

Minutes Planning Committee

June 7, 2011 | 1–5 p.m.
June 8, 2011 | 8a.m. – noon

Marriott Toronto Airport
901 Dixon Rd
Toronto, ON

Planning Committee (PC) Chair Thomas C. Burgess presided over the meeting. The meeting notice, amended agenda, and list of attendees **Exhibits A, B, and C**, respectively. Meeting presentations, posted at <http://www.nerc.com/filez/pcmin.html>.

Administrative Matters

Welcome and Introductions

Chair Burgess opened the meeting and welcomed the attendees. He noted the excellent attendance at the meeting. Attendees were introduced.

Notice of Public Meeting

Secretary Connor 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

Secretary A. J. Connor reviewed the arrangements and schedules for the two days of the meeting.

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

Quorum

Of the PC's 34 total voting member positions available, the PC has two vacancies in the large end-use customer sector and two vacancies in the electricity marketer sector, leaving 30 active voting members. The meeting quorum (two-thirds of 30) was satisfied by 27 voting members or their proxies being present.

Antitrust Compliance Guidelines

Secretary Connor reviewed the NERC Antitrust Compliance Guidelines.

Future Meetings

The PC future meetings are scheduled as follows:

September 13–14, 2011	St. Louis, MO (confirmed)
December 13–14, 2011	Atlanta, GA (confirmed)

Approval of Meeting Agenda

Chair Burgess reviewed the meeting agenda and noted three items were being added (Agenda Items 5.a.iii, 5.d.i and 5.f.v) and the topic of one item (6.g.2) had been modified. He also noted agenda items will need to be discussed out of sequence due to the speakers' other commitments. Mr. Ron Mazur offered a motion that the agenda be approved as amended. The amended agenda was approved without dissent.

Consent Agenda

Secretary Connor discussed the changes that had been received for the posted Planning Committee Draft Minutes – March 8-9, 2010 (Phoenix, AZ). Mr. Stuart Nelson moved the minutes be approved with the noted changes. The minutes were approved without dissent, with the changes to be made by the Secretary.

Chair's Remarks - May 10-11, 2011 NERC Board of Trustees (BOT) and Member Representatives Committee (MRC) Meetings

Chair Burgess reviewed discussions at the BOT and MRC meetings and provided an overview of comments concerning the progress being made in the various NERC departments and the ERO organization. He noted that the MRC discussed the status of development of the BES definition and how the MRC could provide assistance on issues being raised. Chair Burgess said Mr. Tom Galloway provided the MRC an update on the facilities rating alert and reported that the industry's response had been very good. The NERC Business Plan and Budget were discussed. The increase in the budget was larger than some expected and was reflected in the re-posted budget. Both the board members, and the attending FERC commissioners, noted the progress being made by the ERO and the improved relationships between the regulator and the regulated. Mr. Cauley discussed the value proposition of the ERO – are we improving the value proposition by focusing on reliability and accountability while dealing with risks that are avoidable. Chair Burgess reported that Mr. Cauley said he was seeing progress in all areas and backlogs being reduced and urged the technical committees to insert

themselves in the analysis and determination of root causes for events occurring on the BES. A presentation by Don Benjamin, director, North American Transmission Forum, to the NERC Board of Trustees (BOT) covered the activities of the Forum as well as discussed preventing the duplication of activities and maximizing the use of the talent in both the Forum and the ERO.

