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References

1. ISO New England Tariff Section III - Market Rule 1
2. M-11 Market Operations
3. CROP.32001 Transmission Outages
4. CROP.32002 Generation Outages
5. CROP.34006 Clogger Transmission Constraints and EMSOUT
6. CROP.34013 Do Not Exceed Dispatchable Generation
7. CROP.35002 Regulation
8. CROP.35005 Dispatch using RTUC and UDS
9. CROP.36003 Commitment, De-commitment, Self-Scheduling and Self Dispatch

Procedure Background

A System Operator shall only accept a Redeclaration from the Designated Entity (DE).

Control Room Staff accepting a Redeclaration shall request and verify the resource's Asset ID to ensure the Redeclaration is made for the correct resource.

A Redeclaration shall stay in effect until the DE submits a subsequent Redeclaration restoring the previous Supply Offer parameter or modifying the Redeclared parameter value.

System Operators do not have the capability to redeclare any DRR offer parameters. DRR offer parameters are resubmitted, as necessary, by the Market Participant via eMarket.

A Self-Schedule (SS), by definition, is a commitment of a generator at its Eco Min.

- If it is **NOT** at its Eco Min, because of ramping, then a SS flag is **NOT** required (similar to when a generator is shutting down)
- If the generator is non-dispatchable, testing, or auditing the Eco Min can vary so that is why the SS flag is set in those cases as soon as an output breaker is closed.
- DRRs cannot Self-Schedule.

Guidance for when a Self-Schedule flag is required to be applied:

- ESDs must have a self-schedule flag set whenever they are on-line (i.e. any UCM other than UCM 1)
- With the exception of a case where ISO requires the generator to be on-line, if a generator is returning to service POST tripping off-line all hours will be Self-Scheduled from the point of breaker closure
- If a unit WITHOUT any existing commitments requests to Self-Schedule a block of future hours:
- Dispatchable units: all hours will be flagged as SS beginning with the hour the unit is expected to release for dispatch
- Non-Dispatchable units: all hours from the start of ramp (bkr close) would be flagged as SS
- If a unit WITH an existing commitment requests to Self-Schedule a block of early start hours:
  - Dispatchable units: SS flag is **NOT** required up to 4 hours; otherwise all additional hours that the unit will be released for dispatch will be flagged as SS
  - Non-Dispatchable units: all additional hours from the start of ramp would be flagged as SS
  - Notification to the forecaster is still required to ensure the resource is added to the COP.
- If a generator is committed for reliability and can release for dispatch at a time that is greater than 4 hours prior to the expected release time, notify the Operations Shift Supervisor to determine if the SS flag should be applied. If a generator WITH an existing commitment releases for dispatch earlier than scheduled (up to 4 hours), then a SS flag is **NOT** required. Notification to the forecaster is still required to ensure the resource is added to the COP.
- If the request was for Owner Testing the SS flag is applied for the duration of the Owner Testing time period.
- If a combined cycle generator is requesting to startup an off-line CT or prevent shutting one down, then a SS flag is only required if it is part of the initial Self-Schedule request (i.e. from an off-line state). If the generator is already on-line then no additional Self-Schedule flags are required to be set.

Implicit Commitments are created by an automatic process to all on-line resources that are currently operating without a commitment decision (CD). The process begins five minutes after the hour and runs periodically throughout the hour. Under normal conditions, Real-Time Commitments are explicit instructions to resources needed for first contingency coverage, second contingency coverage or capacity. The Implicit Commitment process allows resources that previously would have been ineligible for uplift such as Self-Scheduled resources to become eligible. The expectation for the operator is to perform an hourly review, using available information, to ensure that on-line resources have a commitment, Day Ahead or Real-Time. The SCRA "Startup/Shutdown" list, RTUC "Upcoming Events" list, and the SS flag indication & DA flag indication in EMS provides the necessary information to prevent improper implicit commitment decisions. Resources without a commitment should be released for shut down or they should have their SS extended once agreed to by the DE.

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.

Procedure

Condition(s) to perform this section:

- **A resource is observed NOT operating within its supply offer parameters.**

Section 1 : Respond to a deviation from supply offer parameter.

Notes

- The Limit tab in the RTU Messages OIS log can be used to help determine if a deviation from a supply offer parameter has occurred.
- Actions for deviations associated with DDGs are found in CROP.34013 Do Not Exceed Dispatchable Generation.

Step 1.1 Primary Responsibility: Any Control Room Operator

Contact the DE or DDE to compare supply offer parameters and observed performance to determine the reason for the deviation.

Step 1.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The DE agrees there is an issue and redeclares a supply offer parameter.**

Perform a redeclaration as requested by the DE using the applicable section of this procedure.

Step 1.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The DE does NOT agree that there is an issue.**

Notify the Senior System Operator and Operations Shift Supervisor

Step 1.3.1 Primary Responsibility: Senior System Operator

Determine if a unilateral redeclaration is required.

Notes

Unilateral redeclarations are performed to maintain reliability.

Step 1.3.2 Primary Responsibility: Senior System Operator

Notify the Generation Operator to perform a unilateral redeclaration.

Instructions

Perform the redeclaration in accordance with the applicable section of this procedure.

Step 1.3.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The Senior System Operator has determined a unilateral redeclaration is required.**

Perform a redeclaration as instructed.

Step 1.3.3.1 Primary Responsibility: Any Control Room Operator

Notify the DE of the unilateral redeclaration

Step 1.3.3.2 Primary Responsibility: Any Control Room Operator

Log the unilateral redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Step 1.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The DDE agrees there is an issue and plans to resubmit a supply offer parameter.**

Instruct the DDE to make the resubmittal via eMarket.

Condition(s) to perform this section:

- **A generator or DARD has gone out-of-service unplanned; Or**
- **A resource is being placed back in-service; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 2 : Modify the availability status of a resource.

Notes

- If a generator is being made available after tripping off-line use CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch.
- Placing either the ESD_{gen} or the ESD_{DARD} out-of-service results in all components of the ESD (generator, DARD, and ATRR) going out-of-service.

Step 2.1 Primary Responsibility: Any Control Room Operator

Access the resource's Limits display.

Step 2.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Resource is out-of-service (OOS).**

Change the UCM.

Notes

Attachment 1 - Unit Control Modes lists all of the UCMs and the when each should be utilized.

