

Draft Meeting Minutes Reliability Metrics Working Group

September 23, 2009 | 8 a.m. – 5 p.m.

September 24, 2009 | 8 a.m. – 1 p.m.

NWPP Offices

7505 N.E. Ambassador Place,
City of Portland, OR, 97220
503-445-1075

Convene

Chair Herb Schrayshuen convened Reliability Metrics Working Group, RMWG face-to-face meeting on September 23, 2009 at 8 a.m. Pacific Time at the Northwest Power Pool (NWPP) in Portland, Oregon in conjunction with a conference call and WebEx for the remote participants.

Meeting Agenda

The agenda can be found in Exhibit A.

Members present in the meeting, in addition to Chair Schrayshuen, were Vice Chair Bill Adams, Scott Benner, Stuart Brindley, Gary Bullock, Heidi Caswell, Donald Davies, Laura Leigh Elsenpeter, Jeff Mitchell, Ed Pfeiffer, Gregory Pieper, Jerry Rust, Jeff Schaller, John Simpson, James Eckert, James Williams, and present through WebEx is Jim Case from Entergy Services, Inc. Present at the meeting from NERC were Jessica Bian, and Rhaiza Villafranca.

1. b) NERC Antitrust Compliance Guidelines

Rhaiza Villafranca, from NERC staff, directed participants' attention to NERC's Antitrust Compliance Guidelines which were included in the agenda.

1. c) Consent Agenda

Chair Schrayshuen presented the consent agenda and reviewed action items from the August 19th conference call. Presentations for this meeting are provided on a zip file, available at <http://www.nerc.com/filez/rmwg.html>.

Action Items & Introductions

All action items from previous meetings were reviewed and the status identified. Jeff Schaller, new member and liaison for CEA, was introduced to the group.

1. d) Meeting Minutes

RMWG approved the August 19th conference call minutes as amended to show additional information.

1. e) PC/OC Approval on September 15, 2009

Chair Schrayshuen informed the group of the PC/OC approval of the 2009 Reliability Performance Metric Recommendations report. The OC suggested that RMWG use consistent terminology in defining the metrics, and initiated a SAR to clarify EEA2 usage in EOP-002.

Activities Updates

2. a) Transmission Owners and Operators Forum Update

Vice Chair Bill Adams made a presentation on the Transmission Owners and Operators Forum on behalf of David Durham to cover the committee's functions and shed light on the Forum's current activities. The Vice Chair confirmed the restructuring of the Forum which plans to separate from NERC becoming a stand-alone nonprofit organization.

2. b) Reliability Fundamentals Working Group (RFGW) Update

Jerry Rust explained that the RFGW is building concepts, developing a structure for its work product, and updates on their progress will be reported over time. RFGW is expecting a metric chapter from RMWG at a later date. No action item for RMWG was generated.

2.c) Reliability Assessment Subcommittee (RAS) Update

The LTRA is in the process of receiving feedback from the Operating and Planning Committee. The metrics section of the LTRA has been approved by OC/PC including the seven 2009 RMWG metrics.

3.) Canadian Electricity Association (CEA) Presentation

Jeff Schaller provided a summary of the history of the CEA as the national forum and voice of the evolving electricity business in Canada. He presented an outline and history of the CEA metrics program and suggested there are two metrics used in CEA that might be considered for the RMWG. Jeff will prepare metric templates after conferring with the CEA metrics team.

4.) FERC Frequency Study Update

Eddy Lim of FERC provided a high level description of frequency study scope including validation of an approach to assess the reliability impacts of integrating renewables into the grid. The study is expected to be completed first quarter of 2010.

5.) Performance-Based Standards

The Chair made a presentation on the "Developing Results-Based Standards" which is being put forward in the Standards Development Three year plan.

6.) Team 1 Discussion Results

Jerry Rust, Team 1 Lead, presented an overview of frequency performance assessments. The NERC staff, OC officers, and industry technical experts held a meeting on August 28th in

Philadelphia and proposed steps to plan the data collection and identify root causes of frequency decline in Eastern Interconnection.

As recommended by Team 1, a potential metric would be defined as frequency response against frequency load shedding thresholds. Team 1 recommended dismissing the four frequency metric proposals due to lack of uniformity on data sources, variability among interconnections, and the difficulties of defining an underlying cause of the metrics. They are Integral of Negative Frequency Excursions, Number of Negative Frequency Excursions, Average Frequency Error, and Daily Frequency Outlier Noise. Team 1 is looking forward to FERC's concluding frequency study results by the end of this year.

The summary of responses from Team 1 is available at <http://www.nerc.com/filez/rmwg.html> .

7.) Team 2 Discussion Results

Stuart Brindley, Team 2 Lead, covered four proposed metrics. The Index of Transmission of Availability Index (previously ITR) is being considered among the four proposed metrics. Jeff Mitchell was requested to further develop the definition for this metric based on the comments received from the group and his experience with using a similar metric used by MAIN and ECAR. SERC is also considering a similar metric, and so Jeff will collaborate with Herb to consider the best attributes of both. Team 2 considered three other metrics (Simultaneous TLRs, Breaker Failures, and Magnitude of Exceedance) and recommended dismissing them as NERC-level reliability metrics. The Team expressed particular interest in the Breaker Failure metric, and suggested this might best reside as part of the TADS process. Ed Pfeiffer offered to discuss this further with the TADS group, and consider it as part of a future change order.

The summary of responses from Team 2 is available at <http://www.nerc.com/filez/rmwg.html> .

