

Minutes

Essential Reliability Services Working Group

Face to Face Meeting

March 8, 2017 | 12:00 – 5:00 p.m. Eastern Time

Meeting Location:

NERC Offices
3353 Peachtree Road NE
Suite 600, North Tower
Atlanta, GA 30326

In Person Participation: [Click: Eventbrite Registration Link](#)

Remote Participation: Click on the registration link below for WebEx and receive access to the conference

Teleconference: +1-415-655-0002 US Toll | +1-416-915-8942 Canada Toll

Meeting Number & Meeting Access Code: 734 926 490

Password: ERSwg-March2107

WebEx URL: [CLICK: Registration WebEx Link](#)

NERC On-Site Contact: Nicole Segal, nicole.segal@nerc.net, (404)-446-2563

Agenda & Minutes

Wednesday, March 8, 2017 (Lunch Provided)

12:00 – 1:00 PM Working Lunch - Provided

1:00 – 1:30 PM

1. Administrative

- a. Welcome and Introductions –Tom Coleman, NERC Staff
- b. NERC Antitrust Compliance Guidelines – Nicole Segal, NERC Staff
- c. Facilities & Safety Briefing – NERC Staff
- d. Chairs Reports– Brian Evans-Mongeon, Todd Lucas ERSWG Co-Chairs
 - i. Review February 22nd -23rd Meeting Minutes –
 - ii. Review latest roster – any changes?
 - iii. Report on OC-PC February Actions
 - iv. Review Agenda
 - v. Next meeting confirmation/Future Meetings –

- (1) May 17, 2017 – 12 PM to 5 PM,
- (2) May 18, 2017 – 8 AM to 12 PM
- (3) NERC Atlanta Offices

1:30 – 2:15 PM

2. M1 – M4 Frequency Response Measures Update – Frequency Subgroup

- a. Report on any specific data needs, historical reporting and predictive approaches
 - i. All four interconnects collected inertia data at 4s resolution, WECC at 1s resolution. ERCOT at 15-min resolution. The data is assembled to show what is done. Collection will continue with analysis.
 - ii. Julia Matevosyan provided an update on her progress with collecting and analyzing the data regarding historic inertia trends. Resource contingency at minimum inertia is being collected and the calculation showed that HQ gets a large frequency deviation. The modeling was updated to reflect practice, which reduces the largest contingency based on available inertia. Measure 2 is likely to need refinement to include HVDC links.
 - iii. Troy Blalock provided an update on the results of his investigations into areas with potential ramping issues and the communication that will be continued as part of the overall outreach to monitor and inform on this measure.
 - iv. Ryan Quint presented the Forward Looking Project Plan that provides some guidance and recommendations for the development of the forward looking approaches to Measures 1-4

2:15 – 2:45 PM

3. M7 - Reactive Capability on the System – Voltage Subgroup

- a. M7 wrap up and recommendation 2016 Reactive Power Guidelines – John Simonelli, ISO NE
 - i. Webinar: Reactive Power Planning Guideline: March 31st 11 AM – 1 PM– Ryan Quint, NERC Staff
- b. Discuss subarea reactive power studies from ERS White Paper on Sufficiency Guidelines– John Simonelli
- c. Action Item: The ERS will give the OC & PC recommendation as to whether to remove M7 and use the Reactive Power Guidelines. Q1 delivery of SAMS report on M7 will be used to make this decision.
 - i. Brian provided an update on the recommendations from the subgroup to disband Measure 7 and to move forward the 2016 Reactive Power Guidelines as a sufficient replacement for the need to measure the reactive capability on the system.

- ii. John stated the subgroup will be providing a detailed recommendation with supporting documentation as to why M7 is not the best approach to get the industry where it needs to be. SAMS got 18 BA datasets from PAS and looked at the data. The link between three past and future planning years had a disconnect in loads, reactive capabilities, reactive losses. The values that came out offered no trending information, because the results were not consistent over time in a way that supported trending.