Information Only

System Planning from a Canadian Perspective

Mr. Ric Cameron, Canadian affairs representative, NERC, discussed the electric power regulatory structure in Canada. He described the various level of regulatory authority, federal and provincial/territorial and pointed out that the Canadian provinces have primary authority regarding the markets in their areas and authority over ownership, and generation of electricity. Federal authority covers inter-provincial and international trade and commerce. The full nuclear cycle, from mining to generation to waste management, is also under federal authority. National energy policy focuses on fundamental market orientation, respect for provincial authority and targeted intervention to achieve specific objectives. The provincial regulators tend to focus on rate regulation and turn to the system operators and utilities for advice on technical issues. The Federal Energy Board issues permits for international power lines and for energy exports. It also produces long-term supply and demand outlooks, but focused primarily on price. The Federal Council of Ministers, composed of federal, provincial and territorial ministers, addresses high level issues, such as smart grid or east-west transmission, but does not tend to get involved at the planning level. A federal, provincial and territorial working group focuses on reliability issues and is the group that typically meets with FERC and Mexican counterparts. The Canadian Electricity Association is an advocacy group that addresses issues that have a national impact. This framework results in most planning activities and decisions occurring at the provincial level, with the federal authorities setting the framework. The provincial regulators tend to focus on rate regulation and turn to the system operators and utilities for advice on technical issues. Mr. Cameron also reviewed the activities currently occurring in the various provinces and federal legislative changes being enacted or considered.

Eastern Interconnection Wide Area SynchroPhasor Angles Baseline Study

Mr. Mahendra Patel of PJM, and Co-chair of the North American SynchroPhasor Initiative Planning Implementation Task Team, gave a presentation on baselining activities associated with the SynchroPhasor Project (posted for Agenda Item 4.b). The primary goals of the study were to investigate phasor angle differences across system busses and recommend limits for normal operation. The study examined the typical and atypical angle differences and how the angles differences changed as system conditions changed. The intent is to eventually provide an aide for operators in monitoring and alerting to abnormal conditions, as well as characterizing the abnormality. The study was funded by the Consortium for Electric Reliability Technology Solutions program of

the Department of Energy. PJM archives state-estimator snapshot solutions every five minutes, and consistent voltage phasor data for all system buses, which were used for the study. The recommended next steps include investigating methods of determining bus angle pairs to monitor and expanding the basic technique to include additional site pairs from a wider area.

Improved Processes and Procedures for Interconnection-wide Modeling

Mr. Mark Lauby, vice president and director of reliability assessment and performance analysis, NERC, gave a presentation on discussions and analysis going on within NERC the ERO and the industry concerning how to improve the existing interconnection models (posted for Agenda Item 4.c). He outlined the different types of events that raise issues regarding interconnection models and emphasized the importance of good models. He discussed the three existing interconnection models: Western Interconnection the Western Electric Coordinating Council (WECC); Texas Interconnection through the Electric Reliability Council of Texas (ERCOT); and Eastern Interconnection Reliability Assessment Group (ERAG), excluding Québec. Mr. Lauby outlined options for improving on the existing models, and discussed the approach selected. How to keep models current with all the system changes taking place and being planned, the efficiencies of model development, and deficiencies in existing models were discussed. Chair Burgess requested that a plan for the model development be mapped out and progress reports be made to the PC on timelines, progress, and issues that arise. Mr. Lauby agreed to report back to the PC on this in September.

Consolidating Various Reliability Assessments, Measures, and Reports

Mr. John Moura, manager of reliability assessments, NERC, discussed the major reports being provided to the PC for approval and note that there are six to eight reports that are routinely developed each year, each of which may be up to 200 pages. He discussed some of the ideas being considered concerning consolidation of reports and that ideas are still being generated. Questions were raised about whether it was necessary to schedule all of the reports around the BOT meetings or present all of the reports to the BOT. Mr. Moura also mentioned that some of the reports are required to be reported to FERC and require BOT approval. Mr. Moura stated that he would bring a recommendation to the PC September meeting on consolidating the various reports.

