.7.8** Primary Responsibility: Generation Operator

**Schedule CA to CA Emergency.**

**Instructions**

Using CROP.31001 Scheduling External Transactions.

**Step 2.7.9** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If the increased transfer capability resulted in a limit that is based on a stuck breaker or double circuit tower.

**Consider declaring OP-19 Emergency Conditions to eliminate the requirement to respect stuck breaker or double circuit tower contingencies.**

**Step 2.8** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- Ten-Minute Total Reserve is deficient.

**Credit and log the anticipated MW relief provided by a 5% Voltage Reduction < 10 min.**

**Instructions**

- ☐ Use log entry: > EMERGENCY PROCEDURE EVENTS > OP4 > Voltage Reduction Credited as Reserves
- ☐ Enter the following:
  - ☐ "Time Start" within log entry as the time the voltage reduction was initially credited as reserve
  - ☐ "MW Amount"

**Notes**

- From OP-8: If ISO is arranging to purchase available emergency capacity and energy, or energy only, in accordance with OP-4, and a shortage of Ten-Minute Reserve is forecast, ISO will recognize that voltage reduction load relief available in ten minutes (10) provides non-synchronized Operating Reserve.
- The credited MW relief via voltage reduction will only be tracked in OPRALOG and shall not be entered into EMS.

**Step 2.9** Primary Responsibility: Senior System Operator


**Condition(s) to perform this step:**

- The amount of the **ACTUAL** total Ten-Minute Reserve is < 500MW; Or
- Load has been shed for a system wide Capacity Deficiency.

**Perform Notifications for SAR and MRA assistance.**

**Instructions**

- ☐ Notify NYISO that ISO-NE can no longer provide SAR.
- ☐ Notify NBP-SO that ISO-NE can no longer provide MRA.

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**Step 2.10** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is required to mitigate the capacity deficiency.

**Implement OP-4 Action 6 - 5% Voltage Reduction > 10 min.**

**Step 2.10.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify the Control Room Operators of the start of M/LCC 13 Operating Emergency Conditions communications requirement.**

**Step 2.10.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Log the start of M/LCC 13 Operating Emergency Communications.**

**Instructions**

Use log entry: > COMMUNICATION > M/LCC 13 > Operating Emergency, Started

**Step 2.10.3** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 6.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 6 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 6 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 6 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

**Step 2.10.4** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally provide the following:**


Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Required items:

- ☐ If not previously performed:
  - ☐ “ISO-NE is declaring an M/LCC 13 Operating Emergency Condition”
  - ☐ That “OP-4 Action 6 has been implemented”
- ☐ Issue the Operating instruction:
  - ☐ ISO New England to [applicable LCCs or All LCCs]: “Implement a voltage reduction of 5% of normal operating voltage requiring more than 10 minutes to implement”

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---

**Step 2.10.4.1** Primary Responsibility: Operations Shift Supervisor  
**Update the OP-4 Action 6 Implemented log entry for the completion of the LCC notifications.**

---

**Step 2.10.4.2** Primary Responsibility: Operations Shift Supervisor  
**Update the M/LCC 13 Operating Emergency log entry for the completion of the LCC notifications.**

---

**Step 2.10.5** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify neighboring RC/BAs of the declaration of an Operating Emergency Condition.**

**Instructions**

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

---

**Step 2.10.5.1** Primary Responsibility: Operations Shift Supervisor  
**Update the M/LCC 13 Operating Emergency log entry for the completion of the RC/BA notifications.**

---

**Step 2.10.6** Primary Responsibility: Operations Shift Supervisor  
**Perform “System Wide Voltage Reduction of 3% or greater” of CROP.50001 Reporting Procedure.**

---

**Step 2.10.7** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This action is being used to mitigate a system wide capacity deficiency.

**Make an RCIS posting declaring an EEA level 2 in the "Energy Emergency Alert" category.**

**Instructions**

Select ONLY the following in the “Send to” field:


- ☐ Regions
- ☐ Reliability Coordinators
- ☐ Add clarifying information in the Notes as to what system conditions have changed, ie: Load Forecast, Resource availability, neighboring RC/BA deficiency etc.