2:45 – 3:15 PM

4. NERC CRM-TSC Frequency Response Study (Related to Future M4)

- a. Presentation on Future Frequency Response Study Work– Olushola Lutalo, NERC Staff
- b. Question & Answers Session
 - i. Olushola provided an update on the Frequency Response study. They have been able to develop a solid base case and scenario cases for the Eastern Interconnection to use for their Phase I study work. The work applies historic contingencies with known/measured results to better understand the impact these same contingencies will have on the base and scenario cases. By replacing existing units with inverter base units, the frequency of the system responds much better under high stress. The study found that even under the benchmark case (highest stress), the models did not present a frequency issue.

3:15 – 3:30 PM Break

3:30 –4:00 PM

5. M6 BA Level Net Demand Ramping Variability: - Ramping Subgroup

- a. 1 Page Summary on M6 from ERS White Paper on Sufficiency Guidelines – Nicole Segal -NERC Staff
- b. Discussion on M6, specific reporting deadlines, data needs, predictive approaches
 - i. Nicole reviewed the Appendix G of the ERS White Paper on Sufficiency Guidelines. This was an additional analysis that could be performed in the event that an initial screening study identified a potential ramping concern.
 - ii. John Moura provided background on the RAS's history with being handed off the ramping analysis and the considerations that were requested for areas that did not project any potential ramping issues due to their resource composition.
 - iii. There have been multiple approaches for developing a screening study on a future looking basis but there is a clear indication to move forwards with a BA looking analysis when needing a more granular view of potential issues and trends.

4:00 –4:45 PM

6. Outline Distributed Energy Resources Goals and Objectives - DER Subgroup

- a. T-D interface topics for supplemental guidelines/technical reference documents for BPS – Rich Hydzik –Avista Group
- b. Open Discussion on T-D interface topics (in reference to existing DER Final Report documentation)
 - i. The group is currently promoting recruitment. Discussion for proceeding with some of the upcoming changes regarding RBR filing and the removal of LSE. There is some question as to if the removal of LSE would impact standard requirements (specifically MOD 32) and a potential change with the collection of data that was previously applicable to the LSE and apply it to the DP. This data is actively used by the Load Modeling Task Force. There is some concern regarding this change and question on whether a change to a Standard is necessary. The recommendation will move forward to the Standard team for review. Rich will provide a draft copy of the SAR for the May meeting.
 - ii. An additional recommendation from the DERTF report recommendations included looking for other areas where the industry should be monitoring. A recommendation for a guideline for the collection of data is still applicable and seen as a need for the group to develop. Continuing considerations must be had for the differences between distribution systems, the applicability of different categories of resource characteristic “types”, and the various approaches for aggregating information and defining thresholds when developing a guideline for DER data collection. This guideline will be drafted by the DER subgroup.
 - iii. The DER group should coordinate with the new Inverter Dynamics Group that is now forming.
 - iv. Lorenzo questions regarding short term forecasting of DER to be discussed at DER subgroup.

4:45 PM – 5:00 PM

7. Other Measures, Open Issues and New Items

- a. Round table and parking lot discussion
- b. Reminder Next meeting confirmation

5:00 PM

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ACTION ITEMS LIST:

1. DER Sub committee

- a. Develop draft SAR to modify MOD-032 to replace LSE with DP.
- b. Develop draft technical brief/reliability guide to provide guidance on DER data needs for TPs, BAs, & TOPs/RCs.

2. Interested in the impact on reliability at the distribution & Resources Sub Committee (RS)

- a. Review M4 metrics at April RS meeting
- b. Evaluate and provide recommendation for needed adjustments to Resource Contingency Criteria values used in M2 analysis.
- c. Continue Development of forward looking M1-M4 analysis methods
 - i. Refinement of modeling efforts for f response analysis

3. Ramping Sub Committee & RS

- a. Continue vetting process for historical CPS1 analysis (M6) and follow up with BAs identified in initial screen
- b. Vet the initial screen and forward looking analysis methods as outlined in the 2016 White Paper, to include process described in Appendix G
- c. Develop recommendations for inclusion of ramping assessments in LTRA

4. Reactive Sub Committee

- a. Provide materials for June standing committee meetings in regards to the retirement of M7 and the promotion of the Reliability Guideline for Reactive Planning
- b. Do we need more than the February 2017 Measure 7 Analysis Report from SAMS?

5. Policy Sub Committee

- a. Policy Sub-group to reach out to policy makers