

## **Generation Resource Cold Weather Preparation**

Vince Stefanowicz Sr. Lead Engineer, Generation Reliability Standards and Compliance Subcommittee October 21, 2022



### **Summary of Activities**

Pre-Winter Reactive Capability Verification

## Cold Weather Checklist

Seasonal Fuel Inventory and Emissions Data Request

## Cold Weather Exercise

# **NERC** Webinar

Additional Mechanisms for PJM Situational Awareness



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

Generating Unit Reactive Capability Verification

- Pre-Winter Review: From October 1<sup>st</sup> through October 31<sup>st</sup>
- 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"
- Data Request in eDART
  - Starting November 1<sup>st</sup> and ending on December 15<sup>th</sup>
  - Option of using the PJM or equivalent checklist
  - NEW: Requires verification of Generating Facility cold weather operating <u>temperature</u> limit



### Seasonal Fuel Inventory and Emissions Data Request

Seasonal Fuel Inventory and Emissions Data Request

- Focused on fuel supply and delivery details, fuel inventory and emissions limitations
- Required for reliable operations planning purposes
- Enhance PJM situational awareness in preparation for severe cold weather
- Data Request open in eDART October 24<sup>th</sup> through November 28<sup>th</sup>



**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

**A**pjm

## NERC Winter Prep for Severe Cold Weather Webinar

NERC Winter Prep Webinar

- Held on 9/1/22 1300 to 1600 EPT
- Preparation for the upcoming winter weather, including:
  - Lessons Learned from recent severe cold weather events & effects on generation resources
  - Reliability Guideline: Generating Unit Winter Weather Readiness
  - 2022-2023 winter items of interest for GOs



### Additional Mechanisms for PJM Situational Awareness

Additional Mechanisms for PJM Situational Awareness

- Weekly Fuel and Non-Fuel Consumables
  Inventory Data Requests
- Markets Gateway Resource Limitation Reporting
- Unit Specific Parameter Adjustments
- Parameter Exceptions
- Real Time Values
- Operational Restrictions Field
- eDART Tickets



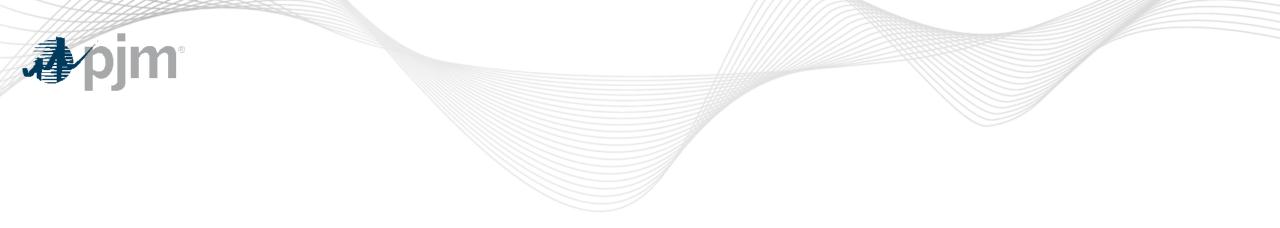
Facilitator: Monica Burkett, <u>Monica.Burkett@pjm.com</u>

Secretary: Dana Hiser, <u>Dana.Hiser@pjm.com</u>

SME/Presenter: Vince Stefanowicz, Vincent.Stefanowicz@pjm.com

**Generation Resource Cold Weather Preparation** 

Member Hotline (610) 666 – 8980 (866) 400 – 8980 custsvc@pjm.com



# Appendix



### **Additional Resources**

#### Project 2019-06 Cold Weather

• To enhance the reliability of the BES during cold weather events by ensuring Generator Owners, Generator Operators, Reliability Coordinators, and Balancing Authorities prepare for extreme cold weather conditions.

#### Project 2021-07 Extreme Cold Weather Grid Operations, Preparedness, and Coordination

 Address reliability related findings from the Federal Energy Regulatory Commission (FERC), NERC, and Regional Entity Joint Staff Inquiry into the February 2021 Cold Weather Grid Operations

#### **NERC** Cold Weather Preparation Slides

NERC Cold Weather Preparation Recording

#### **RF Winterization Outreach Program**

RF Winter Recap Performance during Winter 2021-2022

SERC 2022 Extreme Weather Webinar – October 20, 2022

