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References

1. CROP.27002 Manual Dispatch
2. CROP.34006 Clogger Transmission Constraints and EMSOUT
3. CROP.35005 Dispatch Using RTUC and UDS

Procedure Background

Generators participating in DNE Dispatch include ~~and~~ wind and solar generators as well as intermittent hydro resources. This set of resources is referred to as DNE Dispatchable Generators (DDGs).

A System Operator shall only accept a Redeclaration from the Designated Entity (DE). Control Room Staff accepting a Redeclaration shall request and verify the Generator or DARDs Asset ID to ensure the Redeclaration is made for the correct Generator or DARD.

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.

Real Time High Operating Limit (RTHOL) ~~it~~ is the maximum output that could be achieved given ideal/~~solar~~ conditions that takes into account any equipment outages associated with the resource.

Wind High Limit/Solar High Limit(WHL/SHL) – current output capability given current ~~wind~~ conditions that takes into account any equipment outages associated with the resource.

Summary of Wind/Solar Plant AutoRedeclaration Process (WIND, SOLA or RPLAN)

CROP.34013 Do Not Exceed Dispatchable Generation

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DDGs will receive a Do Not Exceed (DNE) Limit on their RTU. This DNE value is **NOT** to be exceeded, but a DDG can operate freely anywhere between its Eco Min (or Emergency Min when applicable) and its DNE.

DNE Limit Calculator (DLC) runs every five minutes and after every UDS or CD SPD approval to complete the following

- Retrieve all the predefined data set from the MDB
- Retrieve all the predefined data from the last RTUDS solution including the selected reference case ID
- Retrieve the RTNET data through the last SE files
- Retrieve the RTUDS active constraint data
- Solve the robust optimization problem for DDGs' DNE limits
- Pass the solution data to MDB for storage and Operator's review
- Approve the case and archive the case data

Electronic Dispatch executes periodically every five minutes to issue the latest DDPs including the DDG's DNE limits. Although Electronic Dispatch executes every five minutes, it also checks periodically, every twenty seconds, for whether a new RTUDS/STUDS/CD SPD case has been approved to issue new DDPs including the DDG's' DNE limits have become available since the last five minute issuance. If DDPs, including DNE limits, are updated, the new DDPs will be issued; otherwise DDPs will NOT be reissued until the next five minute cycle.

On-line DDGs are typically in a UCM 4. While in a UCM 4, DLC will derive a DNE Limit between a DDG's Eco Min and the lower of either the RTHOL, or ISO Imposed Eco Max subject to economics and reliability constraints. DDG's should remain in UCM 4 regardless of fuel supply unless there are equipment problems. If the DDG is not operating due to fuel supply the DE should redeclare the Eco Min to zero to allow the unit to operate from to zero DNE.

On-line DDGs that have informed the ISO Control Room they are unable to follow a DNE limit or need to be manually dispatched should be placed in a UCM 3.



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Step 1.1.3 PrimaryResponsibility: Any Control Room Operator

Condition(s) to perform this step:

- Wind DDG DE identified the WHL telemetered value is NOT accurate; Or
- Solar DDG DE identified the SHL telemetered value is NOT accurate: Or
- Wind/Solar DDG DE identified the forecastvale stæ

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Condition(s) to perform this section:

- DLC case parameters need to be modified prior to next execution
- Manual execution and approval of a DLC case is required; Or
- There are indications of a failed DLC case.

Section4 : Manual execution and approval of a DLC case

Notes

- DLC is set to auto

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Step 4.3.2 Primary Responsibility: Loader Operator

Approve the DLC case.

Notes

Approval of a manually executed DLC case will reinitialize the automatic execution and approval process.

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Condition(s) to perform this section:

- DNE limit for a DDG appears to be abnormally low and operation at a higher value can be permitted without a reliability issue.

Section5 : Respond to indications of an abnormally low DNE Limit

Step5.1 Primary Responsibility: Loader Operator
Notify the Operations Shift Supervisor and Senior System Operator.

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Step5.2 Primary Responsibility: Loader Operator

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Condition(s) to perform this section:

- Red Failed Case State on DLC display; Or
- Red highlighting of the DLC Control button on the UDS display

Section 7 : DLC Issue

Notes

- If DLC fails or stops running, the last approved DNE values would continue to be sent out via ED until the point those last approved DNE values are “stale” (set to 20 minutes after approval).
- If the last approved DNE values are determined to be stale, the default DNE values would be sent out via ED.
- Default DNE limits are set to be equal to the minimum of: UDS DDP, current ISO Used Eco Max, or current RTHOL

Step 7.1 Primary Responsibility: Loader Operator

Perform actions in [Section 4](#) to execute and approve a new DLC case.

Step 7.2 Primary Responsibility: Loader Operator

Condition(s) to perform this step:

- DLC is still in a failed state after at least three UDS case approvals
- DLC is still in a failed state after manual execution.

Notify IT On Call Technician of the DLC issue.

Step 7.2.1 Primary Responsibility: Loader Operator

Log the DLC issue and the actions taken.

Instructions

Use log entry: > EQUIPMENT FAILURE > DLC failure/malfunction

Step 7.2.2 Primary Responsibility: Loader Operator

Perform manual dispatch of DDGs using [CROP.25007 Manual Dispatch](#).

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