Step 2.2.1 Primary Responsibility: Any Control Room Operator

Place the resource OOS for the applicable hours.

Instructions

Modify out-of-service / unavailable status by either method:

- ❑ For all remaining hours: click the "OOS/Unavail Remaining Hours" button; Or
- ❑ For specific hours: Set the OOS flag for the applicable hours;
- ❑ If the resource is out-of-service for transmission:
  - ❑ Enter zero for ISO Imposed Eco Max and Eco Min for the applicable hours;
  - ❑ Enter a reason code
  - ❑ Remove the zero for the RTHOL, Eco Max, Eco Min and Emerg Min wells for the applicable hours.

Step 2.2.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The resource is not an intermittent resource.**

Log the modification to the status.

Instructions

- ❑ For a generator OOS due to transmission, use log entry: > GENERATION > OOS > Due to Transmission [E].
- ❑ For a generator OOS unplanned, use log entry: > GENERATION > OOS > Unplanned.

Notes

- A generator is considered "OOS due to transmission" if the generator is fully unavailable as a direct result of an outage of transmission equipment between the high side of the GSU and the point of interconnection.
- Generators with Forward Reserve Market (FRM) obligations are exempt from Failure-to-Reserve-penalties resulting from the outage of transmission equipment between the high side of the GSU and the point of interconnection. Proper log entry selection ensures the appropriate settlement.
- Unplanned outages are covered under CROP.32002 Generation Outages.
- Intermittent resources that are requesting to go OOS due to a lack of fuel supply i.e. water, should remain in a UCM4 and redeclare their Eco Min to 0MW. This allows the resource to still receive a proper DNE target and operate to that value when their fuel source is replenished.

Step 2.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Resource will be out-of-service (OOS) beyond the current shift; Or**
- **DE/DDE has requested a new forced outage.**

Perform CROP.32002 Generation outages "Forced Outage".

Step 2.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A resource that was out-of-service is now available.**

Change the UCM

Notes

Attachment 1 - Unit Control Modes lists all of the UCMs and the when each should be utilized.

Step 2.4.1 Primary Responsibility: Any Control Room Operator

Restore the resource's operating limits.

Instructions

- ❑ If the resource has bid data for being available: click the "Return to Bid Remaining Hours" button.
- ❑ If the non-ESD resource does **NOT** have bid data for being available or is only being returned to service for specific hours: set the Eco flag and enter the applicable limits.
- ❑ If the resource is an ESD, set the self-schedule flag.

Step 2.4.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The resource is not an intermittent resource.**

Log the modification to the status.

Instructions

Use log entry: > GENERATION > Return from outage/reduction

Step 2.5 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Generator or DARD pump is available.**

Request Forecaster to restore the resource in the COP.

Step 2.6 Primary Responsibility: Any Control Room Operator

Make the required notifications.

Instructions

The following are to be notified:

- ❑ Applicable LCC(s)
- ❑ Forecaster
- ❑ Operations Shift Supervisor
- ❑ Senior System Operator

Condition(s) to perform this section:

- **DAM has been approved and tomorrow's data has NOT been populated.**

Section 3 : Retrieve tomorrow's data

Notes

Tomorrow's data should automatically populate when the DAM is approved.

Step 3.1

Primary Responsibility: Any Control Room Operator

Access the Unit, DARD, DRR or ESD Limits display.

Instructions

Access the Unit, DARD, DRR or ESD Limit display by:

- ❑ Clicking the “RTG” button;
- ❑ Clicking the “UNIT”, “DARD”, “DRR”, or “ESD” LMT button or “ASSET STAT” button and selecting the appropriate tab;
- ❑ Locate and select the applicable resource;
- ❑ Clicking the “Limits” tab

Step 3.2

Primary Responsibility: Any Control Room Operator

Click the “Get Tomorrow's Data” button

Condition(s) to perform this section:

- **Market Database Administrator requests DDG automatic redeclaration threshold to be updated.**

Section 4 : Update a resource's Auto Redec Update Threshold (%) or (Mw) Threshold

Notes

The Auto Redec Update (%) Threshold value is unique to each Wind, Hydro and Solar resource. The Auto Redec (Mw) Threshold is a system wide parameter that affects all automatic redeclarations for all resource types and the Manager, Operations Analysis and Integration (OAI) should be consulted prior to redeclaring this parameter.

Step 4.1 Primary Responsibility: Any Control Room Operator

Access the Limits display for the applicable resource.

Step 4.2 Primary Responsibility: Any Control Room Operator

Enter an updated Auto Redec Update Threshold (%) value.

Notes

The normal value is 1%.

Step 4.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The Auto Redec Mw Threshold value needs to be updated; And**
- **Manager, OAI has been consulted prior to the redeclaration.**

Enter an updated Auto Redec Mw Threshold (Mw) value.

Instructions

Perform the redeclaration by:

- ❑ Clicking the "RTG" button;
- ❑ Clicking the "Analyst Displays" menu;
- ❑ Locating "AGC Area Parameters" and selecting "ACE and Misc Parameters";
- ❑ Enter the new value in "Auto Redec Mw Threshold (Mw)" well.

Notes

The normal value is 0.2MW.

Step 4.4 Primary Responsibility: Any Control Room Operator

Log the modification to the auto-redec parameter.

Instructions

Use log entry: > GENERATION > Redeclarations

Condition(s) to perform this section:

- **DE has requested a redeclaration of a Real Time High Operating Limit value; Or**
- **DE has requested a redeclaration of an Economic Maximum value; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 5 : Real Time High Operating Limit (RTHOL) or Economic Maximum (Eco Max)

Step 5.1
Primary Responsibility: Any Control Room Operator

Access the Limits display for the applicable generator.

Step 5.2
Primary Responsibility: Any Control Room Operator

Enter the reason code.

Notes

- For a wind DDG, the reason code must be something other than WIND or RPLAN. This will prevent the reason code from being overwritten by the auto-redeclaration process.
- For an intermittent hydro DDG, the reason code must be something other than PUSH or HYDR. This will prevent the reason code from being overwritten by the auto-redeclaration process.
- For ESDs, only redeclarations of RTHOL are allowed, redeclaration of Eco Max should not be performed as it is redeclared via the auto-redeclaration process and determined by their Total Available Energy. There are instances where a redeclaration of Eco Max may be required as directed by other procedures.
- For solar resources, the reason code must be something other than PUSH, SOLA or RPLAN. This will prevent the reason code from being overwritten by the auto-redeclaration process.

