



Generation Resource Cold Weather Preparation

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System Operations Subcommittee

September 2, 2021

Pre-Winter
Reactive
Capability
Verification

Cold Weather
Checklist

Seasonal Fuel
Inventory and
Emissions
Survey

Generator
Minimum
Operating Limit
Survey

Cold Weather
Exercise

RF / SERC Joint
Webinar on Cold
Weather
Preparedness

NERC Webinar

Generating Unit Reactive Capability Verification

- Pre-Winter Review: From October 1 through October 31
- Generation Owners review their unit reactive capabilities in eDART
- Update D-curves as necessary
- Provide acknowledgement via eDART

Cold Weather Preparation Guideline and Checklist

- Provides generators with a guide to prepare units for cold weather operation
- Based on Manual 14-D, Attachment “N”
- Survey in eDART
 - Starting November 1st and ending on December 15th
 - Option of using the PJM or equivalent checklist

Seasonal Fuel Inventory and Emissions Survey

- Required for reliable operations planning purposes
- Focused on fuel supply and delivery details, fuel inventory and emissions limitations
- Enhance PJM situational awareness in preparation for severe weather
- Survey open in eDART mid-October through mid-November

Generating Facility Minimum Operating Temperature Survey

- Based on joint NERC/FERC report on MISO cold weather event in January 2018 and ERCOT preliminary findings from February 2021
- Focused on specific generating units limitations, such as ambient temperatures
- Survey reopened 6/14/21 to collect additional data for renewable resources and those recently placed in service - analysis is ongoing

Report Links:

https://www.nerc.com/pa/rrm/ea/Documents/South_Central_Cold_Weather_Event_FERC-NERC-Report_20190718.pdf

http://www.ercot.com/content/wcm/key_documents_lists/225373/2.2_REVISIED_ERCOT_Presentation.pdf

PJM no longer facilitating a formal exercise

Generation resources asked to self-schedule for testing

- Day-ahead preferred, real-time acceptable with proper notice to PJM dispatch
- During month of December
- Temperature forecast below 35 degrees
- Informational eDART ticket with cause “Cold Weather Preparation Exercise”
- See Manual 14-D, Section 7.5.1 for details

RF / SERC Winter Prep Webinar

- Joint effort between RF and SERC
- Held on August 24, 2021 – 0900 to 1230
- Preparation for the upcoming winter weather
- Recorded presentation link:
 - <https://serc1.webex.com/serc1/lr.php?RCID=b7297ce99bf803591f7c14100531d6ee>
- Link to posted materials
 - <https://www.serc1.org/outreach/events-calendar/event-details?id=4ff5b824-0bed-4fe5-bc1a-2d7883de9d23>

NERC Winter Prep Webinar

- Scheduled for 9/2/21 – 1330 to 1600 EPT
- Preparation for the upcoming winter weather, including:
 - Lessons Learned
 - Reliability Guideline: Generating Unit Winter Weather Readiness
 - 2020-2021 winter items of interest

Facilitator:
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