8.) Team 3 Discussion Results

John Simpson, Team 3 Lead, covered 2 proposed metrics: Exposure to Cascading Events and Simultaneous EEAs. Team 3 recommended dismissing the two metrics since the concept of these metrics has been considered in ALR 3-5, 6-2 and 6-3.

The summary of responses from Team 3 is available at <http://www.nerc.com/filez/rmwg.html> .

9.) The Potential Metric Recommendations for 2010

RMWG reviewed the metric list developed by the group early in 2009 and suggested to further evaluate ten metrics for consideration in 2010. They are:

- ALR1-1 Generator Reactive Limit Metric: Voltage schedules
- ALR1-2 Maintaining the required amount of reserve (BAL-002, reserve contingency requirement)
- ALR1-5 System Voltage Performance
- ALR2-2 SPS Operations
- ALR2-3 UFLS and UVLS Usage
- ALR2-9 Min Gen Management

- ALR3-3 IROL Flow Duration Curve
- ALR4-2 Loss of Protection Systems
- ALR4-3 System Operating Limit (SOL) exceeded
- ALR6-5 Facility Redundancy

10) 2010 Annual Report

The Chair discussed the need to produce an annual report and raised the question whether RMWG is the right group to conduct trend analysis and assessments of the report. The group agreed to prepare the annual report and the analysis functions will be considered in the future meeting.

11) Comment form, Survey and Website Update

Rhaiza Villafranca demonstrated where the location of the survey summaries gathered from each team will be in the web. As suggested by the Chair to refer to the ALR numbers when referring to the metrics.

Adjourn and Reconvene

The meeting was adjourned at 5:00 P.M. on Wednesday September 23 and reconvened at 8:00 A.M. September 24.

12.) RMWG Data Request Process

There are two RMWG metrics that may require Section 1600 data requests, ALR 3-5 OL Excursion and ALR 1-4 Transmission Constraint Mitigation. RMWG is sensitive to the relative burden imposed to industry and will strive to minimize the data submittal request required to support these two metrics. RMWG decided to pursue a formal Section 1600 data request preparation for its ALR 3-5 and will pursue a field trial for ALR 1-4.

13.) NERC Data Collection and Coordination

John Moura, from NERC staff, highlighted the data collection Rules of Procedure Section 1600 process. Mr. Moura emphasized the need to streamline the process when data is collected from diverse sources. He addressed the questions on requirements and issues facing RMWG on their next steps in collecting and validating data.

14). Update on RMWG Three-Year Work Plan

RMWG made changes on the three year work plan to reflect future activities: data collection, web design, and scheduling for the annual report writing.

15) Future Meetings

RMWG reviewed the locations NERC suggested as possible venues for future meetings. The updated list will be included in the next agenda.

16.) Action Items to be reported in the next meeting:

#	Action Items	Assigned To	Due by Target Date	Action Status
1	Relative to the ALR 3-5 (OL Excursion), prepare a draft letter request to the Data Coordination Subcommittee (DCS). Assure that the request hits all the points called for in the rules of Procedure 1600.	Stuart Brindley	October 21, 2009	
2	Confer with the Operating Committee's Resource Subcommittee. Consider the options gathered by the team on frequency response. Other than proposing an outlier metric, RMWG will wait until FERC's study concludes by the end of this year.	Jerry Rust	October 21, 2009	
3	Need clarification from the Forum presentation: What are the undefined causes of the event rate line during April and May pilot data? What's the source?	Bill Adams	October 21, 2009	
4	Prepare a draft expansion of the 2009 report. Develop written materials relative to the issue of "assessment vs. metric reporting" as discussed in the meeting for the rest to consider.	Stuart Brindley (preliminary) RMWG (review)	October 21, 2009	
5	Prepare a draft response to each metric recommendation RMWG received through the open solicitation initiated in August. Listed as Considered are ALRs 1-1, 1-2, 1-5, 2-2, 2-3, 2-9, 3-3, 4-2, & 4-3, 6-5. The dismissed metrics are ALRs 2-6, 2-7, 3-1, 3-4, 5-1, 5-2, 5-3, 5-4, & 6-4.	All team leads, Team 1 Jerry, Team 2 Stuart, & Team 3 John	October 21, 2009	
6	Present a sample of metrics from CEA to RMWG.	Jeff Schaller	October 21, 2009	
7	Develop an outline for a Metrics Workshop in the first quarter of 2010	Jerry Rust John Simpson	November 2009	

8	Updated the next draft to the Transmission Availability Index (formerly ITR) to incorporate RMWG comments.	Jeff Mitchell	October 21, 2009	
9	Lead a pilot on the Transmission Constraint Mitigation Metric. All Regions are responsible, starting with SERC, RFC and MRO	John Simpson (lead)	October 21, 2009	
10	Report on the measure of adequacy of the Generator Reactive Limit Metric	Ed Pfeiffer	October 21, 2009	
11	The NERC staff will question if the data pilot for ALRs 1-3, 1-4, 2-4, 2-5, 4-1, 6-2, & 6-3 need to follow through the Section 1600 data request process or if other protocols needed.	NERC Staff	October 21, 2009	
12	Modify RMWG Web Tool to capture the substance of the metrics proposals along with the responses of the RMWG	NERC Staff	October 21, 2009	
13	Amend as discussed and distribute the meeting schedule for 2010	NERC Staff	October 21, 2009	

Having no other further business, the meeting adjourned at 12:00 P.M. Pacific time.

Next Meeting

A conference call is scheduled for October 21st to include a webcast.

Submitted by,
 Rhaiza Villafranca
 NERC Staff