

# **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	WEEKLY Fuel Inventory and Supply Data Request
Generator Minimum Operating Limit Survey	Cold Weather Exercise	RF / SERC Joint Webinar on Cold Weather Preparedness	NERC Webinar



#### **Pre-Winter Reactive Capability Verification**

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 Checklist**

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 15<sup>th</sup>
  - Option of using the PJM or equivalent checklist



## Seasonal Fuel Inventory and Emissions Survey

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



## Weekly Fuel Inventory and Supply Data Request

WEEKLY Fuel Inventory and Supply Data Request

- Required for reliable operations planning purposes and enhanced PJM situational awareness
- Focused on fuel supply and delivery details, and fuel & non-fuel consumable inventory for coal and oil resources only (including dual-fuel units)
- A new data request will be issued each Monday, starting October 11 through February 28.
- Each data request will remain open from Monday to the following Sunday.



# 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\_REVISED\_ERCOT\_Presentation.pdf



**Cold Weather Exercise** 

# 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 for Severe Cold Weather Webinar

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 for Severe Cold Weather Webinar -

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

9/2/21





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