ERCOT February 2, 2011 Grid Emergency Events

Mr. Kent Saathoff, vice president operations and planning, ERCOT ISO, gave a presentation on the record-breaking arctic front that moved through Texas in February, 2011 (posted for Agenda Item 4.e). He discussed the preparations made for the expected storm and the unexpected loss of generation as the storm moved into the area. All types of generations was affected, except nuclear. As generation was lost, it eventually became an emergency situation. He noted that it was not the temperature that caused the problems; it was the wind chill. Mr. Saathoff described the Energy Emergency Alert (EEA) Process in ERCOT and emergency steps that were taken leading

to rotating outages in ERCOT. The ERCOT system responded as expected. As a follow up, ERCOT is reviewing the actions leading up to the emergency event and the handling of the event. This includes ERCOT being active in discussions related to the adequate weatherization of generation units, working with transmission providers to study the use of advanced meters for selective load reduction, and reviewing communications policies related to grid emergencies. ERCOT has already implemented changes that will provide automated notice to the State Operations Center (SOC) and the Texas Public Utility Commission and will implement a phone bank that will temporarily increase staff during emergency situations to respond to incoming calls. Mr. Saathoff mentioned that some of the major lessons learned were the need for wind protection on critical generation elements, the need for better communications procedures with all parties, and the need to protect fuel sources.

Committee Matters

Planning Committee 2-11-2016 Strategic Plan and PC Charter Revisions

Mr. Lauby gave a presentation on the development of the PC 2011-2016 Strategic Plan and changes to the existing PC Charter (posted for Agenda Item 5.a). The Strategic Plan had been reviewed at the PC March meeting and posted for comments, which were incorporated. He asked for approval by the PC for both documents. Mr. Stuart Nelson moved approval of the PC Strategic Plan and Charter as revised. The motion was approved unanimously.

Mr. Lauby also gave a presentation on the PC Strategic Plan – Next Steps and Future Work Plan (posted for Agenda Item 5.a.i) that describes a proposed reorganization of the PC subgroup structure and assignments to better align the PC organization with the new Strategic Plan. Mr. Lauby mentioned the document had been reviewed with the subgroup chairs and comments and suggested changes by the PC were requested by June 30, 2011, so the subgroups can start developing scopes before the PC September meeting. Vice Chair Jeff Mitchell discussed the review of the existing organization that was performed in developing the document, and mentioned that the document included specific questions remaining from the *ad hoc* team that developed the document. He requested the PC place emphasis on answering those questions as a part of the requested review. Several issues concerning the PC reorganization were discussed by the PC. The redlined PC Work Plan, used as a starting point to develop the PC Next Steps and Future Work Plan (posted for Agenda Item 5.a.i), was briefly discussed. The redlined document would be sent to the PC members as a reference for reviewing the new document.

Mr. Lauby presented an updated draft of a matrix of the NERC President's Top Priority Issues for Bulk Power System Reliability (posted for Agenda Item 5.a.iii) that outlined the assignments of the NERC standing committees as lead or support organizations for each strategic issue and the deliverables that had been identified for each issue. He noted

questions remained for some of the strategic issues, such as addressing the right-of-way maintenance issue. The Operating Committee (OC) being assigned as the lead committee for the issue was discussed. Chair Burgess noted that this was a starting point for looking at the issue and both the OC and PC will need to contribute. Mr. Lauby noted that he is expecting comments on the matrix from the other committees and NERC staff.

Revisions to the PC Report Approval Process and to the PC Charter

Secretary Connor presented a draft of the revised PC Report Approval Process and discussed the changes made to the process approved at the PC March meeting. He presented the procedure as an amendment to the PC Charter (posted for Agenda Item 5.b) and discussed the reasons for adding the process to the PC Charter. Secretary Connor also mentioned that a question had been raised concerning whether the process gave clear directions for PC approval of posting for comment of the various documents that come before the PC. Chair Burgess suggested a motion be made to approve the process as presented and the associated changes to the PC Charter. Mr. Mazur made the motion and it was approved unanimously.