---

**Step 2.10.7.1** Primary Responsibility: Operations Shift Supervisor  
**Update the OP-4 Action 6 Implemented log entry for the completion of the RCIS posting.**

---

**Step 2.10.8** Primary Responsibility: Operations Shift Supervisor  
**Begin to account for the manual load shedding capability available as part of OP-7 to meet the Disturbance Control Standard requirements.**

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---

**Step 2.11** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is required to mitigate the capacity deficiency; And
- There are generators or DRRs available with capacity beyond their CSO.

**Implement OP-4 Action 7 - Request Generators and DRRs NOT subject to a CSO voluntarily provide energy for reliability purposes.**

---

**Step 2.11.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify the Control Room Operators of the start of M/LCC 13 Emergency Conditions communications requirement.**

---

**Step 2.11.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Log the start of M/LCC 13 Operating Emergency Communications.**

**Instructions**

Use log entry: > COMMUNICATION > M/LCC 13 > Operating Emergency, Started

---

**Step 2.11.3** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 7.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 7 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 7 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 7 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

---

**Step 2.11.4** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally provide the following:**

Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Required items:

- ☐ If not previously performed:
  - ☐ “ISO-NE is declaring an M/LCC 13 Operating Emergency Condition”
- ☐ That OP-4 Action 7 has been implemented



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**Step 2.11.4.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 7 Implemented log entry for the completion of the LCC notifications.**

**Step 2.11.4.2** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the LCC notifications.**

**Step 2.11.5** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify neighboring RC/BAs of the declaration of an Operating Emergency Condition.**

**Instructions**

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

**Step 2.11.5.1** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the RC/BA notifications.**

**Step 2.11.6** Primary Responsibility: Senior System Operator

**Send the ENS message for OP-4 Action 7.**

**Notes**

Action 7 ENS notification will go to the DEs and DDEs and will also notify the entities of the declaration of an M/LCC 13 Operating Emergency Condition.

**Step 2.11.6.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 7 Implemented log entry for ENS Notifications Made.**

**Step 2.12** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is required to mitigate the capacity deficiency; Or
- Firm load has been shed to mitigate the capacity deficiency.

**Implement OP-4 Action 8 - 5% Voltage Reduction < 10 min.**

**Step 2.12.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify the Control Room Operators of the start of M/LCC 13 Operating Emergency Conditions communications requirement.**

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**Step 2.12.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Log the start of M/LCC 13 Operating Emergency Communications.**

**Instructions**

Use log entry: > COMMUNICATION > M/LCC 13 > Operating Emergency, Started

**Step 2.12.3** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 8.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 8 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 8 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 8 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

**Step 2.12.4** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally provide the following:**

Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Required items:

- ☐ If not previously performed:
  - ☐ “ISO-NE is declaring an M/LCC 13 Operating Emergency Condition”
- ☐ That “OP-4 Action 8 has been implemented”
- ☐ Operating instruction:
  - ☐ ISO New England to [applicable LCCs or All LCCs]: "Implement a voltage reduction of 5% of normal voltage that is attainable within 10 minutes"

**Step 2.12.4.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 8 Implemented log entry for the completion of the LCC notifications.**

**Step 2.12.4.2** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the LCC notifications.**

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**Step 2.12.5** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify neighboring RC/BAs of the declaration of an Operating Emergency Condition.**

**Instructions**

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

---

**Step 2.12.5.1** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the RC/BA notifications.**

---

**Step 2.12.6** Primary Responsibility: Operations Shift Supervisor

**Perform “System Wide Voltage Reduction of 3% or greater” of CROP.50001 Reporting Procedure.**

---

**Step 2.12.7** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- Voltage Reduction was being credited as 10 Minute non-sync Reserve.

