

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Verification Sub-Group

Michael Lombardi, NPCC
NERC SPIDERWG
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RELIABILITY | ACCOUNTABILITY



- Issues have been identified related to verification of DER models, performance, and data
 - Measurement data during BPS disturbances is needed to perform model verification
 - How to track aggregate DER performance during large BPS disturbances
 - How to leverage individual DER performance testing up to an aggregate level
 - How to perform model verification for aggregate DER performance
 - How to perform model benchmarking (across different software platforms) and when this is needed

- Issues have been identified related to verification of DER models, performance, and data
 - How forecasting practices are linked to DER modeling for reliability studies
 - Guidance on the acceptable verification techniques
 - Localized verification versus more wide-area verification
 - Explore various ways to aggregate DER data for the purposes of DER modeling
 - Ensuring sufficient and accurate conversion between the real-time EMS model and the planning model

- Work Plan is Under Development, sample deliverables:
 - Reliability Guideline: DER Measurement Device Placement, Installation and Application
 - Reliability Guideline: Testing and Model Verification for Aggregate DER Performance
 - Reliability Guideline: Performance of DER model benchmarking
 - Reliability Guideline: DER Forecasting Practices and Relationship to DER Modeling for Reliability Studies
 - Reliability Guideline: DER Verification Techniques for both Localized Verification and Wide-area Verification
 - Reliability Guideline: DER Steady-State and Dynamic System Model Validation
 - White Paper: DER Aggregation Methods and Strategies



Questions and Answers