PC Proposed Procedures for NERC Alerts

Secretary Connor presented an overview of the NERC Alerts process, proposed by Mr. Roman Carter, manager, situation awareness, NERC, during the OC/PC/CIPC Joint Webinar on May 31 (posted for Agenda Item 5.c). Secretary Connor and pointed out where a gaps exist between the proposed process and the principles the PC had previously identified as desirable for the process. He pointed out that the PC needs to decide whether the gaps are significant enough to require further discussions. Following those discussions, a proposal needs to be presented to the OC and the CIPC. Questions concerning how the subject matter experts would be identified and who would perform the review of alerts to decide what was needed from the industry were discussed. Chair Burgess discussed the proposal from Mr. Carter and recommended volunteers from the PC be identified to work with Secretary Connor to resolve the gaps identified. Mr. Dale Burmester and Mr. David Weaver volunteered.

Development of OC-PC-SC Proposal to Address Resolution of ALR-Reliability Principles

Mr. Lauby gave a presentation on the status of the bulk electric BES/ALR Policy Issues Task Force (posted for Agenda Item 5.d). The ongoing work on the bulk electric system (BES) definition and changes being considered in the NERC Rules of Procedure prompted the Member Representative Committee (MRC) to address improving the adequate level of reliability (ALR) criteria. A MRC policy group is looking at the issues, specifically how should cost/benefit be factored into ALR, how should cascading should be defined, and is the impact of all load loss equal. He discussed the role of a reliability task force to assist in this effort. Mr. Allen Mosher, Chair of the Standards Committee, will chair the task force and volunteers have been identified by the PC and the other standing committees. Mr. Lauby said he would bring status reports to the PC periodically.

Chair Burgess discussed the ongoing work on the definition of BES. He noted that the initial comment period for the draft BES definition had elapsed, but the initial comment period for inclusions and exclusions would end on June 10, 2011. The current proposal has a strong study component on what would be included or excluded, and comments would be appreciated. The potential cost of implementing and providing oversight for the current proposal was discussed.

NERC response to FERC sponsored report by LBNL

Mr. Lauby reviewed the development of NERC's comments, filed with FERC, on the FERC sponsored report prepared by the Lawrence Berkeley National Laboratory (LBNL) (i.e., *Use of Frequency Response Metrics to Assess the Planning and Operating Requirements for Reliable Integration of Variable Renewable Generation*) and five supporting papers (posted for Agenda Item 5.e). He said providing an outline of the areas of the LBL report NERC would address and requesting comments from the technical committees seemed to work well.

Elections of PC Chair and Vice Chair

Chair Burgess opened the PC election for the Chair and Vice Chair to serve from June 2011 to June 2013. He opened the floor for nominations for PC Chair and stated that Vice Chair Mitchell had been nominated for the position. Hearing no further nominations, Chair Burgess requested a motion to close the nominations. Mr. Mazur moved the motion, and the motion was passed unanimously. Chair Burgess stated that there being only one nomination, Vice Chair Mitchell was elected as the new Chair of the PC.

Chair Burgess opened the floor for nominations for PC Vice Chair to serve from June 2011 to June 2013. He stated that Mr. Ben Crisp, director, system planning and regulatory performance, Progress Energy Florida, had been nominated. Hearing no other nominations, Chair Burgess requested a motion to close nominations. Mr. Paul McCurley made the motion and it was unanimously approved. Chair Burgess stated that there being only one nominee, Mr. Crisp was elected as the new Vice Chair of the PC.

Parting Comments of Chair Burgess

Chair Burgess discussed the period he had served as PC Chair, and stated that through the efforts of all those who support the work of the PC, tremendous progress had been made, even beyond his expectations. He noted the elevating the quality of the reports, streamlining the organization, focusing on deliverables and maintaining the focus on priorities all contributed to the success of the PC. He was particularly proud of the adoption of the new PC Strategic Plan. He noted that the focus needs to continue to be on efficiency and conserving resources. He also noted that it was important to look back and realize that we stand on the shoulders of some very influential individuals who have served throughout the history of NERC as the Chair of the PC. He asked that a new

tradition of the PC be started to recognize the roughly past 20 PC Chairs. Chair Burgess presented the Chair-Elect Mitchell a framed scroll containing the names of all of the past PC Chairs and requested that future PC Chairs names be added, and the scroll passed on to newly elected PC Chairs. Chair-Elect Mitchell thanked Chair Burgess for the scroll, and presented Chair Burgess a plaque commemorating his service to the PC.