**Update the “Voltage Reduction Credited as Reserves” log entry to reflect that a Voltage Reduction is no longer being credited as 10 Minute non-sync Reserve.**

**Instructions**

Enter the following:

- ☐ “Time Stop” within log entry as the time the voltage reduction was no longer credited as reserve.

---

**Step 2.12.8** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This action is being used to mitigate a system wide capacity deficiency; Or
- An EEA level 2 posting was made and is still in effect and the system conditions from the initial posting have changed.

**Make an RCIS posting declaring an EEA level 2 in the "Energy Emergency Alert" category; or**

**Update the RCIS EEA level 2 posting.**

**Instructions**


Select ONLY the following in the “Send to” field:

- ☐ Regions
- ☐ Reliability Coordinators
- ☐ Add clarifying information in the Notes as to what system conditions have changed, ie: Load Forecast, Resource availability, neighboring RC/BA deficiency etc.

---

**Step 2.12.8.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 8 Implemented log entry for the completion of the RCIS posting.**

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**Step 2.12.8.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- An update to the EEA Level 2 posting was made due to a change in system conditions.

**Log the EEA Level 2 update posting.**

**Instructions**

Use log entry > EMERGENCY PROCEDURE EVENTS > EEA Update for System Condition Change

Perform the following:

- ☐ Select the EEA Level posting being updated
- ☐ Identify the reason for the updated posting.

---

**Step 2.13** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is required to mitigate the capacity deficiency.

**Implement OP-4 Action 9 - Non-contractual Generation Request and Voluntary Load Curtailment of Industrial and Commercial Customers.**

---

**Step 2.13.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify the Control Room Operators of the start of M/LCC 13 Operating Emergency Conditions communications requirement.**

---

**Step 2.13.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Log the start of M/LCC 13 Operating Emergency Communications.**

**Instructions**

Use log entry: > COMMUNICATION > M/LCC 13 > Operating Emergency, Started

---

**Step 2.13.3** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 9.**

**Instructions**


Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 9 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 9 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 9 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

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**Step 2.13.4** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally provide the following:**

Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Required items:

- ☐ If not previously performed:
  - ☐ "ISO-NE is declaring an M/LCC 13 Operating Emergency Condition"
- ☐ That OP-4 Action 9 has been implemented

**Step 2.13.4.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 9 Implemented log entry for the completion of the LCC notifications.**

**Step 2.13.4.2** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the LCC notifications.**

**Step 2.13.5** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If NOT previously performed.

**Notify neighboring RC/BAs of the declaration of an Operating Emergency Condition.**

**Instructions**

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

**Step 2.13.5.1** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the RC/BA notifications.**

**Step 2.14** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is being declared on a forecasted basis; Or
- This OP-4 action is required to mitigate a current day capacity deficiency.

**Implement OP-4 Action 10 - Power Warning – Radio/TV Appeals.**

**Step 2.14.1** Primary Responsibility: Operations Shift Supervisor


**Condition(s) to perform this step:**

- If NOT previously declared and Action 10 is required to mitigate an actual capacity deficiency.

**Notify the Control Room Operators of the start of M/LCC 13 Operating Emergency Conditions communications requirement.**

**Notes**

An Emergency Condition is **NOT** declared for implementing prior to the actual capacity deficiency.

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**Step 2.14.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Log the start of M/LCC 13 Operating Emergency Communications.**

**Instructions**

Use log entry: > COMMUNICATION > M/LCC 13 > Operating Emergency, Started

---

**Step 2.14.3** Primary Responsibility: Operations Shift Supervisor

**Log the implementation of OP-4 Action 10.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 10 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ Verify the “Current Power System Status” updates with the Power Warning, Website link: [Current Power System Status](#)
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 10 Implemented;
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting of OP-4 Action 10 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

---

**Step 2.14.4** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally provide the following:**

Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Required items:

- ☐ If not previously performed:
  - ☐ “ISO-NE is declaring an M/LCC 13 Operating Emergency Condition” (Not declared if implementing prior to the actual capacity deficiency)
- ☐ That OP-4 Action 10 has been implemented

---

**Step 2.14.4.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 10 Implemented log entry for the completion of the LCC notifications.**

---

**Step 2.14.4.2** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the LCC notifications.**

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**Step 2.14.5** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- If NOT previously performed; And
- Action 10 is being implemented DURING an actual capacity deficiency.

