

Minutes: Planning Committee

September 13, 2011 | 1-5:00 p.m.

September 14, 2011 | 8:00 a.m. – Noon

Sheraton St. Louis City Center Hotel & Suite
400 S. 14th Street
St. Louis, MO 63103

Planning Committee (PC) Chair Jeff L. Mitchell presided over the meeting. The meeting notice, amended agenda, list of attendees, and action items are **Exhibits A, B, C and D**, respectively. Meeting presentations and complete agenda package are posted at <http://www.nerc.com/filez/pcmin.html>.

Administrative Matters

Welcome and Introductions

Chair Mitchell opened the meeting and welcomed the attendees. He introduced himself as the newly appointed PC Chair, succeeding former PC Chair Thomas F. Burgess. Mr. Mitchell noted the substantial progress the committee, its members, and the PC have had on meeting PC and NERC objectives and announced his appreciation to those who participated in enhancing the PC Strategic Plan and Charter, approved by the Board of Trustees at its August 4th, 2011 Meeting.¹ Attendees were introduced.

Notice of Public Meeting

Secretary John Moura discussed the following open meeting reminder:

“Participants are reminded that this meeting is public. Notice of the meeting was posted on the NERC website and widely distributed. Participants should keep in mind that the audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.”

Arrangements and Schedule of Events

Secretary Moura reviewed the arrangements and schedules for the two days of the meeting.

Parliamentary Procedures

Secretary Moura noted that the PC follows the newly revised Robert’s Rules of Order as summarized in the posted meeting agenda package.

Announcement of Quorum

Of the PC’s 34 total voting member positions available, the PC has two vacancies in the large end-use customer sector and one vacancy in the electricity marketer sector, leaving 31 active voting members.

¹ http://www.nerc.com/docs/bot/agenda_items/BOT-0811a-complete.pdf

The meeting quorum (two-thirds of 31) was satisfied by 31 voting members or their proxies being present.

Antitrust Compliance Guidelines

Secretary Moura reviewed the NERC Antitrust Compliance Guidelines.

Future Meetings

The PC future meetings are scheduled as follows:

December 13–14, 2011	Atlanta, GA (confirmed)
March 6–7, 2012	Phoenix, AZ (confirmed)

Approval of Meeting Agenda

Chair Mitchell reviewed the meeting agenda. He noted agenda items will need to be discussed out of sequence due to the speakers' other commitments. Without noting any amendments to the agenda, Mr. Dale Burmester offered a motion that the agenda be approved. The agenda was approved without dissent.

Consent Agenda

Chair Mitchell listed each of the consent agenda items, including the PC Draft Minutes – June 7-8, 2011 (Toronto), PC Draft Minutes – July 11, 2011 (Teleconference), and the Integration of Variable Generation Task Force report titled, *Potential Bulk System Reliability Impacts of Distributed Resources*. Mr. Dan Rochester moved that all three items be approved as submitted, but noted that some editorial changes would be submitted to NERC Staff. The consent agenda items were approved without dissent, with the editorial changes to be made by the Secretary.

Chair's Remarks: Report on August 3-4, 2011 NERC Board of Trustees and Member Representatives Committee Meetings

Chair Mitchell reviewed discussions at the BOT and MRC meetings. Further, he requested discussion from the PC members on potential tasks directed to the PC to determine generator threshold levels for the revised Bulk Electric System Definition. Phase I of the task is to meet the directives of the FERC Order. Phase II addresses other identified issues which the OC/PC may be called upon to provide input into the Standards Process.

Chair Mitchell requested that Mr. Andy Rodriguez (NERC, Director of Standard Development) provide an update from the Standards Committee with their prioritization and technical justification supporting the reliability benefits of the NERC Standards. Chair Mitchell concluded the discussion noting that the PC Executive Committee will initiate the prioritization.

Chair Mitchell also we welcomed NERC Board of Trustees Member, David Goulding, who was in attendance on the second day of the meeting (September 14, 2011). David Goulding expressed his appreciation of the work performed by Planning Committee as well as the importance of the future efforts this committee has on bringing technical expertise forward to industry and policy makers.