Step 5.2.1
Primary Responsibility: Any Control Room Operator

Enter the new MW value in the RTHOL Redec or Eco Max Redec column.

Notes

If the physical capability of the unit is restricted, BOTH the RTHOL and Eco Max shall be redeclared.

Step 5.3
Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is to be removed.**

Remove the redeclaration value to return to bid.

Step 5.4
Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If redeclaration is ≥ 50 MW; Or**
- **If redeclaration is ≥ 5 MW during OP-4 conditions; Or**
- **Resource is being dispatched to alleviate a transmission constraint.**

Log the redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Step 5.5 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If redeclaration is ≥ 50 MW; Or**
- **If redeclaration is ≥ 5 MW during OP-4 conditions; Or**
- **Resource is being dispatched to alleviate a transmission constraint.**

Make the required notifications.

Instructions

The following are to be notified:

- ❑ Applicable LCC(s)
- ❑ Forecaster
- ❑ Operations Shift Supervisor
- ❑ Senior System Operator

Step 5.6 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Redeclared Eco Max will extend beyond the current shift; Or**
- **DE/DDE has requested a new forced reduction.**

Perform CROP.32002 Generation outages "Forced Outage".

Condition(s) to perform this section:

- **DE requested an increase of the Economic Minimum value and the request has been evaluated in accordance with CROP.36003 Commitment, De-Commitment, Self-Scheduling, and Self-Dispatch; Or**
- **DE requests to modify an existing Economic Minimum redeclaration to a lower value; Or**
- **DE requests to remove an Economic Minimum redeclaration; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 6 : Economic Minimum (Eco Min)

Notes

- Redeclaration of Eco Min for non-dispatchable generators is permitted in order to reflect the desired or forecasted output.
- Dispatchable generators should normally utilize the hourly intraday re-offer capability to modify their supply offers in order to be dispatched to their desired output levels.
- Redeclaration of Eco Min for a dispatchable generator is permitted for purposes of owner testing, auditing, emissions or other physical generator restrictions, or for reflecting the actual physical configuration of a combined cycle generator.
- A Self-Schedule flag must be applied when an Eco Min is increased for purposes of Owner Testing.
- When the Eco Min of a combined cycle generator is increased a Self-Schedule flag is only required if it is the initial Participant-initiated commitment (Self-Schedule) of that generator.
- A Self-Schedule flag is **NOT** required when an Eco Min is increased for emissions or other physical generator restrictions.
- NCPC is paid based on the Eco Min that is in place at the time a unit is committed, whether it is a Participant-initiated commitment or an ISO-initiated commitment. To ensure proper Settlement, modifications of Eco Min for purposes of auditing or owner testing must be identified correctly.
- The Eco Min for ESDs is automatically set at zero MW and it cannot be modified. The Eco Min is required to be set at zero MW for ESDs since ESDs must be able to be dispatched to any value between their Max Cons limit and their Eco Max limit.

Step 6.1

Primary Responsibility: Any Control Room Operator

Access the Unit Limits display for the applicable generator.

Step 6.2

Primary Responsibility: Any Control Room Operator

Enter the value in the Eco Min Redec column.

Standard(s) for completion:

- Redeclaration is performed for dispatchable generators that are owner testing, auditing, have emissions or other physical restrictions, or are reflecting the actual physical configuration of a combined cycle generator; Or
- Redeclaration is performed for a non-dispatchable generator.

Step 6.2.1

Primary Responsibility: Any Control Room Operator

Select the reason code.

Notes

- Redeclarations of Eco Min for auditing or owner testing purposes MUST use the reason code "OT", which stands for “Owner Testing”. This is required to ensure ISO Settlements processes the data correctly.
- For a solar resource, the reason code must be something other than PUSH or SOLA or RPLAN. This will prevent the reason code from being overwritten by the auto-redeclaration process.

Step 6.2.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Redeclaration entered for the Economic Minimum value is greater than the bid in value.**

Apply the Self Schedule flag.

Notes

Exceptions to application of Self Schedule flag are when Eco Min is being increased for emissions or other physical restrictions, and when a previously committed combined cycle generator is redeclaring Economic Minimum to reflect the actual physical configuration of the generator.

Step 6.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is to be removed.**

Remove the redeclaration value to return to bid.

Step 6.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If redeclaration is ≥ 50 MW; Or**
- **Generator is being dispatched to alleviate a transmission constraint.**

Log the redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Step 6.5 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If redeclaration is ≥ 50 MW; Or**
- **Generator is being dispatched to alleviate a transmission constraint.**

Make the required notifications.

Instructions

The following are to be notified:

- ❑ Applicable LCC(s)
- ❑ Forecaster
- ❑ Operations Shift Supervisor
- ❑ Senior System Operator

Condition(s) to perform this section:

- **System Reliability requires the Emergency Minimum to be redeclared; Or**
- **DE requests a redeclaration of the Emergency Minimum due to equipment stability or other operating limits; Or**
- **DE requests to remove an Emergency Minimum redeclaration; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 7 : Emergency Minimum (Emerg Min)

Step 7.1
Primary Responsibility: Any Control Room Operator

Access the Unit Limits display for the applicable generator.

Step 7.2
Primary Responsibility: Any Control Room Operator

Enter the value in the Emerg Min Redec column.

Step 7.2.1
Primary Responsibility: Any Control Room Operator

Select the reason code.

Notes

For a wind and solar powered generator, the reason code must be something other than WIND, SOLA, or RPLAN. This will prevent the reason code from being overwritten by the auto-redeclaration process.

Step 7.3
Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is to be removed.**

Remove the redeclaration value to return to bid.

Step 7.4
Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If redeclaration is ≥ 50 MW; Or**
- **Generator is being dispatched to alleviate a transmission constraint; Or**
- **Redeclared by ISO to prevent a CT shut down during Minimum Generation Emergency.**

Log the redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Condition(s) to perform this section:

- **Combined cycle generator is receiving DDPs below its 2 x 1 configuration Eco Min value and the DE has requested to NOT take the CT off-line; Or**
- **Combined cycle generator is receiving DDPs below 2 x 1 configuration Eco Min value and DE requests permission to shut down a CT to follow DDP; Or**
- **DE requests to start up an off-line CT to meet bid in parameters; Or**
- **Combined cycle generator is in a 1 x 1 configuration and the DE requests to start up the second CT; Or**
- **Combined cycle generator is in a 1 x 1 configuration and starting up the second CT at the request of the ISO; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 8 : Combined Cycle Redeclaration

Notes

This section is applicable to combined cycle generating assets that are modeled as a single generating asset and have a 2x1 Economic Maximum value and 1x1 Economic Minimum value.

