

DER Report

5/11/19

NERC

- **SPIDER** - Next Meeting confirmed at COMED in Chicago, Oct 8 and 9. Limit 60 attendees in person.
- **Reliability Guideline** – Draft just issued - “Improvements to Interconnection Requirements for BPS-Connected Inverter based resources” – This a very detailed 50 page guideline intended to serve in the interim until IEEE 28000 is completed (several years expected to complete). This guideline follows the voluntary performance guideline that was issued in May of 2018 following the fire disturbances. It covers areas including: Momentary Cessation, Phase Jump Immunity, Capability Curve, Active Power Frequency Controls, Fast Frequency Response, Reactive Power Voltage Control, Reactive Power at No Active Power Output, Inverter Current Injection During Fault Conditions, Return to Service Following Tripping, Balancing, Monitoring, Operation in Low Short Circuit Strength Systems, Fault Ride Through Capability, Grid Forming, System Restoration and Black Start Capability, Protection Settings, Power Quality, Timing and Quality of Modeling Data Submittals during Interconnection Process, Steady State Modeling, Positive Sequence Dynamics Modeling, Short Circuit Modeling, Electromagnetic Transient Modeling and Benchmarking Positive Sequence and EMT Models.

NPCC

I Attended the DER forum portion of the RSC meeting on May 16. 8 presentations were made at the meeting. All of the presentations are available within a single PDF on the NPCC website/Committees/Regional Standards/Documents/May 16 2019 RSC. A brief summary follows:

- Guy Zito – Kickoff presentation providing NPCC’s charge and goals.
- EPRI - BPS Reliability and Implications of High Levels of IBR
- NYISO – DER Participation Model Market Design
- Smith – IEEE 1547 – a “101 paper” on the different performance categories of the revised version of IEEE-1547 and their comparison with related NERC standards
- Smith – NY Renewable Capacity – summary of NYISO and NYDPS queues and 2025 possible capacity
 - PV – 7200 MW?
 - Wind – 17000 MW?
 - BESS – 7000 MW?
- NYDPS – Distribution Level Interconnection in NY
 - Overview of the NY interconnection process including SIR, CESIR and attention to ESS
- ISO-NE – Implementation of Revised 1547

- ISO-NE raised concerns with DER penetration early on and felt a requirement to develop interconnection requirements for all PV prior to final implementation of IEEE 1547
- Worked with the Massachusetts Technical Standards Group
- Developed a standard which is consistent with IEEE 1547 Category II
- All NE utilities signed on in 2018 to place this requirement on new installations
- Comprehensive paper describing their process plus future risks and concerns
- NPCC/Schrayshuen – Potential Gaps - Identification of Emerging Risks and Paths to Mitigation
 - Comprehensive paper on all potential areas of risk

NEW YORK

New York ITWG - Meeting 5/15/19 see NYITWG website for details

- Appendix K (ESS) changes, Guidance Document changes, Tariff modifications