**Notify neighboring RC/BAs of the declaration of an Operating Emergency Condition.**

**Instructions**

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

---

**Step 2.14.5.1** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the RC/BA notifications.**

---

**Step 2.14.6** Primary Responsibility: Operations Shift Supervisor

**Perform “Public Appeals to reduce the use of electricity” of CROP.50001 Reporting Procedure.**

---

**Step 2.14.7** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- OP-4 Action 10 is being declared to mitigate a current day system wide capacity deficiency; Or
- An EEA level 2 posting was made and it is still in effect and the system conditions from the initial posting have changed.

**Make an RCIS posting declaring an EEA level 2 in the "Energy Emergency Alert" category;  
or**

**Update the RCIS EEA level 2 posting.**

**Instructions**


Select ONLY the following in the “Send to” field:

- ☐ Regions
- ☐ Reliability Coordinators
- ☐ Add clarifying information in the Notes as to what system conditions have changed, ie: Load Forecast, Resource availability, neighboring RC/BA deficiency etc.

---

**Step 2.14.7.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 10 Implemented log entry for the completion of the RCIS posting.**

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**Step 2.14.7.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- An update to the EEA Level 2 posting was made due to a change in system conditions.

**Log the EEA Level 2 update posting.**

**Instructions**

Use log entry > EMERGENCY PROCEDURE EVENTS > EEA Update for System Condition Change

Perform the following:

- ☐ Select the EEA Level posting being updated
- ☐ Identify the reason for the updated posting.

---

**Step 2.15** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- This OP-4 action is being declared on a forecasted basis; Or
- This OP-4 action is required to mitigate a current day capacity deficiency.

**Implement OP-4 Action 11 - Governor Appeals.**

---

**Step 2.15.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously declared; And
- Action 11 is required to mitigate an actual capacity deficiency.

**Notify the Control Room Operators of the start of M/LCC 13 Operating Emergency Conditions communications requirement.**

**Notes**

An Emergency Condition is **NOT** declared for implementing prior to the actual capacity deficiency.

---

**Step 2.15.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- If NOT previously performed.

**Log the start of M/LCC 13 Operating Emergency Communications.**

**Instructions**

Use log entry: > COMMUNICATION > M/LCC 13 > Operating Emergency, Started



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**Step 2.15.3** Primary Responsibility: Operations Shift Supervisor

### Log the implementation of OP-4 Action 11.

#### Instructions

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > IMPLEMENTED > 11 [WEB] [E]

Perform the following:

- ☐ Enter the Start Date and Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post OP4 Action 11 Implemented;
- ☐ Click “Web Posting Verified” when verified.

#### Notes

This log entry will create a posting of OP-4 Action 11 to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

**Step 2.15.4** Primary Responsibility: Any Control Room Operator

### Initiate an "All LCCs" call and verbally provide the following:

Standard(s) for completion:

- Three part communication is required to be used.

#### Instructions

Required items:

- ☐ If not previously performed:
  - ☐ “ISO-NE is declaring an M/LCC 13 Operating Emergency Condition” (Not declared if implementing prior to the actual capacity deficiency)
- ☐ That OP-4 Action 11 has been implemented

**Step 2.15.4.1** Primary Responsibility: Operations Shift Supervisor

### Update the OP-4 Action 11 Implemented log entry for the completion of the LCC notifications.

**Step 2.15.4.2** Primary Responsibility: Operations Shift Supervisor

### Update the M/LCC 13 Operating Emergency log entry for the completion of the LCC notifications.

**Step 2.15.5** Primary Responsibility: Senior System Operator

#### Condition(s) to perform this step:

- If NOT previously performed; And
- Action 11 is being implemented DURING an actual capacity deficiency.