Information Only

Development of Interconnection-Wide Models

Mark Lauby gave a presentation addressing the support efforts from an ERO perspective in addressing model validation and improvement. Mr. Lauby discussed the different study requirements needed to develop a plan to improve models based on priority lists. Based on information received from the MVTF, recommendations can be then shared with the different interconnection-wide modeling groups (*i.e.*, WECC, ERAG).

While no definitive timelines have been set by the group, information from the Model Validation Working Group is expected to be shared with the interconnection-wide modeling groups once Regional Executives have the opportunity to approve those recommendations.

Dan Rochester noted that forensic analysis should be included in the presentation material, as identified by ERAG.

Mark Westendorf questioned whether there will be NERC Reliability Standard implications associated with the model enhancement activities. Bob Cummings noted that while there are NERC Reliability Standards that do currently exist, the group will continue to review MOD 10 through 17 to ensure the standards sufficiently provide the means to share data for model development.

Update on ALR Activities

Mark Lauby reviewed the status report provided in the Agenda package.

TVA Tornado Damage

Tim Ponseti gave a presentation on the tornado storm damage that occurred across the TVA area on April 27, 2011. Tim presented the full extent of the damage as well as the restoration efforts that took place over the following month. A video was presented.

Surry Nuclear Power Station Tornado Event

Carl Eng (Dominion Power) made a presentation of the tornado event on April 16, 2011 that affected the Surry Nuclear Power Station.

Event Analysis Working Group (EAWG) Status

Jacque Smith provided a detailed overview of the EAWG work products during 2011. Ms. Smith requested that the presentation be incorporated into the minutes so that the PC members can take a detailed look at the EAWG results.

EAWG has published 17 lessons learned, with additional lessons learned to be released before the end of the year.

Through responses from the EA survey, EAWG has determined that there is a difference between event reporting and event analysis. EAWG has determined that they will rely on the EOP-004-2 NERC Reliability Standard for event reporting. EAWG continues to work with both improving the OE-417 reporting as well as providing a similar means for Canadian entities to report event occurrence details to NERC (this is not to be shared with DOE). The EAWG is also considering modifying EA language from “require” to “strongly encourage”.

Ms. Smith noted that the target completion date of the EA Process Document is October 1, 2011. Changes in the EA Process Document result in changes to the NERC Rules of Procedure, which will be submitted to the NERC Board of Trustees in November 2011. The NERC Board of Trustees is expected to consider these changes for approval in February 2012.

Jason Marshall provided a comment regarding publishing too many lessons learned that are not actionable, making important ones difficult to identify. Ms. Smith offered that in the near future, the EAWG’s lessons learned process will have a feedback loop to the industry to determine how helpful the lesson learned was.

Committee Matters

Recommendations on Consolidating Reliability Assessments and Performance Analysis Reports and Measures

John Moura reviewed the materials provided in the Agenda package. Mr. Moura noted that the annual Performance Analysis Subcommittee (PAS) report (name of the report TBD) will include analysis from ALR Metrics, IRI/SRI Metrics, TADS, GADS, DADS, Spare Equipment, Operations (Frequency), Security (CIP), and post-seasonal reliability assessments. He outlined the proposal for consolidating these reports and measures into the PAS report, expected to be released in April on an annual basis beginning in 2012.

Michael Pakeltis, Chair of the TADSWG, questioned whether a Section 1600 request to move TADS data collection dates to match the proposed PAS schedule would be needed. John Moura responded noting that the PAS report would conform to existing data collection dates and use the best available data while developing the annual report.

The PC had a discussion on including Spare Equipment analysis in the PAS annual reports. It was concluded noting the inclusion of Spare Equipment data in the PAS report would not divulge confidential information.

A motion to approve the recommendations on consolidating reliability assessments and performance analysis reports and measures was made by Dale Bermester and was unanimously approved.

PC Procedures for NERC Alerts

Mark Lauby reviewed the proposal provided in the agenda package. Dave Weaver made a motion to approve the process and the proposal was unanimously approved.

