Meeting Minutes
Reliability Metrics Working Group

August 18, 2010 | 2 p.m. – 3 p.m.

Conference Call

Convene
Chair William Adams convened the Reliability Metrics Working Group (RMWG) conference call on Aug 18, 2010.

Meeting Agenda
Appendix A contains the meeting agenda.

Members present, in addition to the Chair, were Vice Chair Jerry Rust, Gary Brownfield, Heide Caswell, Donald Davies, David Durham, James Eckert, Laura Elsenpeter, David Mcree, Jeff Mitchell, John Johnson, Ed Pfieffer, Jeffrey Schaller, Howard Tarler, Chad Thompson, Kurt Weisman, and Joel Wise. 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 the agenda package.

Action Items
Chair called in the action items for June 18. June 18 action items were completed.

Meeting Minutes
RMWG approved the June 18 meeting minutes.

Liaisons
North American Transmission Forum (previously known as TOOF)
David Durham provided a status of the North American Transmission Forum who planned to interact and contribute to the RMWG metric’s review.
Metrics Updates

Team 1
Ed Pfeiffer has succeeded Jerry Rust for Team 1 leadership. Team 1 completed assessment on two metrics ALR1-13 and ALR1-14 and had prepared responses addressing the reasons for not advancing these two metrics. The reasons for dismissal will be discussed with the proposer Terry Bilke.

Team 2
Jeff Mitchell discussed responses received from System Protection and Control Subcommittee (SPCS) for the Reliability Metric ALR4-1 Correct Protection System Operations. The feedbacks were directed to the metric calculation, sample charts, trends, aggregation, and linkage to Transmission Availability Data System (TADS).

SPCS also suggested changing the title of ALR6-11 *Automatic AC Transmission Outages Initiated by Failed Protection System Equipment* to *Automatic AC Transmission Outages Initiated by Protection System Equipment-Related Misoperations*. A footnote or text box was suggested to be added to indicate that this metric includes protection system equipment-related problems such as equipment failure, relay setting drifting and internal relay logic or algorithm errors. Excluding misoperation cause such as miscoordinated settings, incorrect setting calculations and errors in applying settings to the relay which are classified in TADS under human errors.

A suggestion for ALR6-12 *Automatic AC Transmission Outages Initiated by Human Error* metric is to include protection system misoperations as a footnote. This is due to human error cause by miscoordinated settings, incorrect setting calculations, and errors in applying settings to the relay, and other human errors identified in the TADS Data Reporting Instruction Manual for the Automatic Outage Cause Code.

Team 3
Jeff Schaeller informed the group on the coming Canada Energy Association (CEA) meeting in Toronto. The ALR6-20 *Frequency of Delivery Interruptions* metric is part of the CEA agenda.

Team 4
Heidi Caswell, team lead, informed the group that the Draft Integrated Bulk Power Risk Assessment Whitepaper was sent out for comments that will be due by Aug. 27th. A future meeting with DOE was scheduled on September 9, to talk about timely and overall efforts geared for the risk assessments concepts.

Adjourn
Without any other further business the meeting adjourned at 4:00 P.M.

Future meeting, The next conference call is scheduled for September 23, 2010 at 3 – 4 PM.

Submitted by,
Rhaiza Villafranca,
NERC STAFF
Agenda

RMWG, August 18, Wednesday, 2-4 PM EST

1. Reminder and Antitrust Guidelines
2. Chair’s Remarks – Bill A.
3. Call participation – Jerry R.
4. June 18 Meeting Minutes - Approval
5. Liaison Reports - Information
   - Forum – David D.
   - CEA – Jeff S.
   - RAS – Vacant (need a replacement)
   - RS – Jerry R.
   - RCWG - Joel W.
   - TADSWG – Mike P.
   - G&TRPMTF – Ed P.
   - TIS – Gary B.
6. Team Updates
   - Team 1 – Ed P.
     - ALR1-5 System Voltage Performance
     - ALR1-12 Interconnection Frequency Response
     - ALR2-3 Activation of UFLS
   - Team 2 – Jeff M.
     - ALR4-1 – SPCS and TADSWG Outreach
     - ALR3-5 – BOT approved the data request
     - ALR6-11, 6-12, 6-13, 6-14, 6-15, 6-16
   - Team 3 – John S.
     - ALR6-20 Bulk Power System Delivery
   - Team 4 – Heide C.
     - Integrated Bulk Power System Risk Assessment Concepts Whitepaper
7. Slide Review for the September OC and PC meeting
8. Two new metric proposals from NERC
   - Experience as System Operators
   - Experience on the Job
9. RMWG Webinar on September 22, 11 am – 1 pm, EDT
   - Topics
   - Presenters
10. Next conference call – September 23, 2-3 pm, EDT?
11. CEA CCOS Workshop in Toronto – September 27 & 28 Monday to Tuesday

12. Next face to face meeting on November 3-4, 2010 – Salt Lake City, Utah (Pacific Corp Office)
<table>
<thead>
<tr>
<th></th>
<th>RMWG Action Items on Aug 18</th>
<th>Assigned To</th>
<th>Due by Target Date</th>
<th>Action Status</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Respond to Resources Subcommittee’s metric proposals. Address reasons to Terry Bilke for metrics that are Considered and not Advanced from Team 1’s deliberation</td>
<td>NERC Staff</td>
<td>Aug 20</td>
<td>Responses were drafted by Team 1, will discuss with Terry Bilke before sending. (carried over to 9/23 minutes)</td>
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<tr>
<td>2.</td>
<td>Coordinate with RCWG on the consistency of reporting criteria for ALR1-5</td>
<td>Team 1</td>
<td></td>
<td>Completed</td>
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<tr>
<td>3.</td>
<td>Add footnote for ALR6-11 and 6-12 to the metric template</td>
<td>NERC Staff</td>
<td>Aug 27</td>
<td>Completed</td>
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<tr>
<td>4.</td>
<td>Include title change for ALR4-1 to OC &amp; PC presentation and template</td>
<td>NERC Staff</td>
<td>Aug 27</td>
<td>Completed</td>
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<tr>
<td>5.</td>
<td>Schedule a meeting with Team 3 for</td>
<td>Team 3</td>
<td></td>
<td>ALR6-1 Meeting is scheduled 2 New Training Metric is not (carried over to 9/23 minutes)</td>
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<td></td>
<td>ALR61-, consistent definitions</td>
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<td></td>
<td>• 2 New training metric ideas</td>
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<td>7.</td>
<td>Comments are due for the Integrated Bulk Power System Risk Assessment Concepts paper</td>
<td>All</td>
<td>Aug 27</td>
<td>Completed</td>
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<tr>
<td>8.</td>
<td>Prepare the OC &amp; PC slides with background information to include charts on all 2010 metric proposals</td>
<td>NERC Staff</td>
<td>Aug 30</td>
<td>Completed</td>
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<td>10.</td>
<td>Announce the November face to face meeting for registration information</td>
<td></td>
<td>Aug 23</td>
<td>Completed</td>
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