

System Analysis and Modeling Subcommittee Meeting Agenda

May 3, 2016 | 1:00 p.m. to 5:00 p.m. CT

May 4, 2016 | 8:30 a.m. to 5:00 p.m. CT

May 5, 2016 | 8:30 a.m. to 12:00 p.m. CT

Texas Reliability Entity, Inc.
805 Las Cimas Parkway (Bldg. III)
Austin, TX 78746 Location

ReadyTalk Web Conference:

Dial-in/Login Information: 1-866-740-1260, access code 4003015, security code 3015

Web Portion: <http://www.readytalk.com>, enter access code as Participant, enter security code.

Day 1 Agenda

Time	Topic	Point of Contact
1:00 PM CT	SAFETY BRIEFING NERC Antitrust Compliance Guidelines Introductions	Ryan Quint, NERC
1:00 PM CT	Chair's Remarks Agenda & Meeting Minutes - Review and approve PC/OC Meeting Report-Out – Update, feedback on work tasks	John Simonelli, ISO-NE
1:30 PM CT	NERC GMD Guideline Development & FERC Workshop <ul style="list-style-type: none">Update on current status of guideline doc developmentUpdate of NERC workshop on GMD & TPL-007 Modeling 3-Phase Systems Guideline <ul style="list-style-type: none">Update on efforts to develop technical whitepaper on system analysis and planning techniques using 3-phase modeling techniques	Mark Olson, NERC Bobby Jones, Southern Company
2:15 PM CT	IEEE 1547 Status update on latest IEEE 1547 efforts and past meeting	Jens Boemer, EPRI
3:00 PM CT	Break	
3:15 PM CT	Case Quality Metrics <i>(Endorsement Item) (Approval not required)</i>	Ryan Quint, NERC

Time	Topic	Point of Contact
	Review Phase 2 Case Quality Metrics following industry comment period and plan for assessment.	
3:30 PM CT	Reactive Power Planning Reliability Guideline <i>(Approval Item)</i> Update on effort to update TIS report related to industry practices for dynamic reactive power planning and voltage stability	Bill Harm, PJM
4:15 PM ET	Report: Considerations for Systems and Studies with High Penetration of Variable Energy Resources Status update and review of report	Michael Lombardi, NPCC

Day 2 Agenda

Time	Topic	Point of Contact
8:30 AM CT	FERC Order 786 Discuss FERC Order 786 and SAMS task from PC <ul style="list-style-type: none"> Review Paragraphs 40 and 89 Review sub-team's initial comments/perceptions Develop action plan and skeleton report 	John Simonelli, ISO-NE Eugene Blick, FERC
10:30 AM CT	Break	
10:45 AM CT	Changing Generation Mix Studies Report out of latest efforts for interconnection-wide variable energy resource penetration study. <ul style="list-style-type: none"> Frequency Response Study: Studying system-wide impact to frequency response for high penetrations of wind and/or solar resources. Short Circuit Study: Studying short circuit strength across system for high penetrations of wind and/or solar resources. 	Olushola Lutalo, NERC Mohamed Osman, NERC
11:30 AM CT	NATF Update Update on current NATF activities. <ul style="list-style-type: none"> Geomagnetic Disturbance Modeling and Studies CIP-014 Technical Analysis (PJM, DVP) Coordination on load modeling Update on recent EPRI/NATF resiliency workshop 	Ed Ernst, NATF
12:00 PM CT	Lunch	

Time	Topic	Point of Contact
1:00 PM CT	<p><u>MWG ITEMS</u></p> <p>Modeling Notification Process Approved at March 2016 PC meeting Present the process for issuing modeling advisories</p> <p>Model Advisories Status update on current model advisories:</p> <ul style="list-style-type: none"> • EX2000 Advisory – Final (out to industry) • GAST Advisory (in progress – RDQ w/ Undrill) • GENTPJ Advisory (in progress – RDQ w/ Undrill) <p>Node-Breaker Topology Representation Report out on node-breaker modeling efforts</p> <ul style="list-style-type: none"> • Limited industry implementation assessment • User experience presentations to MWG • White paper/technical document <p>Procedures for Validation of Powerflow and Dynamics Cases MWG action plan to transition to a Reliability Guideline</p> <p>Plant-Level Controls Summary Whitepaper (NERC Staff) Status report of white paper on plant-level control system performance and modeling capabilities – Due Jan/Feb 2016.</p>	John Idzior, RF Amir Najafzadeh, NERC
2:30 PM CT	<p>Generator Controls & Protection Task Force Update on latest efforts for PCPMTF; prioritization of efforts; list of deliverables; timeline.</p>	Mohamed Osman, NERC
3:00 PM CT	Break	
3:15 PM CT	<p>FAC-010/-011/-014 SDT Effort Update on FAC standards revisions</p>	Lacey Ourso, NERC
3:45 PM CT	<p>Functional Model Issues</p> <ul style="list-style-type: none"> • Removal of LSE – Issue with MOD-032 (?) • Issues with PC and TP • Other issues worth raising • Steps/actions for NERC SAMS to take 	John Simonelli, ISO-NE Brad Woods, TRE Lacy Ourso, NERC
4:15 PM CT	<p>NERC SMS – PMU-Based Model Verification Update Report-out of SMS activities; collaboration with SMS for power plant model verification (PPMV).</p>	Ryan Quint, NERC