Appointment of PC Executive Committee (ExCom) Membership

Chair Mitchell requested two nominations for the PC ExCom. Mark Westendorf and Noman Williams were self-nominated to serve on the PC ExCom, along with continuing members, Stuart Nelson and Ron Mazur. Chair Mitchell accepted the nominations and welcomed the new members. Scott Helyer motioned to approve the nominations and it was unanimously approved.

PC Next-Steps and Future Work Plan Actions Required

Chair Mitchell announced the approval of the PC Strategic Plan by the NERC Board of Trustees. The plan disbands the following groups with the PC thanks and appreciation:

- Resource Issues Subcommittee
- Data Coordination Working Group
- Load Forecasting Working Group
- Loss-of-Load Expectation Working Group
- Reliability Fundamentals Working Group

The following subcommittees have a revised name, scope, and work plan:

- Transmission Issues Subcommittee is named the System Analysis and Modeling Subcommittee (SAMS)
- The Data Coordination Subcommittee and the Reliability Metrics Working Group merge, and is named the Performance Analysis Subcommittee (PAS)

The following Task Forces are converted to Working Groups:

- Model Validation Task Force (Reporting to SAMS)
- Demand Response Data Task Force (Reporting to PAS)
- Generator Availability Data System Task Force (Reporting to PAS)

The following working groups working groups now report to the PAS

- Transmission Availability Data System Working Group
- Events Analysis Working Group

Subgroup Leadership

Chair Mitchell offered proposals for new subgroup chairs. Action will be requested at the December PC meeting. The following considerations were reviewed:

- SAMS – Chair Mark Byrd
- PAS – Chair Bill Adams, Vice Chair Jerry Rust
- MVWG – Chair Jose Conti

- DRDWG – Chair Sharon Bauer
- GADSWG – Chair TBD (candidate has not yet been selected)

All other Subcommittee and subgroup Chairs and Vice Chairs are asked to serve out their current terms, to be no longer than two years from the time they started. If this two year term has already lapsed, then a new Chair/Vice Chair should be proposed to the PC in December.

Draft Scopes

Chair Mitchell referenced the draft scopes provided in the agenda package and pointed out that all PC subgroups scopes should be consistently formatted. Further, the scopes should contain 1) Purpose and Objectives, 2) Activities and Tasks, and 3) Deliverables. Approval of provided subgroup scopes as well as the formation of the Reliability Assessment Data Working Group (RADWG) will occur at the December meeting.

Chair Mitchell also suggested that PC members should be the chair of the subgroups and the committee should attempt to appoint as many PC members as possible into subgroup leadership roles.

Discussion on Meetings

Chair Mitchell reviewed the proposal of starting in 2012, PC to hold 3 meetings each year for 2 days (with ½ day for Joint Sessions) compared to 4 meetings for 1 day (with ½ day for Joint Session one time per year). Mr. Mitchell discussed with the committee the need to finalize the meeting plan by December so that preparations can be made for 2012. In their deliberations, Planning Committee members noted the need to be mindful of other meetings (e.g., NERC Board of Trustees and other State/Federal regulatory meetings) and travel logistics.

Merging of the Technical Committees (OC and PC) was also discussed. PC members noted that there are benefits when common issues exist. Another suggestion is to hold the Joint meeting in the middle of the CIPC and OC/PC meetings.

Ron Mazur suggested that the seasonal assessments do not belong in this committee—these are operational reports and the responsibility should fall on the Operating Committee. The leadership of the OC and PC jointly discussed this issue briefly in a separate meeting; and the OC will subsequently discuss it and provide feedback to the PC leadership.

No motion for a PC recommendation was held at this time and Chair Mitchell suggested the OC and PC ExCom bring a proposal to the technical committees in December.

Subgroup Reports

Reliability Assessment Subcommittee (RAS)

RAS Chair Mark Kuras and John Moura made a presentation on the RAS status and preliminary results from the *2011 Long-Term Reliability Assessment*. Mr. Kuras also expressed his thanks for chairing the

Data Coordination Working Group and noted the valuable contributions that group has made to the RAS.

