Cold Weather Preparation

System Operations Subcommittee
September 5, 2019
Summary of Activities

- 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

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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 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\textsuperscript{th}
• 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
Periodic Survey: Min. 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

Cold Weather Exercise

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

Compensation for non-CP generators only

Unit type is not nuclear or renewable

Eligibility

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

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

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

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**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
Cold Weather Exercise

• 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
Cold Weather Exercise

• 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