### Notify neighboring RC/BAs of the declaration of an Operating Emergency Condition.

#### Instructions

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

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**Step 2.15.5.1** Primary Responsibility: Operations Shift Supervisor

**Update the M/LCC 13 Operating Emergency log entry for the completion of the RC/BA notifications.**

**Step 2.15.6** Primary Responsibility: Operations Shift Supervisor

**Perform “Public Appeals to reduce the use of electricity” of CROP.50001 Reporting Procedure.**

**Step 2.15.7** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- OP-4 Action 11 is being declared to mitigate a current day system wide capacity deficiency; Or
- An EEA level 2 posting was made and is still in effect and the system conditions from the initial posting have changed.

**Make an RCIS posting declaring an EEA level 2 in the "Energy Emergency Alert" category; or  
Update the RCIS EEA level 2 posting.**

**Instructions**

Select ONLY the following in the “Send to” field:

- ☐ Regions
- ☐ Reliability Coordinators

**Notes**

Entering comments into the message field of the RCIS posting is optional.

**Step 2.15.7.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 11 Implemented log entry for the completion of the RCIS posting.**

**Step 2.15.7.2** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- An update to the EEA Level 2 posting was made due to a change in system conditions.

**Log the EEA Level 2 update posting.**

**Instructions**

Use log entry > EMERGENCY PROCEDURE EVENTS > EEA Update for System Condition Change

Perform the following:

- ☐ Select the EEA Level posting being updated
- ☐ Identify the reason for the updated posting.

**Step 2.16** Primary Responsibility: Operations Shift Supervisor


**Condition(s) to perform this step:**

- If shedding load is imminent or has been implemented.

**OP-7 Load Shedding**

**Step 2.16.1** Primary Responsibility: Any Control Room Operator

**Use CROP.10001 Load Shed to initiate load shedding and declaration of EEA Level 3.**

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**Condition(s) to perform this section:**

- System conditions allow for cancellation of actions.

**Section 3 : Cancellation of OP-4 and OP-7 Actions**

---

**Step 3.1** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- OP-7 Load Shed is being restored.

**Refer to CROP.10001 Load Shed for direction and notifications.**

---

**Step 3.2** Primary Responsibility: Senior System Operator

**Condition(s) to perform this step:**

- All load shed has been restored; And
- > 500MW of actual total Ten-Minute Reserve is available and it is expected that this threshold will be maintained.

**Notify NYISO that ISO-NE can provide SAR.**

---

**Step 3.3** Primary Responsibility: Operations Shift Supervisor

**Actions to be performed with each OP-4 Action being cancelled.**

---

**Step 3.3.1** Primary Responsibility: Operations Shift Supervisor

**Log the cancellation of each OP-4 Action.**

**Instructions**

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > CANCELLED > [select applicable action number being cancelled] [WEB]

Perform the following:

- ☐ Enter the Cancelled Time;
- ☐ Verify the notification has been posted to the “Calendar” section on the external website, Website link: [Website Calendar](#);
- ☐ If the Website Calendar failed to update, notify Customer Support to post the cancellation of the applicable OP4 Action;
- ☐ Verify the Current Power System Status updates as applicable; Website link: [Current Power System Status](#);
- ☐ Click “Web Posting Verified” when verified.

**Notes**

This log entry will create a posting indicating cancellation of each OP-4 Action to the ISO-NE website calendar and update the Power System Status, the posting may take up to five minutes.

---

**Step 3.3.2** Primary Responsibility: Senior System Operator

**Initiate an "All LCCs" call and verbally notify each LCC of the cancellation of each OP-4 Action.**

Standard(s) for completion:

- Three part communication is required to be used.

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**Step 3.3.2.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action cancellation log entry for the completion of the LCC notifications.**

**Step 3.3.3** Primary Responsibility: Senior System Operator

**Use ENS to perform notifications for cancellations.**

**Notes**

For Actions 1, 3, and 7 ENS notifications will go to DEs and DDEs. Action 7 ENS Message notifies the DEs and DDEs of the end of the M/LCC 13 Operating Emergency Conditions.