The PC is requested to review and provide comment on:

- *DRAFT Special Reliability Assessment: Gas / Electric Interdependencies – PHASE I*
- *DRAFT Special Reliability Assessment: Gas / Electric Interdependencies – PHASE II - Work Plan*
- *DRAFT 2012 Special Reliability Assessment: Reliability Impacts of U.S. Environmental Regulations Scope*

Comments are due on various dates as described in the Action Items, Exhibit D.

The PC was requested to approve the *2010/2011 Post-Winter Reliability Assessment*. A motion to approve the report was made by Ron Mazur and unanimously approved.

Reliability Metrics Working Group (RMWG)

RMWG Chair Bill Adams made a presentation on the future of the RMWG (i.e., convergence into the PAS) and the 2012 PAS report. An update of ALR1-5 System Voltage Performance was given. Mr. Adams noted that a voluntary data request was sent out to 68 TOs, with no negative responses to date.

An update of the Integrated Reliability Index (IRI) was given. Mr. Adams discussed the development of the IRI to support risk informed decision making, support determining achievement of reliability goals, and assist in defining an adequate level of reliability. He also noted future items that need consideration, such as how PAS intends to consolidate GADS, TADS, and DADS metrics/reports, enhancing TADS metrics and coordination with the ERO-RAPA group for relay mis-operation information.

PC feedback on the RMWG responses to the comments received on the draft IRI whitepaper was requested by September 30, 2011. With PC's approval in June, the RMWG posted the whitepaper for comment and held a workshop in July. The RMWG plans to bring a final paper to the PC for approval at its December meeting, depending upon the feedback received on the whitepaper.

Ron Mazur requested clarification on the action item on the Agenda. Mr. Adams made clear that the RMWG was seeking comments on their responses to the comments that have already been made. The RMWG seeks guidance from the PC that they are on the right track and have adequately addressed the comments in fulfillment of the PC vision.

Geomagnetic Disturbance Task Force (GMDTF)

GMDTF Chair Don Watkins presented the status and background for the GMDTF. The primary concerns are related to transformer vulnerability, and a critical element determining the reference case to be used in preparation for surviving a geomagnetic event. The preliminary draft was discussed

at a high-level. Mr. Watkins continued his discussion in identifying what the most difficult items being discussed are at the task of the GMDTF.

Mr. Watkins noted the need for generator equipment subject-matter experts. He described the close coordination the group has with NOAA in support of achieving greater advanced notification. Geology models are starting to be used in the design specifications to help coordination with US Geological Survey. Mr. Watkins also discussed the necessity to potentially make decisions to protect the system should the worst case scenario materialize (i.e., extreme HILF events).

Mr. Watkins noted that the task force will provide a report that is expected to be available to the PC on October 3, 2011 for comment.

During the PC discussion, guest NERC Board of Trustees member David Goulding noted the seriousness of the potential recommendations of “shutting down the system” and suggested that these technical recommendations should be thoroughly considered. He also asked if there has been coordination with international groups, such as CIGRE. Mr. Watkins and Mark Lauby both provided feedback to the question noting that some coordination has been accomplished through the task force work, in particular with NOAA, and some members have attended meetings in Europe. The group agreed that more outreach should be undertaken by NERC in the future.

Jason Manala requested more information on what type of generator experts may be needed to support the objectives of the task force. Mr. Watkins responded, noting that the group is in need of expertise to review the work products and determine applicability.

Transmission Issues Subcommittee (TIS)

Bob Cummings, the TIS Staff Coordinator, discussed the *Interconnection Criteria for Frequency Response Requirements – Determination of Interconnection Frequency Response Obligations (IFRO)* report. The criteria are expected to provide input into the BAL-003 Standards Drafting Team, although the drafting team has already selected different criteria. Mr. Cummings reviewed the comparisons of different methods for IFRO calculations developed by the TIS and the Resources Subcommittee (under the OC). The Standard Drafting team approved and chose to proceed with the RS recommendation.

Mr. Cummings discussed the recommendations on transient stability analysis for each interconnection, to determine the maximum resource contingency size that can be sustained, while maintaining acceptable frequency performance and preventing actuation of the first-tier of regionally-approved UFLS trigger levels. Mr. Cummings noted that frequency response during peak times is high.

