

Meeting Minutes

New York State Reliability Council – Extreme Weather Working Group (EWWG) Meeting # 12 – January 26, 2024 Zoom

1. Draft Meeting Minutes for Meeting # 11 – 12/4/2023

- Minutes were approved with little to no changes

2. DNV Analysis on Land Based Wind and Utility Level PV

- Stakeholder discussion:
 - Jason Frasier inquired as to whether or not the working group would like direct communications and interactions with DNV; stakeholders indicated that the main desire is to obtain the data set along with some statistical analysis; Jason Frasier indicated that releasing the data in the second quarter of this year remains the current plan
 - Jason Frasier noted that he was experimenting with the data set in Tableau, which seems like a promising platform to utilize to share the data set, along with the traditional excel files; Jason Frasier inquired with the working group regarding what is desirable from a dashboard perspective; stakeholders indicated that the following information would be useful: identification of droughts in renewable generation, correlation of droughts between different types of renewable generation, and correlation of droughts in renewable generation with peak load conditions
 - Gary Jordan inquired about any reliability analysis that has been performed with the data set; Laura Popa indicated that the NYISO is still discussing internally how to best utilize the data set given the current method of utilizing the latest five years of data; in relation to always needing the latest five years of data, Jason Frasier added that the plan is to work with DNV to continuously update the data set
 - Daniel Kirk – Davidoff and Jason Frasier had a brief discussion about utilizing a 50 year or even 70 year data set, as opposed to a 20 year data set, and agreed to have a more detailed discussion outside of this working group meeting

3. Potential Reliability Rule – 153: System Conditions for Transmission System Planning Performance Requirements Covering Wind and / or Solar Generating Resource Lulls

- Roger Clayton provided the following as an update:
 - Continue to discuss and work on this Potential Reliability rule with Keith Burrell
 - Completion of this Potential Reliability Rule is dependent on the statistical analysis necessary to properly define loss of generation due to weather; statistical analysis discussed in the previous agenda item should assist in achieving this end

- There are some extreme conditions defined in Potential Reliability Rule – 154 that might be worth inclusion as design criteria conditions

4. NERC Extreme Weather Workshop – 01/17/2023

- John Dellatto provided a high – level summary of some of the presentations that were made throughout the day at the workshop:
 - Climate & Weather Projections With Dynamical Downscaling – Tom Wall, Argonne National Laboratory
 - Weather and Climate Data at NREL – Grant Buster, NREL
 - Characterization of Climate Extreme Events and Integration in Power System Studies – Nathalie Voisin, Pacific Northwest National Laboratory
 - Developing Benchmark Planning Cases for Extreme Heat and Extreme Cold Weather Events – Dmitry Kosterev, Bonneville Power Administration
 - Probabilistic Energy Adequacy Tool (PEAT): Operational Impact of Extreme Weather Events – Stephen George, ISO New England
- Stakeholders were encouraged to review the presentations in detail on the NERC website
- Daniel Kirk – Davidoff noted that the presentation made by the Pacific Northwest National Laboratory may be of particular interest to this working group

5. Standardized Benchmark of Historical Compound Wind & Solar Energy Droughts Across the Continental United States

- Daniel Kirk – Davidoff noted that the paper makes suggestions for energy security metrics that are transferrable across studies, and that these metrics can be particularly useful when it comes to analyzing energy storage needs
- John Dellatto drew attention to the definition of two types of droughts:
 - Wind and Solar (WS) droughts occur when the Standardized Renewable Energy Production Index (SREPI) values for both wind and solar fall below -1.28 for the entire drought period, which corresponds to the 10th percentile or below of production in both resources
 - Load, Wind, and Solar (LWS) droughts use the same definition for wind and solar, but add in a third criteria where the Standardized Residual Load Index (SRLI) value must also fall above 1.28 for the entire drought period, which corresponds to a 90th percentile or above for load
- Laura Popa indicated that she will bring the paper to Keith Burrell’s attention to ensure that he reviews it

6. NERC Extreme Weather Alerts – NY Response

- Curt Dahl posed an open question to the group regarding the response to / impact of NERC Extreme Weather Alerts; stakeholders requested that the NYISO make a presentation to this working group regarding how they are alert to extreme weather from both a planning and operating perspective; John Stevenson agreed to take the request back
- Mark Younger stated that in all likelihood the NERC Extreme Weather Alerts are superfluous to the NYISO, as NYISO operations already stays on top of preparing for extreme weather; John Stevenson agreed with this sentiment

7. Other Business

- Roger Clayton suggested that the date of the next meeting be added to the agenda