**Step 3.3.3.1** Primary Responsibility: Operations Shift Supervisor

**Update the applicable OP-4 Action cancellation log entry for the ENS Notifications Made.**

**Step 3.4** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- OP-7 actions have been cancelled.

**Update the RCIS posting declaring an EEA level 2.**

**Instructions**

Select ONLY the following in the "Send to" field:

- ☐ Regions
- ☐ Reliability Coordinators

**Notes**

Entering comments into the message field of the RCIS posting is optional.

**Step 3.5** Primary Responsibility: Operations Shift Supervisor

**Actions associated with cancelling OP-4 Action 8.**

**Instructions**

- ☐ Terminate the 5% voltage reduction
- ☐ Operating instruction for terminating 5% Voltage Reduction attainable within 10 minutes:
  - ☐ ISO New England to [applicable LCCs or All LCCs]: "Terminate the 5% voltage reduction attainable within 10 minutes. Return to normal operating voltage".
- ☐ Update the RCIS posting for change in system conditions.

**Step 3.6** Primary Responsibility: Operations Shift Supervisor

**Actions associated with cancelling OP-4 Action 6.**

**Instructions**

- ☐ Terminate the 5% voltage reduction
- ☐ Operating instruction for terminating a 5% Voltage Reduction that requires more than 10 minutes to implement:
  - ☐ ISO New England to [applicable LCCs or All LCCs]: "Terminate the 5% voltage reduction requiring more than 10 minutes to implement. Return to normal operating voltage".
- ☐ Update the RCIS posting for change in system conditions.

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---

**Step 3.7** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- OP-4 Actions 6, 8, 10, and 11 have all been cancelled.

**Update the RCIS posting declaring an EEA level 1.**

**Instructions**

Select ONLY the following in the "Send to" field:

- ☐ Regions
- ☐ Reliability Coordinators

**Notes**

Entering comments into the message field of the RCIS posting is optional.

---

**Step 3.8** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- OP-7 actions and OP-4 Actions 6, 7, 8, 9, 10, and 11 have all been cancelled.

**Perform notifications for the end of M/LCC 13 Emergency Conditions communications requirements.**

---

**Step 3.8.1** Primary Responsibility: Any Control Room Operator

**Notify the Control Room Operators of the end of M/LCC 13 Emergency Conditions communications requirements.**

---

**Step 3.8.2** Primary Responsibility: Any Control Room Operator

**Initiate an "All LCCs" call and verbally provide the following:**

Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Required items:

ISO-NE is ending the M/LCC 13 Operating Emergency Conditions

---

**Step 3.8.3** Primary Responsibility: Any Control Room Operator

**Notify neighboring RC/BAs of the end of the Operating Emergency Condition.**

Standard(s) for completion:

- Three part communication is required to be used.

**Instructions**

Notify the following areas:

- ☐ NYISO
- ☐ NBP-SO
- ☐ HQTE

---

**Step 3.8.4** Primary Responsibility: Any Control Room Operator

**Log the end of M/LCC13 Operating Emergency Conditions communications.**

**Instructions**

Use log entry: > COMMUNICATIONS > M/LCC 13 > Operating Emergency, Ended

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**Step 3.9** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- Voltage Reduction was being credited as 10 Minute non-sync Reserve.

**Update the “Voltage Reduction Credited as Reserves” log entry to reflect that a Voltage Reduction is no longer being credited as 10 Minute non-sync Reserve.**

**Instructions**

Enter the “Time Stop” within log entry as the time the voltage reduction was no longer credited as reserve.

---

**Step 3.10** Primary Responsibility: Operations Shift Supervisor

**Actions associated with cancelling OP-4 Action 5.**

**Instructions**

Terminate the following actions in the order listed:

- ☐ Scheduling CA to CA Emergency;
- ☐ Notify NYISO emergency transfer capability is **no** longer required, if use was authorized
- ☐ Recalling Day Ahead Priority external transactions on the non-CTS Interfaces ;
- ☐ Scheduling EET external transactions;
- ☐ Recalling export external transactions on the NYN Interface.