Subgroup Reports

Reliability Assessment Subcommittee (RAS)

RAS Chair Mark Kuras gave a presentation (posted for Agenda Item 6.a) addressing RAS activities and the reports for the 2010 Summer Reliability Assessment, 2010 Post-Summer Reliability Assessment, and the 2011 Summer Reliability Assessment. He also covered the historical and emerging reliability issues, and requested the PC provide feedback on the ranking of the top six issues selected by the RAS. He noted that an e-mail request would be made to the PC on June 16 with a response date of July 15. This will help point the RAS to any further analysis needed and recommendations to the PC. Mr. Kuras covered upcoming activities for the RAS. A special assessment of gas/electric Interdependency draft is being prepared to send out for comments, and the long-term reliability assessment (LTRA) is another major topic being addressed. He reviewed the schedule for the development and approval of the LTRA.

Reliability Metrics Working Group (RMWG)

RMWG Chair Bill Adams made a presentation on the 2011 Reliability Performance Analysis Report, integrated risk assessment concepts, and a request for a voluntary data request (posted for Agenda Item 6.b). He discussed the development of the annual reliability assessment and the enhancement in the current report. He requested feedback from the PC on the report by June 30, and stated that, depending on the comments received, the plan was to seek approval by the PC and OC of a final report in July 2011 via a conference call, so the report could be presented to the NERC Board of Trustees (BOT) in August.

Mr. Adams discussed the development of an integrated reliability index (IRI) to support risk informed decision making, support determining achievement of reliability goals, and assist in defining an adequate level of reliability. He described the concepts involved and provided an update on the Severity Risk Index (SRI), how to interpret the SRI and discussed the weighting factors used to develop the IRI. The whitepaper is posted at: http://www.nerc.com/docs/pc/rmwg/Integrated_Reliability_Index_WhitePaper_DRAFT.pdf. PC feedback on the whitepaper and approval to post the whitepaper for comment was requested. He noted that the RMWG planned to hold a workshop or webinar in July and bring a final paper to the PC for approval at its September meeting, depending upon the comments received on the whitepaper.

Mr. Adams addressed the progress on ALR1-5 and the coordination with the Reliability Coordinator Working Group (RCWG) to identify the busses to support the project. He requested approval of a letter from the PC and OC to the transmission owners (TO) of the busses, requesting the voluntary submittal of data to support the ALR1-5 studies beginning the fourth quarter of 2011.

Mr. Adams summarized the RMWG requests as follows:

- PC feedback on the 2011 Reliability Performance Analysis Report by June 30.
- Approve posting of IRI concepts whitepaper for public comment and provide feedback by June 30, 2011
- Approve the letter to the TOs requesting voluntary data submittals for ALR1-5

Mr. Crisp made a motion that all three items be approved. The motion was approved unanimously.

Integration of Variable Generation Task Force (IVGTF)

Mr. Lauby gave a presentation on NERC IVGTF 1-8 Reliability Impacts of Distributed Resources (posted for Agenda Item 6.c) to assess the potential adverse bulk system reliability impacts of distributed resources and evaluate whether distributed resources owners/operators should register as part of NERC's Functional Model. He noted that this was the third report on the project. A draft report had been issued for the third step and comments were requested by June 30, with the intent of bringing a final report to the PC for approval at the September meeting. Special attention needs to be paid to the issues related to registering distributed resources. Mr. Lauby covered the conclusions reached:

- high penetrations of distributed resources can adversely impact bulk system reliability
- the adverse impacts can be mitigated, but visibility and controllability is needed
- no specific recommendations are made for standards or registration, but steps are suggested to develop an analytical basis for understanding the magnitude of adverse reliability impacts, and changes to NERC standards that may be needed

Geomagnetic Disturbance Task Force (GMDTF)

GMDTF Chair Don Watkins made a presented on the status and background for the GMDTF (posted for Agenda Item 6.d). He noted that the GMDTF has approximately nearly 80 members, including equipment experts, utility engineers, and scientists, and government support from the United States and Canada for the work of the task force. Mr. Watkins reviewed the objectives of the task force and the schedule of deliverables, with a final report scheduled for the fourth quarter of 2011. 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.