Mr. Cummings reviewed the recommendations in the report for approval by this committee.

Ron Mazur commented that the N-2 is not a DC bi-pole loss and requested that the event should be categorized as Category D, not C as the report describes.

Noman Williams asked whether the recommendation is a threshold (minimum obligation) or an average. Mr. Cummings noted that the recommendation is a minimum threshold.

Ron Mazur motioned to approve the report, with the changes noted by the PC members. Dan Rochester amended the motion, adding clarifying statements in the report. The motion was approved with two votes against.

System Protection and Control Subcommittee (SPCS)

SPCS Chair Jonathan Sykes gave a presentation to recommend the SPCS guideline for the use of circuit breaker position indication in breaker failure protection. Mr. Sykes noted that the background of this recommendation came from a breaker failure where the protection scheme did not operate as expected.

Mr. Sykes requested the PC members review and provide feedback on the SPCS guideline as well as outlined future work of the SPCS. Those comments are due to Phil Tatro by September 30, 2011. Mr. Sykes noted that a draft document will be submitted for approval in December.

Dave Weaver and Brian Keel questioned when “AND” and “OR” logics should be used, and noted that in different circumstances each could be used. Mr. Sykes noted that the group used the IEEE.37119 standard² to determine whether dependability vs. security should be used in the decision making. With either option chosen, a close look is needed to identify which logic scheme should be in place under specific circumstances.

Kevin Koloini questioned whether the SPCS received approval from IEEE to use their standard in the document. Mr. Sykes noted that the SPCS sent a letter to IEEE requesting the use of the document in their deliberations. The draft paper does not use extractions from the IEEE standard; therefore, copyright infringement is not an issue.

Spare Equipment Database Task Force (SEDTF)

SEDTF Chair Dale Burmester presented the Spare Equipment Database Final Report. The report and recommendations to proceed with the implementation of a spare equipment database in 2012 have been included on the agenda as an approval item. Mr. Burmester noted that the database is in support of the recommendations of the High Impact Low Frequency Report and initially the database will include transmission and generator step-up transformers to satisfy HILF events primarily; however, may provide information on a “double blind” inquiry for location of needed spares and may support NERC assessments. Ajay Garg commented that confidentiality is a major concern. As a response to this concern, a portion of the confidentiality agreement was presented to the members that describes what information will and will not be shared. Mr. Burmester also stated that coordination with the EEI STEP program is on-going and the SED will not affect any existing spare program. Brian Keel asked if the SED could include 230/69KV transformers and Dale responded the SEDTF would address that question at a future meeting.

² IEEE Std C37.113 - 1999 IEEE Guide for Protective Relay Applications to Transmission Lines

Noman Williams asked whether there is Regional Entity involvement in the process. Mr. Burmester confirmed that there is indeed Regional Entity involvement in the task force. Mr. Williams also asked whether or not there will be a mandatory request in the future for SED participation. Mr. Burmester noted that this will be a decision of the PC. Ajay Garg commented that the SEDTF should make it clear to prospective participant Transmission and Generation Owners that there is no obligation to include all spare transformers in the SED.

PC Chair Jeff Mitchell requested that the Transmission Owners Forum and the Generation Owners Forum be briefed on the Report and recommendations.

Dan Rochester motioned to approve the report and it was unanimously approved with one abstention.

PC Work-Product Delivery – Added Agenda Item for Discussion

Secretary Moura requested feedback from the PC on how to better deliver work products (e.g., agenda material, reports, presentations, etc.) to the committee considering the new PC leadership.

The following suggestions were raised:

- Post information brought to the meeting before it is presented, or during the meeting if developed “just in time”
- Organize/consolidate the web links instead of distributing them in the Agenda, Agenda Item, footnotes, etc.
- Identify items that have changed between first agenda posting and second agenda posting.

Adjournment

Chair Mitchell thanked David Goulding for attending, and encouraged continuing NERC Board of Trustee participation in future PC Meetings.

Chair Mitchell adjourned the meeting at 10:15 a.m. (Central).

Respectfully submitted,



John N. Moura, Committee Secretary