---

**Step 3.11** Primary Responsibility: Operations Shift Supervisor

**Condition(s) to perform this step:**

- EEA level 1 has been declared based on OP-4 Actions 6, 8, 10, and 11 being cancelled; And
- OP-4 Action 2 has been cancelled.

**Update the RCIS posting declaring an EEA level 0.**

**Instructions**

Select **ONLY** the following in the “Send to” field:

- ☐ Regions
- ☐ Reliability Coordinators

**Notes**

Entering comments into the message field of the RCIS posting is optional.

---

**Step 3.12** Primary Responsibility: Senior System Operator

**Verbally provide notification to NPCC RC/BAs when the last action of OP-4 is cancelled that ISO-NE has exited its capacity deficiency procedures.**

---

**Step 3.12.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 1 cancellation log entry with the notification.**

---

**Step 3.13** Primary Responsibility: Operations Shift Supervisor

**Instruct the Forecaster to verbally notify Interstate Gas Pipelines when OP-4 is cancelled and provide notification when completed.**

---

**Step 3.13.1** Primary Responsibility: Operations Shift Supervisor

**Update the OP-4 Action 1 cancellation log entry with the notification.**

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**Step 3.15**      Primary Responsibility:    Operations Shift Supervisor  
**Review all OP-4 log entries and ensure all required actions have been performed.**

---

**Step 3.16**      Primary Responsibility:    Operations Shift Supervisor  
**Notify the Manager, Control Room Operations that the logs are ready for review.**

---

**Step 3.17**      Primary Responsibility:    Manager, Control Room Operations  
**Review the actions performed.**

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**Condition(s) to perform this section:**

- When determined EETs are required to maintain 10 Minute Reserve; Or
- Restore 30 minute reserve deficiency that has lasted for 4 hours.

## Section 4 : Requesting and Scheduling Emergency Energy Transaction (EETs) purchases

---

### Step 4.1

#### Perform notifications requesting EETs

---

**Step 4.1.1** Primary Responsibility: Senior System Operator

#### Log the EET Request.

##### Instructions

Use log entry: > EMERGENCY PROCEDURE EVENTS > OP 4 > EET Request [WEB] [E]

Enter the following:

- ☐ Start Date and Time
- ☐ Expected End Date and Time

##### Notes

- This log entry will create a posting of the EET Request to the ISO-NE website calendar; the posting may take up to five minutes.
- Enter the Expected End Date and Time that the EETs may be required.

---

**Step 4.1.2** Primary Responsibility: Operations Shift Supervisor

#### Access the "Notice" section of the ISO-NE external website and ensure a message has been posted requesting EETs.

##### Instructions

- ☐ If the notification to the external website has NOT been posted, notify Customer Support to post a message to the external Web site.
- ☐ Website link: [Website Calendar](#);

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### Step 4.2

#### Scheduling EET Purchases.

---

**Step 4.2.1** Primary Responsibility: Operations Shift Supervisor

#### Ensure OP-4 Action 5 has been implemented.

---

**Step 4.2.2** Primary Responsibility: Operations Shift Supervisor

#### Inform the Generation Operator to schedule EETs and provide a MW value.

##### Instructions

Scheduling of EETs is done using CROP.31001 Scheduling External Transactions

[Return to Implement OP-4 Action 5](#) - Transaction Curtailment/Purchase portion of Section 2



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## Section 5 : Emergency Transfer Capability with NYISO

**Step 5.1** Primary Responsibility: Senior System Operator

**Determine if NY Tie Lines have room between LTE and STE that could allow the TTC to be increased.**

### Instructions

This is being done to determine if emergency transfer capability should be requested from NYISO; which would allow STE to be used vice LTE.