Step 8.1

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Combined cycle generator is receiving DDPs below its 2 x 1 configuration Eco Min value and the DE has requested to NOT take the CT off-line.**

Respond to a request to Self-Dispatch or increase Eco Min in order to NOT shut down a CT.

Instructions

A Self Dispatch MW value is only allowed to be entered for:

- ❑ The current hour; Or
- ❑ Next hour if the Intraday reoffer period has closed.

Step 8.1.1

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **DE requests to Self-Dispatch to NOT shut down a CT.**

Utilize CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch to respond to this request.

Step 8.1.2

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **DE requests to increase an Eco Min to NOT shut down a CT.**

Utilize CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch to respond to this request.

Notes

Setting of a Self-Schedule flag is only required in this scenario if the additional CT is being started as part of the initial Self-Schedule request (i.e. from an off-line state). Meaning that if the generator was previously on-line then no additional Self-Schedule flags are required to be set.

Step 8.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Combined cycle generator is receiving DDPs below 2 x 1 configuration Eco Min value and DE requests permission to shut down a CT to follow DDP.**

Place the generator in a UCM 3 while the station shuts down one CT and redeclare the ISO Imposed Eco Max to the 1 x 1 Eco Max value.

Notes

The redec remains in place until one of the following conditions exist:

- The DE elects to restart a 2nd CT; Or
- ISO orders it back on for reliability

Step 8.2.1 Primary Responsibility: Any Control Room Operator

Enter a transitional ramp for the CT shut down in RTUC using CROP.35005 Dispatch using RTUC and UDS.

Step 8.2.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Shut down of CT has completed and DE has made the generator dispatchable.**

Place the generator in a UCM 4.

Step 8.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **DE requests to start up an off-line CT to meet bid in parameters.** ***Example: Bid in 1 x 1 Eco Min and Eco Max for HE 01 - 07 and 2 x 1 Eco Min and Eco Max for HE 08 - 24.***

Place the generator in a UCM 3 for the start up of the off-line CT.

Step 8.3.1 Primary Responsibility: Any Control Room Operator

Enter a transitional ramp for the CT start up in RTUC using CROP.35005 Dispatch using RTUC and UDS.

Step 8.3.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Start up of CT has completed and DE has made the generator dispatchable.**

Place the generator in a UCM 4.

Step 8.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Combined cycle generator is in a 1 x 1 configuration and the DE requests to start up the second CT.**

Utilize CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch to respond to this request.

Instructions

Enter the following redeclarations:

- ❑ 2 x 1 Eco Min
- ❑ 2 x 1 Eco Max, if bid in Eco Max was 1 x 1

Remove the following redeclarations:

- ❑ ISO Imposed Eco Max

Notes

Setting of a Self-Schedule flag is only required in this scenario if the additional CT is being started as part of the initial Self-Schedule request i.e. from an off-line state. Meaning that if the generator was previously on-line then no additional Self-Schedule flags are required to be set.

Step 8.4.1 Primary Responsibility: Any Control Room Operator

Enter a transitional ramp for the CT start up in RTUC using CROP.35005 Dispatch using RTUC and UDS.

Step 8.5 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Combined cycle generator is in a 1 x 1 configuration and starting up the second CT at the request of the ISO.**

Enter the applicable redeclaration.

Instructions

Enter the following redeclarations:

- ❑ 2 x 1 Eco Min
- ❑ 2 x 1 Eco Max, if bid in Eco Max was 1 x 1

Remove the following redeclarations:

- ❑ ISO Imposed Eco Max

Notes

The Forecaster will modify the existing CD or create a new CD that will capture the details of the ISO commitment request.

Step 8.5.1 Primary Responsibility: Any Control Room Operator

Enter a transitional ramp for the GT start up in RTUC using CROP.35005 Dispatch using RTUC and UDS.

Condition(s) to perform this section:

- **DE requests to Self-Schedule a generator at Eco Min and the request has been evaluated in accordance with CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch; Or**
- **DE requests to Self-Schedule a DARD pump at Min Cons and the request has been evaluated in accordance with CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch; Or**
- **DE requests to remove a Self-Schedule for a generator or DARD pump and the request has been evaluated in accordance with CROP.36003 Commitment, De-commitment, Self-Scheduling, and Self-Dispatch.**

Section 9 : Modify Self-Schedule flag

Notes

ESDgen and ESD_{DARD} must have their self-schedule flag set when they are on-line (any UCM other than UCM 1).

Step 9.1

Primary Responsibility: Any Control Room Operator

Access the resource's Limits display.

Step 9.2

Primary Responsibility: Any Control Room Operator

Set or remove the SS flag for the applicable hours.

Instructions

Guidance for when a Self Schedule flag is required to be applied:

- ESDs must have a self-schedule flag set whenever they are on-line (i.e. any UCM other than UCM 1)
- If a generator is returning to service POST tripping off-line, and the ISO does NOT require the generator to be on-line, all hours will be Self-Scheduled from the point of breaker closure
- If a generator WITHOUT any existing commitments requests to self schedule a block of future hours:
  - Dispatchable generators: all hours will be flagged as SS beginning with the hour the generator is expected to release for dispatch
  - Non-Dispatchable generator: all hours from the start of ramp (bkr close) would be flagged as SS
- If a generator WITH an existing commitment requests to self schedule a block of early start hours:
  - Dispatchable generators: SS flag is **NOT** required up to 4 hours; otherwise all additional hours that the generator will be released for dispatch will be flagged as SS
  - Non-Dispatchable generators: all additional hours from the start of ramp would be flagged as SS
  - Notification to the forecaster is still required to ensure the resource is added to the COP.
- If a generator is committed for reliability and can release for dispatch at a time that is greater than 4 hours prior to the expected release time, notify the Operations Shift Supervisor to determine if the SS flag should be applied. If a generator WITH an existing commitment releases for dispatch earlier than scheduled (up to 4 hours), then a SS flag is NOT required. Notification to the forecaster is still required to ensure the resource is added to the COP.
- If the request was for Owner Testing the SS flag is applied for the duration of the Owner Testing time period.