Time	Topic	Point of Contact
4:45 PM CT	NERC Load Modeling Task Force Report-Out Status update of LMTF efforts	Ryan Quint, NERC

Day 3 Agenda

Time	Topic	Point of Contact
8:30 AM CT	LTRA and STSA Update Update on 2015 LTRA Report Update on 2015 STSAs	David Calderon, Pooja Shah, NERC
9:00 AM CT	ERSTF Measure 7 <ul style="list-style-type: none"> Discuss plan for ERSTF Measure 7 trending – SAMS/PAS Latest ERSWG efforts 	Melinda Montgomery, Entergy John Simonelli, ISO-NE
9:45 AM CT	Clean Power Plan (CPP) Study Update Status report on CPP Study NERC is conducting	Tom Coleman, NERC
10:30 AM CT	Break	
10:45 AM CT	RAS/SPS Update Update on Project 2010-05.3 Phase 3 of Protection Systems: Remedial Action Schemes (RAS) PRC-012-2 Report-out: <ul style="list-style-type: none"> The standard was posted for comment and ballot from Nov. 25 to Jan. 8. The standard got 60.4% approval (up from 48% before). The standard drafting team is meeting this week to consider comments and possible changes. 	Bobby Jones, Southern Company
11:30 AM CT	Wrap-Up Review SAMS/MWG Work Plan Review SAMS/MWG Work Plan & Action Items Future Meetings Review Future Meetings (Below) Other Business & Remaining Action Items Discuss any remaining business and action items	Michael Lombardi, NPCC All
12:00 PM CT	Adjourn	

FUTURE MEETINGS:

Date	Time	Location	Primary Purpose
July 12-14, 2016	Tuesday half day Wednesday full day Thursday half day	Portland, OR (PacifiCorp)	Regular meeting
October 25-27, 2016	Tuesday half day Wednesday full day Thursday half day	Eagan, MN (MISO)	Regular meeting
January XX-XX, 2016	Tuesday half day Wednesday full day Thursday half day	TBD, TBD (TBD)	Regular meeting

OTHER TOPICS:

Time	Topic	Point of Contact

Antitrust Compliance Guidelines

I. General

It is NERC's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. This policy requires the avoidance of any conduct that violates, or that might appear to violate, the antitrust laws. Among other things, the antitrust laws forbid any agreement between or among competitors regarding prices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that unreasonably restrains competition.

It is the responsibility of every NERC participant and employee who may in any way affect NERC's compliance with the antitrust laws to carry out this commitment.

Antitrust laws are complex and subject to court interpretation that can vary over time and from one court to another. The purpose of these guidelines is to alert NERC participants and employees to potential antitrust problems and to set forth policies to be followed with respect to activities that may involve antitrust considerations. In some instances, the NERC policy contained in these guidelines is stricter than the applicable antitrust laws. Any NERC participant or employee who is uncertain about the legal ramifications of a particular course of conduct or who has doubts or concerns about whether NERC's antitrust compliance policy is implicated in any situation should consult NERC's General Counsel immediately.

II. Prohibited Activities

Participants in NERC activities (including those of its committees and subgroups) should refrain from the following when acting in their capacity as participants in NERC activities (e.g., at NERC meetings, conference calls and in informal discussions):

- Discussions involving pricing information, especially margin (profit) and internal cost information and participants' expectations as to their future prices or internal costs.
- Discussions of a participant's marketing strategies.
- Discussions regarding how customers and geographical areas are to be divided among competitors.
- Discussions concerning the exclusion of competitors from markets.
- Discussions concerning boycotting or group refusals to deal with competitors, vendors or suppliers.

- Any other matters that do not clearly fall within these guidelines should be reviewed with NERC's General Counsel before being discussed.

III. Activities That Are Permitted

From time to time decisions or actions of NERC (including those of its committees and subgroups) may have a negative impact on particular entities and thus in that sense adversely impact competition. Decisions and actions by NERC (including its committees and subgroups) should only be undertaken for the purpose of promoting and maintaining the reliability and adequacy of the bulk power system. If you do not have a legitimate purpose consistent with this objective for discussing a matter, please refrain from discussing the matter during NERC meetings and in other NERC-related communications.

You should also ensure that NERC procedures, including those set forth in NERC's Certificate of Incorporation, Bylaws, and Rules of Procedure are followed in conducting NERC business.

In addition, all discussions in NERC meetings and other NERC-related communications should be within the scope of the mandate for or assignment to the particular NERC committee or subgroup, as well as within the scope of the published agenda for the meeting.

No decisions should be made nor any actions taken in NERC activities for the purpose of giving an industry participant or group of participants a competitive advantage over other participants. In particular, decisions with respect to setting, revising, or assessing compliance with NERC reliability standards should not be influenced by anti-competitive motivations.

Subject to the foregoing restrictions, participants in NERC activities may discuss:

- Reliability matters relating to the bulk power system, including operation and planning matters such as establishing or revising reliability standards, special operating procedures, operating transfer capabilities, and plans for new facilities.
- Matters relating to the impact of reliability standards for the bulk power system on electricity markets, and the impact of electricity market operations on the reliability of the bulk power system.
- Proposed filings or other communications with state or federal regulatory authorities or other governmental entities.

Matters relating to the internal governance, management and operation of NERC, such as nominations for vacant committee positions, budgeting and assessments, and employment matters; and procedural matters such as planning and scheduling meetings.