Meeting Minutes
Reliability Metrics Working Group

December 15, 2010 | 2 pm – 3 pm

Conference Call

Convene
Chair William Adams convened the Reliability Metrics Working Group (RMWG) conference call meeting on December 15.

Meeting Agenda
The meeting agenda following the action items can be found in Appendix A.

Members present in addition to the Chair Bill Adams were, Scott Benner, Heide Caswell, Donald Davies, David Durham, James Eckert, Laura Couillard, John Johnson, Robert Legault, Michael Pakeltis, Gregory Pieper, Ed Pfeiffer, Jeffrey Schaller, Edward Scott and Chad Thompson. Observers that were present were Curtis Crews, Eddy Lim and Kurt Weisman. Also present from NERC were Jessica Bian, and Rhaiza Villafranca.

NERC Antitrust Compliance Guidelines
Rhaiza Villafranca, NERC staff, directed the participants’ attention to the NERC Antitrust Compliance Guidelines, included as a part of agenda package.

Action Items
Chair called in the action items from previous meeting found in Appendix A. All action items were completed as indicated under the column “action status”.

Meeting Minutes – RMWG approved the November 3-4 face to face meeting minutes.

Report on the Operating and Planning Committees (OC&PC)
1. The OC&PC approved two items requested for approval and for review:
   a. RMWG scope change
   b. Metric ALR6-16 Transmission System Unavailability
**ALR6-16 Transmission System Unavailability due to Automatic Outages**
RMWG collaborated with TADS Chair Michael Pakeltis and incorporated his suggested changes to further develop the metric. The changes are comprised of: name change to Transmission System Unavailability, to include Non-Automatic Outages, and to show as a stacked column bar with components of 1) Sustained Outage Component, 2) Planned Outage Component, and 3) Operational Outage Component.

**The Forum**
David Durham reported that the Forum is reviewing the RMWG metrics in an effort to align metrics according to their order of importance.

**Resources Subcommittee (RS)**
Jessica Bian, NERC Staff, reported the Frequency Response metrics pilot study to RS, seeking their comments. The metrics mentioned were ALR 2-3 Activation of Under Frequency Load Shedding and ALR1-12 Interconnection Frequency Response metrics.

**Canadian Electricity Association (CEA)**
Jeff Schaller reports that the CEA this year will give particular attention to how people uses data and how data influences decision making. Monthly calls and an annual face-to-face are being held, information regarding membership to CEA will be provided through individual request. Interested parties should send their request to Jeff Schaller at jeff.schaller@HydroOne.com.

**Reliability Coordinator Working Group (RCWG)**
Robert Legault requested feedback from the RCWG on metrics prioritization. There are no comments received at this time.

**Events Analysis Working Group (EAWG)**
The EAWG is looking for feedback on process improvements and on changes made to the documents. John Johnson serving as the liaison mentioned that EAWG field trial began on October 25 and will end on January 25, 2011. The field trial is a list of events in categories 1 to 5; changes based on the field trials that are suggested will be incorporated to the process and subsequently to the Rules of Procedure (RoP). Once change is implemented, the EAWG report is anticipated to be released on November 2011.

**Transmission Availability Data System (TADS)**
Michael Pakeltis chairman reported that TADS will evaluate the impact of 100kV data to prepare for the demand and future possibility for the Energy Information Administration (EIA) efforts to collect data that are 100kV.

**ERO-Reliability Assessments Performance Analysis (ERO-RAPA)**
Jessica Bian reported the updates on the ALR4-1 Correct Protection System Operations template. A template will capture a consistent reporting definitions and specifications. The template is being developed to incorporate feedbacks and suggestions from ERO-RAPA.
**Metric Tier Integration**
To address the number one question on the metric tier integration, the chairs and all team leaders are to meet and discuss the next steps satisfying an action item from the Planning Committee in September.

**Annual Report**
A drafted backbone of the Annual Report was sent to all the members asking for volunteers on the sections, the list of sections with their respective volunteered names is due on January 7.

**FERC RTO/ISO Metrics**

**Team 1**
Ed Pfeiffer, team lead opened the discussion on the FERC’s RTO/ISO metrics regarding Dispatch Reliability. The team gathered their ratings and will provide their consensus on three metrics: Balance Authority Ace Limit (BAAL), Energy Management System (EMS) availability, and Operational Planning – Load Forecast Accuracy.

**Team 2**
Team 2 has not achieved a consensus. The team is scheduled to hold their meeting on January 5, 2011.

**Team 3**
John Simpson’s group voted for one metric on Long-Term Reliability Planning “Transmission Percentage of approved construction on schedule and completed”. This metric will be brought up to the next conference call and a final consensus to take place in February.

**Team 4**
Heide Caswell on the development of the Risk assessment refinement updated the group on the current status. As the improvement develops in place, the results are anticipated to become final on February 2011.

Without any other further business the meeting adjourned at 3:00 PM.

**Future meeting**
The next conference call is scheduled for January 12, 2011 at 2 – 3 PM EST. Face-to-Face meeting is scheduled for February 2-3 at SERC Charlotte, NC is to be announced.

Submitted by,

Rhaiza Villafranca,
NERC Staff
Agenda

1. Roll Call
2. Antitrust Guidelines
3. Chair’s Remarks
   a. Report on December 7-8 OC and PC Meetings
4. Approval of November Meeting Minutes
5. Review Action Items
6. Liaison Reports
   a. Forum
   b. RS
   c. CEA
   d. G&TRPMTF
   e. RCWG
   f. EAWG
   g. TADSWG
   h. ERO-RAPA
7. Team Update
   a. Team 1
   b. Team 2
   c. Team 3
   d. Team 4
8. Next Steps
   a. Metric Tier and Integrated Index
   b. 2011 Annual Report
   c. Reliability Indicators webpage
   d. Conference Call, January 12, Wednesday 2:00-3:00 PM EST
   e. Face-to-Face Meeting, February 2-3 Wednesday to Thursday, Charlotte, NC, SERC office

<table>
<thead>
<tr>
<th>RMWG Action Items on December 15</th>
<th>Assigned To</th>
<th>Due by Target Date</th>
<th>Action Status</th>
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</thead>
<tbody>
<tr>
<td>1. Finalize meeting location for</td>
<td>John Johnson</td>
<td>January-first week</td>
<td>Invitation sent on 12/21/2010</td>
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<td>the next face to face meeting on</td>
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<td>February 2-3, NC, Charlotte, SERC</td>
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<td>Office</td>
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<td>2. Schedule a meeting for Chair,</td>
<td>NERC Staff</td>
<td>January - middle</td>
<td>Scheduled for 1/17/2011</td>
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<td>Vice Chair and Team leaders to</td>
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<td>discuss the Metric Integration</td>
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<td>Process implementation.</td>
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<td>3. Schedule a meeting for RMWG</td>
<td>NERC Staff</td>
<td>January – third week</td>
<td>Scheduled for 1/27/2011</td>
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<td>members to go through the new</td>
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<td>Reliability Indicator’s web page.</td>
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