Condition(s) to perform this section:

- **ISO Imposed limit is required for system condition; Or**
- **An ISO Imposed limit needs to be removed; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 10 : ISO Imposed Limits

Notes

When there is a constraint that can be affected by only a single generator WITH an associated interface in ILC an ISO Imposed limit should NOT be used, the constraint should be activated and bound on in CLOGGER using CROP.34006 Clogger Transmission Constraints and EMSOUT.

Step 10.1

Primary Responsibility: Any Control Room Operator

Access the Unit Limits display for the applicable generator.

Step 10.2

Primary Responsibility: Any Control Room Operator

Enter the MW value in the applicable ISO Imposed column(s).

Step 10.2.1

Primary Responsibility: Any Control Room Operator

Select the reason code.

Notes

Auto-redeclarations will **NOT** write over an ISO Imposed reason code.

Step 10.3

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is to be removed.**

Remove the redeclaration value to return to bid.

Step 10.4

Primary Responsibility: Any Control Room Operator

Log the redeclaration and provide a reason.

Instructions

Use log entry: > GENERATION > Redeclarations

Condition(s) to perform this section:

- **DE has requested a redeclaration of Minimum Run Time; Or**
- **DE has requested a redeclaration of Minimum Down Time; Or**
- **DE has requested a redeclaration of Hot to Intermediate Time; Or**
- **DE has requested a redeclaration of Hot to Cold Time; Or**
- **DE has requested a redeclaration of Notification Times; Or**
- **DE has requested a redeclaration of Startup Times; Or**
- **DE requests to remove a Minimum Run Time, Minimum Down Time, Hot to Intermediate Time, Hot to Cold Time, Notification Time, or Startup Time redeclaration.**

Section 11 : Intertemporal parameter redeclarations

Notes

Generators

- The following have only a single entry for an operating day: "Min Run Time", "Min Down Time", "Hot to Int Time", and "Hot to Cold Time". For these parameters, “Tomorrow’s Bid” and “Tomorrow’s Redec” become “Today’s Bid” and “Today’s Redec” at midnight.
- The following have hourly entries: "Notification Times" (Hot, Intermediate, and Cold) and "Startup Times" (Hot, Intermediate, and Cold).

DARD pumps

- The following have only a single entry that stays in effect until removed: "Min Run Time" and "Min Down Time".

Step 11.1 Primary Responsibility: Any Control Room Operator

Determine the reason for the Unit Time redeclaration.

Notes

The intent is to determine if the redeclaration is being done for physical or licensing issues.

Step 11.1.1 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **The reason is NOT due to a physical or licensing issue.**

Determine if the redeclaration can be accepted.

Notes

A Unit Time redeclaration will be allowed as long as it does **NOT** create or worsen a reliability issue.

Step 11.2 Primary Responsibility: Any Control Room Operator

Access the applicable Time Data display for the applicable generator or DARD pump.

Step 11.3 Primary Responsibility: Any Control Room Operator

Enter the value in the applicable well.

Instructions

Generators

- ❑ Per ISO-NE Market Rule 1, the Minimum Run Time for a generating resource cannot exceed 24 hours. Do **NOT** enter a redeclaration of Minimum Run Time greater than 24 hours.

DARD pumps

- ❑ The Minimum Run Time and Minimum Down Time cannot exceed one hour. The software will prevent entry of anything greater than 1.

Notes

- Redeclaration of any time value can have the effect of a generator transition from Fast Start status to non-Fast Start status, or vice versa.
- Redeclaring the Minimum Run Time or Minimum Down Time will have an effect on the remaining Minimum Run or Minimum Down Time calculations in EMS.

Step 11.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **DE extends the Minimum Run Time for an on-line generator and is NOT Self Scheduled for the remaining hours to meet the redeclared Minimum Run Time; Or**
- **DE extends the Minimum Run Time for an on-line DARD pump and is NOT Self Scheduled for the remaining hours to meet the redeclared Minimum Run Time.**

Set the SS flag for the applicable hours based on guidance in Section 9.

Step 11.5 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is to be removed.**

Remove the redeclaration value to return to bid.

Step 11.6 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If any OP-4 action is declared.**

Log the redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Step 11.7 Primary Responsibility: Any Control Room Operator

Notify the Senior System Operator, Operations Shift Supervisor, and Forecaster of the redeclaration or return to bid.

Condition(s) to perform this section:

- **DE has requested to LEG a generator or an ESD_{gen}; Or**
- **DE requests to remove a LEG redeclaration.**

Section 12 : Limited Energy Generation (LEG)

Notes

- ISO should deny any LEG Redec that would override a start up instruction.
- The generator is expected to comply with all dispatch instructions until the LEG Redec is approved.

Step 12.1 Primary Responsibility: Any Control Room Operator

Access the LEG/Posture display for the applicable generator.

Step 12.2 Primary Responsibility: Any Control Room Operator

Verify a Max Daily Energy value is present.

Notes

A LEG value can only be declared if a Max Daily Energy value of ≥ 0 is bid in and is present.

Step 12.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is being entered and a Max Daily Energy value is present.**

Enter a value.

Step 12.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is to be removed.**

Remove the redeclaration value to return to bid.

Condition(s) to perform this section:

- **DE has requested a Regulation redeclaration.**

Section 13 : Regulation High or Regulation Low redeclarations

Step 13.1 Primary Responsibility: Any Control Room Operator

Refer to CROP.35002 Regulation.

Condition(s) to perform this section:

- **DE has requested a redeclaration of a Manual Response Rate; Or**
- **DE requests to remove a Manual Response Rate redeclaration.**

Section 14 : Manual Response Rate (MRR) redeclarations

Step 14.1

Primary Responsibility: Any Control Room Operator

Access the Unit MRR or DARD MRR display.

Step 14.2

Primary Responsibility: Any Control Room Operator

Enter a value (single response rate) or a set of values (multiple response rates).

