

Cold Weather Preparation

System Operations Subcommittee
September 5, 2019

Pre-Winter
Reactive
Capability
Verification

Cold Weather
Checklist

Seasonal Fuel
Inventory and
Emissions Survey

Periodic Survey –
Generating Facility
Min Operating
Temperature

Cold Weather
Exercise

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

- Based on joint NERC/FERC report on MISO cold weather event in January 2018
- Focused on specific generating units limitations, such as ambient temperatures
- Survey to be initiated in eDART
 - Independent of Seasonal Fuel & Emissions Survey
 - Open from 12/1/19 – 4/1/20

Report Link: https://www.nerc.com/pa/rrm/ea/Documents/South_Central_Cold_Weather_Event_FERC-NEERC-Report_20190718.pdf

Allow units to identify and correct start-up, operational, and fuel switching issues prior to cold weather operations

Compensation for non-CP generators only

Eligibility

Non-eligible units are still encouraged to self-schedule to verify cold weather operation

Unit type is not nuclear or renewable

Unit has not operated on primary or alternate fuel for 8 weeks prior to November 1st

Unit, as modeled in Markets Gateway, did not clear any Capacity Performance MWs for the 2019/2020 BRA

NERC Winter Prep Webinar

- Scheduled for Thursday, 9/5 from 1400-1500 EPT
- Preparation for the upcoming winter weather, including:
 - Lessons Learned
 - Recently released FERC/NERC South Central Cold Weather Event report
 - 2018-2019 winter items of interest

Appendix

- Logistics
 - PJM will provide list of eligible generators by November 10th
 - By November 20th, Generation Owners should identify units they have chosen to participate in the winter exercise, including:
 - Preferred and alternate dates/times
 - Fuel that the unit will operate on during the exercise
 - Minimum MW and run time for the exercise. (If different from Markets Gateway parameters provide justification)
 - Winter exercise period starts December 1st and runs through December 31st

- Logistics (cont'd)
 - eDART ticket should be submitted with cause code “Cold Weather Preparation Exercise”
 - PJM will cancel exercises in advance, by 1000 EPT the day prior of a scheduled exercise if:
 - Proper schedule is not available in Markets Gateway
 - Projected temperature is above 35 degrees in TO zone unit is located
 - Reliability issues are identified
 - Testing will be performed Tuesday through Friday and limited to 1000 MW/day
 - Test results shall be reported within 5 business days following exercise using PJM provided form