

Generation Resource Cold Weather Preparation

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Summary of Activities

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 early October through mid-November

Periodic Survey: Min. Operating Temperature

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
- In addition to RF & SERC, presentations by many entities including:
 - NERC, MISO, TVA, NAGF, NAES, El Paso Electric

Link to posted materials:

<https://www.serc1.org/outreach/events-calendar/event-details?id=4ff5b824-0bed-4fe5-bc1a-2d7883de9d23>

Webinar recording:

<https://serc1.webex.com/serc1/lsr.php?RCID=b7297ce99bf803591f7c14100531d6ee>

NERC Winter Prep Webinar

- Preparation for the upcoming winter weather, including:
 - Generator failure modes and mechanisms
 - Winter reliability assessment
 - Natural gas and electrical operation coordination considerations

Webinar Slides:

https://www.nerc.com/pa/rrm/Webinars%20DL/Winter_Weather_Webinar_02SEP2021_final.pdf

Webinar Recording:

<https://nerc.webex.com/recordingservice/sites/nerc/recording/b195f2e0ee41103997710050568c9e65/playback>



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Generation Resource Cold Weather Preparation

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