Instructions

- ❑ Zero MW is the starting point for a response rate. The MW value entered into the Segment MW well is the end point for that MRR.
- ❑ From Economic Minimum to the Segment 1 MW uses the Segment 1 MRR. From Segment 1 MW to Segment 2 MW uses the Segment 2 MRR.
- ❑ Perform the following to enter a single MRR [multiple MRR to single MMR or single MRR to single MRR]:
  - ❑ Starting in the Segment 1 or Single RR column
  - ❑ Enter the MW value for the first range
  - ❑ Enter the MRR value
  - ❑ Set the flag in the check box to the right of the segment
  - ❑ Click the Save button
- ❑ Perform the following to enter a MRR redeclaration for one segment without modifying all of the offered MRR segments:
  - ❑ Start in the segment that is to be redeclared
  - ❑ Enter the MW value for the first range
  - ❑ Enter the MRR value
  - ❑ Set the flag in the check box to the right of the final segment
  - ❑ Click the Save button
- ❑ Perform the following to enter a multiple MRR:
  - ❑ Starting in the Segment 1 or Single RR column
  - ❑ Enter the MW value for the end of that range
  - ❑ Enter the MRR value
  - ❑ Repeat 2 and 3 until all MRR segments have been entered
  - ❑ Set the flag in the check box to the right of the final segment
  - ❑ Click the Save button

Notes

ESDs have only one ESD_{gen} response rate and one ESD_{DARD} response rate.

Step 14.3

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Return the response rate to bid.**

Remove the redeclaration value to return to bid.

Step 14.4 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Generator or DARD pump is being dispatched to alleviate a transmission constraint.**

Log the redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Step 14.5 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Generator or DARD pump is being dispatched to alleviate a transmission constraint.**

Notify the Security Operator, Senior System Operator, and Operations Shift Supervisor of the redeclaration or return to bid.

Condition(s) to perform this section:

- **DE has requested a redeclaration of a Claim 10 or 30 value; Or**
- **DE requests to remove a Claim 10 or 30 redeclaration.**

Section 15 : Claim 10 or Claim 30 redeclarations

Step 15.1

Primary Responsibility: Any Control Room Operator

Access the Unit or DARD Claim 10&30 display.

Step 15.2

Primary Responsibility: Any Control Room Operator

Enter a value.

Instructions

- ❑ Enter the Claim 10 redeclaration in the CL10 Redec column
- ❑ Enter the Claim 30 redeclaration in the CL30 Redec column

Step 15.3

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Remove a redeclaration**

Remove the redeclaration value to return to bid.

Step 15.4

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **If any OP-4 action is declared.**

Log the redeclaration.

Instructions

Use log entry: > GENERATION > Redeclarations

Step 15.5

Primary Responsibility: Any Control Room Operator

Notify the Security Operator, Senior System Operator, Operations Shift Supervisor, and Forecaster of the redeclaration or return to bid.

Condition(s) to perform this section:

- **DE requests a Maximum Consumption redeclaration; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages.**

Section 16 : Maximum Consumption (Max Con) redeclaration

Step 16.1 Primary Responsibility: Any Control Room Operator

Access the resource's Limits display.

Step 16.2 Primary Responsibility: Any Control Room Operator

Enter the reason code.

Notes

For ESDs, the reason code must be something other than "ESD"

Step 16.2.1 Primary Responsibility: Any Control Room Operator

Enter the new value in the Max Cons Redec column.

Step 16.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is being removed.**

Remove the redeclaration value to return to bid.

Condition(s) to perform this section:

- **DE requests a Minimum Consumption redeclaration; Or**
- **Directed to perform redeclaration I.A.W CROP.32001 Transmission Outages**

Section 17 : Minimum Consumption (Min Con) redeclaration

Notes

The Min Con for ESDs is automatically set at zero MW and it cannot be modified. The Min Con is required to be set at zero MW for ESDs since ESDs must be able to dispatched to any value between their Max Con and their Eco Max limit.

Step 17.1 Primary Responsibility: Any Control Room Operator

Access the DARD Limits display.

Step 17.2 Primary Responsibility: Any Control Room Operator

Enter the value in the Min Cons Redec column.

Step 17.3 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **A value is being removed.**

Remove the redeclaration value to return to bid.

Condition(s) to perform this section:

- **A generator or DARD pump parameter needs to be changed and more than one 5 minute pricing interval has elapsed; Or**
- **A generator or DARD pump parameter redeclaration was requested and more than one 5 minute pricing interval has elapsed prior to entry: Or**
- **A SS flag was set in the last 5 minutes of the hour and should have been set in an earlier 5 minute pricing interval.**

Section 18 : Corrections to a redeclaration

Step 18.1 Primary Responsibility: Any Control Room Operator

Log the Correction to Redeclaration.

Instructions

Use log entry: > GENERATION > Correction To Redecs

Notes

The Forecaster will make the appropriate changes in GDMA.

Condition(s) to perform this section:

- **The Re-Offer period for the next operating day has closed (1400).**
- **Requested by the Forecaster to perform a redeclaration prior to 1400**

Section 19 : Next Day Redeclarations

Notes

- This Section is performed after the Re-offer period for the next operating day has closed and is completed by 1600 so the Forecaster will have accurate information while running a case.
- The Control Room Operator may make redecs prior to 1400 at the request of the Forecaster for the following:
  - A redeclaration for a Resource that is physically unavailable in the next operating day
  - A redeclaration for a Resource is required that has a corresponding generation application in CROW, **as confirmed by contacting the Designated Entity**
  - The Forecaster requests the modification of the "Initial State" radio button for a unit that has cleared in the DAM

Step 19.1

Primary Responsibility: Any Control Room Operator

Access the Unit Reductions Report from the Outage Scheduling software.

Instructions

- ❑ Click "Reports";
- ❑ Select "Generation";
- ❑ Select "Unit Reductions Report";
- ❑ Verify Report Format is set to "Excel";
- ❑ Verify Date Range is selected to "Tomorrow";
- ❑ Click "Generate" to create the report.

Step 19.2

Primary Responsibility: Any Control Room Operator

Access Unit Generation/DARD Redeclaration report in OIS.

Instructions

- ❑ From the Control Room home page, click "Primary OIS" or "Secondary OIS"
- ❑ Click the "Unit Redeclaration" button

Step 19.3

Primary Responsibility: Any Control Room Operator

Compare the values in the applicable RTGEN display to the values in the reports accessed in the two preceding steps to identify differences.

Step 19.4

Primary Responsibility: Any Control Room Operator

Review the Unit Limits for all non-dispatchable (UCM 3) generators to verify the Eco Max and Eco Min values are equal.