Resource Issues Subcommittee (RIS)

RIS Chair Kevan Jefferies provided a status report for RIS (posted for Agenda Item 6. e) and noted that the primary activity was the development of the 2011 Probabilistic Assessment Report. He covered the schedule for the project and mentioned the draft report out for comments, the four metric reporting areas (MRA) that have agreed to participate in the pilot. The pilot will cover all of the North American major interconnections. Based on the results of the pilot, the assessment may be mandatory in 2012.

Mr. Crisp made a presentation on changes to GADSTF Report (posted for 6.e.2). He review the progress on the report and stated that after public comments were received, the design data requirement reduced to nine elements per unit, to allow GADS data to be matched with information collected in the Transmission Availability Data System (TADS) and to insure the continued quality of information collected by GADS. He reviewed the nine elements. Mr. Crisp addressed the modification of the unit capacity criteria and said the GADSTF was recommending including all generating units 50 MW and larger starting January 1, 2012 and all units 20 MW and larger starting January 1, 2013. He said that from a reporting standpoint, the GADSTF wanted to make the reporting as easy as possible, and data can be provided directly to NERC or a designated reporting entity like the TADS reporters use: a regional office, an independent system operator, or an association. He requested PC approval of the revised report and carrying the report to the BOT for approval. Mr. Noman Williams made the motion and it was approved unanimously.

Transmission Issues Subcommittee (TIS)

TIS Chair Mark Byrd discussed the TIS frequency response assignment scope of work (posted with the agenda package for Agenda Item 6.f. Attachment 1), with the assigned task of determining the maximum contingency levels each interconnection must withstand while maintaining acceptable frequency performance. The criteria developed are proposed to be used in the BAL-003 field trial. Mr. Byrd discussed proposed additional work 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. He also discussed an outline for future work to determine the maximum loss-of-load contingency that can be sustained while maintaining frequency performance and prevent tripping of resources. He also reviewed the proposed coordination with the OC, the Resources Subcommittee, the Frequency Response Working Group (FRWG), and the Frequency Response Standard Drafting Team. Mr. Byrd requested approval by the PC of the proposed scope of work. How the Québec interconnection was to be treated in the scope was discussed and it was agreed that the scope should be modified to state that the analysis would build on

the ongoing work for the Québec interconnection. A motion was made by Mr. Paul McCurley to approve the scope, as so modified. The motion carried unanimously.

Mr. Bob Cummings, director of system analysis and reliability initiatives, NERC, made a presentation on a proposed set of initial contingency criteria developed by TIS for interconnection frequency response requirements to be used in the BAL-003 field trial (posted for Agenda Item 6.f.1). He reviewed approach used in determining the proposed response requirements and reviewed the specific resource protection criteria considered. Mr. Cummings noted that probability-based criteria were also being researched for the BAL-003 field trial and outlined how the TIS proposed criteria would be used, and further analyzed, in the BAL-003 field trial. Mr. Cummings requested approval by the PC of the proposed frequency response criteria for the BAL-003 field trial. The use of different criteria for the interconnections was discussed. A motion was made by Mr. Jean-Marie Gagnon to approve the method presented for determining the frequency response criteria, with the condition that the same resource protection criteria (largest Category C event (N-2), largest total plant with common voltage switchyard, largest resource event in last ten years, or current performance) be used for all interconnections to determine the frequency response criteria for the BAL-003 field trial. The motion was approved unanimously.

