Cold Weather Preparation

System Operations Subcommittee
September 6, 2018
Summary of Activities

- Pre-Winter Reactive Capability Verification
- Cold Weather Checklist
- Seasonal Fuel Inventory and Emissions Survey
- 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 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 15th
  – Option of using the PJM or equivalent checklist
Seasonal Fuel Inventory and Emissions Survey

• Required for reliable operations planning purposes
• Baseline of fuel supply and reserves ahead of winter season
• Enhance PJM situational awareness in preparation for severe weather
• Focused on fuel supply and delivery details (primary and alternate fuel), fuel inventory and emissions limitations
• Available in eDART October 8th and will end on November 16th
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
• Eligibility
  – 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 2018/2019 BRA
• Non-eligible units are still encouraged to self-schedule to verify cold weather operation
Winter Prep for Severe Cold Weather Webinar

• NERC-hosted webinar
  – Scheduled for Thursday, 9/6 from 1400-1500 EPT
  – Provide industry reports and material in preparation for the upcoming winter weather
  – Provide an overview of reference materials including:
    • Lessons Learned
    • Updated training packages
    • Preliminary 2018-19 North America Winter Reliability Assessment.
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