Step 19.5

Primary Responsibility: Any Control Room Operator

Condition(s) to perform this step:

- **Differences are identified from the Unit Generation/DARD report in OIS; Or**
- **There is a difference between Resource bid in values and the Outage Scheduling Software.**

Contact the DE to determine which limits should be populated.

Step 19.6

Primary Responsibility: Any Control Room Operator

Enter the applicable value per the applicable section of this CROP.

Condition(s) to perform this section:

- **An off-line resource was improperly placed in an on-line UCM; Or**
- **An on-line resource was improperly placed in an off-line UCM.**

Section 20 : Correct the "Current State" and On/Off times for a resource.

Notes

- Changing a resource's UCM from an off-line value to an on-line value will update the “On” time for that resource.
- Changing a resource's UCM from an on-line value to an offl-ine value will update the “Off" time for that resource.
- For a generator, the "Unit Off" date and time is used in conjunction with the "Hot to Int Time" and "Hot to Cold Time" to determining the "Current State" of the generator.
- The "Current State" for a generator impacts commitment decisions in Real-Time and Day Ahead.

Step 20.1 Primary Responsibility: Any Control Room Operator

Notify the Senior System Operator and the Operations Shift Supervisor of the incorrect UCM change

Step 20.2 Primary Responsibility: Any Control Room Operator

Determine when the resource last came off-line or on-line, as applicable.

Instructions

This can be determined by:

- ❑ Using PI searching on the resource to identify UCM changes, breaker open, or breaker closure time
- ❑ Using the Alarm Viewer and searching on the EMS ID to identify UCM changes, breaker open, or breaker closure time
- ❑ Contacting the DE and inquiring when (date and time) they shut down last or last closed breaker for startup

Step 20.3 Primary Responsibility: Any Control Room Operator

Modify the "Unit On" and "Unit Off" times for a generator so that the "Current State" is correct.

Standard(s) for completion:

- The indicated "Current State" is correct for the actual state of the resource.

Instructions

- ❑ Enter the date and time with the format of MM/DD/YY HHMM:SS (24 hour time).
- ❑ If today’s date will be used, enter the previous day’s date

Notes

- Due to MDB software limitations if the date that will be entered is within todays date, the MDB will NOT recognize the change. To account for this limitation, the previous day’s date will need to be entered.
- For a resource in a UCM 1 or 2 the ” On" date and time must be occur before the ” Off" date and time.

Step 20.4 Primary Responsibility: Any Control Room Operator

Notify the Senior System Operator and the Operations Shift Supervisor that the actions to correct the error have been completed.

Condition(s) to perform this section:

- **A DRR threshold alarming value needs to be modified.**

Section 21 : DRR Threshold Alarming modification

Step 21.1 Primary Responsibility: Operations Shift Supervisor

Access the DRR Limits display.

Step 21.2 Primary Responsibility: Operations Shift Supervisor

Enter an updated value.

Notes

- The Threshold Alarming parameters are global.
- The Unavailable (MW) is compared to SCC for alarming.

Condition(s) to perform this section:

- **The status of the "Disabled" flag for a DRR needs to be modified; Or**
- **DDE requests the DRR resource be placed out-of-service.**

Section 22 : Modify the "Disabled" flag for a DRR.

Step 22.1 Primary Responsibility: Any Control Room Operator

Access the DRR Limits display.

Step 22.2 Primary Responsibility: Any Control Room Operator

Condition(s) to perform this section:

- **If a "Disabled" flag needs to be set**

Set the Reason Code for the "Disabled" flag for the applicable hours.

Step 22.3 Primary Responsibility: Any Control Room Operator

Set or remove the "Disabled" flag for the applicable hours.

Step 22.4 Primary Responsibility: Any Control Room Operator

Log the change to the "Disabled" flag status.

Instructions

Use log entry:

- ❑ > GENERATION > DRR > Disabled Flag Set; Or
- ❑ > GENERATION > DRR > Disabled Flag Removed

Revision History

Rev. No.	Date (MM/DD/YY)	Reason	Contact
--	01/08/20	For previous revision history, refer to Rev 22 available through Ask ISO	Steven Gould
23	04/22/20	Added Attachment 2 – Redeclaration Summary	Steven Gould
24	04/28/20	Deleted ESD auto redeclaration information which was moved to CROP.36005	Steven Gould
25	06/23/20	Added Condition to Perform and Notes to Section 19	Steven Gould
26	11/17/20	Added note to section 10 concerning ISO Imposed redecs on a radial generator.	Steven Gould
27	04/28/21	Modified Conditions to enter for Sections: 2, 5, 6, 7, 8, 10, 16 & 17. Modified Section 2. Added Step 5.6	Steven Gould
28	05/24/21	Updated guidance on when Self-Schedule flag is required, added note to Step 8.1.2, Updated Step 8.4 and 8.5	Steven Gould
29	08/02/21	Updated: references, background information for Solar Auto Redecs, Common Procedure Information, Section 4 for auto redec parameters, Section 3 to include ESDs and Attachment 2. Reformatted TOC	Steven Gould
30	07/25/23	Periodic review, Updated personnel titles in Section 4, Removed Condition to Enter in Steps 5.2, 6.2, 7.2, 11.3, 14.2, 16.2, 17.2; Fixed formatting in Step 10.2; Made the instruction part of the Step in 1.2; Added instructions and fixed formatting in Step 2.2.1; Updated Note in Stp 4.3.	Jonathan Gravelin
31	10/26/23	Background section updated for change to Solar Auto Redec. Added Solar to Step 7.2.1. Attachment 2 updated for changes to Solar parameters	Jonathan Gravelin
32	01/02/24	Procedure Background updated for deletion of Solar Auto Redec information which was moved to CROP.34013; Updated Notes to Section 5 & 6, Added Instructions to Steps 19.1 & 19.2; Added Condition to Enter in Step 19.5 and Section 18	Jonathan Gravelin