To determine applicable limits for NYN Tie Lines using saved spreadsheet:

- ☐ Access the “ISO-NE Tie Line Rating Summary” folder on the Control Room SharePoint;
- ☐ Open the ISO-NE TIE LINE SUMMARY NX9 spreadsheet;
- ☐ Locate the tie line and determine the limit.

To determine applicable limits for NYN Tie Lines using NX Application:

- ☐ Retrieve NYISO side limits from the NX-9 (for Limits that have an STE with a device description as “OP-19”, the DAL value is the STE);
- ☐ Retrieve the ISONE side Limits from the NX-9;
- ☐ Combine the two sets using the more conservative values.

**Step 5.2** Primary Responsibility: Senior System Operator

### Condition(s) to perform this step:

- **Determined that room exists between LTE and STE that allows the TTC to be increased.**


**Request emergency transfer capability to utilize STE limits on the NY ac tie lines (NYN, NNC, or both) from NYISO in order to increase the TTC and allow additional CA to CA Emergency Energy.**

### Instructions

If emergency transfer capability is authorized by NYISO, perform the following:

- ☐ Confirm the new limits to be used with the NYISO Operator;
- ☐ Inform the Control Room Operators of the authorization;
- ☐ Notify the Generation Operator of the TTC to be used for the applicable interface;
- ☐ Notify the Security Operator of the limits being used and to enter abnormal limits as required using CROP.34010 Transmission Limits.

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## Revision History

Rev. No.	Date (MM/DD/YY)	Reason	Contact
--	11/06/19	For previous revision history, refer to Rev 19 available through Ask ISO	Steven Gould
20	07/22/20	Updated procedure Background, Removed Condition to Perform Step 1.3.2, Added new Step 2.10 , reworked Steps 2.13 and 3.8 to include instruction from Section 5. Removed Section 5 and Re-numbered Section 6.	Steven Gould
21	10/08/20	Globally added RCIS instructions. Added mention of EEA Level 3 to Step 2.17.1. Modified Step 3.1 to direct to CROP.10001 Load Shed	Steven Gould
22	05/24/21	Updated References, Updated Section 1 and Section 2 to line up with OP-9 changes,	Steven Gould
23	09/29/21	Added Step 2.15 and 3.2 to manage SAR participation. Modified step 2.10 to clarify actions required to credit voltage reduction. Updated common procedure information	Steven Gould
24	05/27/22	Created table of contents for each OP4 action, Updated language to align with new REX2 software; Added language in Procedure Background to address Loader expectations and declaration of OP-4 when in a CSC. Added Condition to perform Section 2, modified language of Step 2.1, added CSC note to Steps 2.3.1 and 2.4.1. Modified Sections 2 & 3 to include instructions for M/LCC 13 Operating Emergencies.	Jonathan Gravelin
25	11/18/22	Updated Procedure Background; Added Note to Step 1.1 and Pre-OP4 instructions regarding Phase II; Moved Step 2.3 to Step 2.9 and clarified the condition to enter.	Jonathan Gravelin
26	05/08/23	Modified Condition to Enter for Step 1.1; Modified language in Step 2.3.3; Added Notes for the following Steps: 2.4.3, 2.4.3.2, 2.10.7, 2.12.8, 2.14.7, 2.15.7, 3.4, 3.7, 3.11, 4.11; Updated Instructions in 2.10.4 and 2.12.4.	Jonathan Gravelin
27	6/13/23	Administrative updated to review periodicity to 1 year	Jonathan Gravelin
28	01/02/24	Added Instruction to Step 1.1; Added Instructions to each OP4 Action for external calendar verification; Removed Standard for Completion in Steps 2.3.2, 2.4.2, 2.5.2, 2.6.2 & 2.7.2 as this is not a defined Operating Emergency condition per MLCC13 where 3 part communication is required; Added Instruction to 4.1.2; Modified Language in Steps: 2.3.3, 3.12, and 2.9	Jonathan Gravelin
29	03/25/24	Added Instructions to Steps 2.4.3, 2.10.7, 2.12.8, 2.14.7 as a feedback request by NERC when making EEA postings in RCIS.	Jonathan Gravelin