Attachment 1 - Unit Control Modes

UCM	Definition	Eligibility	Special Functions
1	Resource is off-line and unavailable	Resource that is tripped off-line. Resource that is out-of-service for physical reasons. Resource that is off-line and **NOT** meeting their scheduled output	The EMS Reserve Monitor will count 0 MW of Operating Reserve capability. The EMS Capacity Analysis application will consider the resource as Off-line, Unavailable Capacity. UDS will **NOT** recognize the resource as Fast Start capable and will **NOT** issue fast Start recommendations.
2	Resource is off-line and available	Resource that is off-line economically with ISO approval. Generator that is Postured off-line.	Note: UCM 2 does not apply to ESDs. The EMS Reserve Monitor will recognize the UCM 2 and count Operating Reserve on the Fast Start Capable resources based reserve eligibility flags and current Claim 10/30 values The EMS Capacity Analysis application will recognize the UCM 2 and consider the resource to be available based on current start-up and notification times. UDS will recognize Fast Start Capable resources as available for Fast Start dispatch recommendation.
3	Resource is on-line, **NOT** dispatchable	Generator that is on-line in the start-up or shut down mode On-line Generator that is auditing or testing (with exception of Claim 10 / Claim 30 and MRR demonstrations). On-line non-dispatchable Generator that has Eco Max = Eco Min. On-line Do Not Exceed Dispatchable Generator (DDG) that has informed the ISO Control Room that they are unable to follow a DNE limit.	Note: UCM 3 is **NOT** applicable to DRRs Sets a flag in the UDS software that makes the Eco Max = Eco Min = State Estimator MW (SEMW). UDS will derive a DDP equal to the Generator's current SEMW value. The EMS Reserve Monitor will calculate all types of reserve (TMSR, TMNSR and TMOR) for UCM3 generators as 0 MW. The EMS Reserve Monitor will calculate TMSR for an on-line DARD equivalent to the current MW of consumption. The EMS Capacity Analysis application will calculate capacity equal to the current MW output of the Generator. Any additional capacity above the current output will be counted as an on-line reduction Used to prevent shutdowns of a DARD pump.

UCM	Definition	Eligibility	Special Functions
4	Resource is on-line and dispatchable	Generator or DARD pump that is on-line and has released for dispatch. ESD_{gen} and ESD_{DARD} that is capable of receiving and responding to setpoints. On-line Generator that has Eco Max > Eco Min. however, Fast Start Generators can have Eco Max = Eco Min and be in UCM 4. On-line Do Not Exceed Dispatchable Generator (DDG) On-line DARD that has Min Cons $\leq$ Max Cons. On-line DRR	The EMS Reserve Monitor will calculate Operating Reserve for the Generator based on reserve eligibility flags, current Eco Max, and current Manual Response Rate(s). The EMS Reserve Monitor will calculate TMSR for an on-line DARD equivalent to the current MW of consumption. The EMS Reserve Monitor will calculate Operating Reserve for the DRR based reserve eligibility flags, current Max Reduction, and current Manual Response Rate. The EMS Capacity Analysis application will count the Generator's capacity to its Eco Max, the DRR's capacity to its Max Reduction, and will limit the DARD capacity to its Min Cons. UDS will derive a DDP between its effective Eco Min / Min Cons and Eco Max / Max Cons. If the Generator is outside of its declared limits, the UDS will develop a DDP that is consistent with its offered Eco Min and Eco Max, subject to the generator's MRR. Do Not Exceed Limit Calculator (DLC) will derive a Do Not Exceed (DNE) Limit between a DDG's Eco Min and RTHOL subject to economics and reliability constraints.
5	Posture an on-line generator or DARD pump to maintain reliability (capacity or reserves) or to provide VAR support **NOT** applicable to DRRs	Generator or DARD that is on-line and has a Posture MW value for the current hour.	The EMS Reserve Monitor application will calculate Operating Reserve for the Generator based on its current Eco Max and Manual Response Rate(s). The EMS Reserve Monitor will calculate TMSR for an on-line DARD equivalent to the current MW of consumption. UDS will utilize the current Posture MW value for a generator as its maximum dispatch limit and will utilize the current Posture MW value for a DARD as its minimum dispatch limit. CD SPD ignores Posture MW values for both generators and DARDs.
6	Generator is Regulating **NOT** applicable to DRRs	Generator is on-line and available for and providing Regulation.	Note: UCM 6 does not apply to DARD, ESD_{gen}, ESD_{DARD}, or DRR. The EMS Reserve Monitor will calculate Operating Reserve for the Generator based on its current Eco Max and Manual Response Rate(s). The EMS Capacity Analysis application will count the Generators capacity to its Eco Max UDS will calculate Operating Reserve for the Generator based on its current Eco Max and Manual Response Rate(s).

Attachment 2 – Redeclaration and Intraday Re-Offer Summary

Resource Type Legend

G	Conventional Generator
W	Wind DDG
H	Hydro DDG
DARD	Dispatchable Asset Related Demand
DRR	Demand Response Resource
ATRR	Alternative Technology Regulation Resource
E	Energy Storage Device (ESD)/Continuous Storage Facility (CSF)
S	Solar

Physical Parameter Updates

Type	**Parameter**	**System Operator Entered**	**Participant Entered**	**Auto-Redec**
Limits	RTHOL	G, W, H, E, S		W, S
	EcoMax/MaxRed/MaxCons	G, W, H, DARD, E, S	DRR	W, H, E, S
	EcoMin/MinRed/MinCons	G, W, H, DARD, S	DRR	
	EmergMin	G, W, H, S		
	Claim10/30	G, DARD	DRR	
	Reg High	G	A, E	
	Reg Low	G	A, E	
Times	Notification	G, W, H, S		
	Startup	G, W, H, S		
	Min Run	G, W, H, DARD, S		
	Min Down	G, W, H, DARD, S		
	Hot to Inter	G, W, H, S		
	Hot to Cold	G, W, H, S		
Ramp Rates	Manual (MRR)	G, W, H, DARD, E, S	DRR	
	Automatic (ARR)	G	ATRR , E	
Status	Unavailable	G,W,H,DARD,DRR,E,S	DRR	
	Regulation Availability	G, ATRR, E	ATRR , E	E

Financial, Limited Energy, and Availability Status Parameter Updates

Type	**Parameter**	**System Operator Entered**	**Participant Entered**	**Auto-Redec**
Costs/Offers	Startup		G, W, H, S	
	No Load		G, W, H, S	
	Energy Price Pairs		G, W, H, S, DARD, E	
	Regulation Capacity		G, ATRR, E	
	Regulation Service		G, ATRR, E	
Limits	Self-Dispatch	G, W, H, S, E		
	LEG	G, E		
	Max Daily Energy	G, DARD, E		
Status	Self-Scheduled	G, W, H, DARD, S		
	Economic	G, W, H, DARD, S		