Mr. Cummings discussed a request that the TIS work with the System Protection and Control Subcommittee (SPCS) to conduct an assessment of the special protection systems (SPS)-related to PRC standards and definitions of SPS, and document its findings in a report to the PC that can serve as a reference document for a standard drafting team. Mr. Cummings requested a motion to approve the joint effort with the SPCS. Mr. Dale Burmester made a motion for approval. The motion was approved unanimously.

Mr. Cummings also requested approval by the PC of posting for comments the procedures the Model Validation Task Force (MVTF) had provided as part of the meeting agenda package. Mr. McCurley move approval of posting the procedures for comment. The motion was approved unanimously. Mr. Cummings noted that, with the posting, there would be a slight change in the MVTF work schedule.

System Protection and Control Subcommittee (SPCS)

SPCS Vice Chair Bill Miller gave a presentation to address two items for which the SPCS was seeking PC approval (posted for Agenda Item 6.g). The two items were:

- Posting as final, the Transmission System Phase Backup Protection reliability guideline
- Development of a report, with the TIS, assessing SPS related standards and regional practices concerning SPS application

Mr. Miller provided an overview of the Transmission System Phase Backup Protection report and the comments received. He also discussed the conclusions presented in the

report and a recommendation that back-up protection systems be applied to large autotransformers to reduce the likelihood of damage due to prolonged through fault currents. Mr. Miller also mentioned the proposed work with TIS on SPS. Mr. Miller requested PC approval of the Transmission System Phase Backup Protection reliability guideline. Mr. Mazur made the motion and it was approved unanimously.

Transmission Availability Data System Working Group (TADSWG)

TADSWG Chair Mike Pakeltis gave a presentation on the evaluation of incorporating 100-199kV data into TADS (posted for Agenda Item 6.h.1). He covered the results of a survey among transmission owners comparing the 100-199kV voltage class inventory to all classes ≥ 200 kV now in TADS. The conclusions on data increases reached were: the number of participants in TADS would increase by over 60 percent, the number of circuits by 250 percent, and the number of transformers by 580 percent. The key point from the survey were: the average ratio of 100-199kV to ≥ 200 kV outages is 7.7 to 1 for circuits and 3.2 to 1 for transformers, and the ratio of non-automatic outages to automatic outages for the 100-199kV class is 7.6 to 1 for circuits and 3.6 to 1 for transformers. He also noted that 30 percent of the transmission owners do not collect 100-199kV Non-Automatic Outage information suitable to support webTADS. Mr. Pakeltis discussed the cost of collecting the additional data and noted that the variations in costs across the entities were very large. He reviewed the options for collecting the additional data, guidelines developed and questions yet to be decided. TADSWG is recommending utilizing the existing webTADS data structure for collecting individual outages and adding a new 100-199kV voltage class. Mr. Pakeltis requested the PC approve TADSWG to work on a draft request for comments (under Rules of Procedure 1600) on reporting 100-199kV outages in webTADS beginning January 1, 2014. The schedule for obtaining approval to collect the data and develop the capability to collect it was discussed, as well as the benefit of collecting data at the 100kV level. Mr. McCurley made a motion the PC approve the request, with the timing (“beginning January 1, 2014”) deleted. The motion was approved with two dissenting votes.

Mr. Pakeltis also discussed a request for supplemental analysis for TADS that was not included in the Reliability Performance Report. A supplemental paragraph will be sent out after the meeting with a request for comments and review with the Reliability Performance Report. A request was also made that the Equipment Performance Chapter of this report be carefully reviewed, since the information is new.

Demand Response Data Task Force (DRDTF)

DRDTF Chair Sharon Bauer gave a presentation (posted for Agenda Item 6.h.2) and provided a status update on the DADS activities. Ms. Bauer discussed the mandatory collection of data and reviewed the schedule. She also discussed the Open Access Technology International (OATI) contract to develop webDADS similar to the webTADS, and the planned user training. She stated the OATI work was about 40 percent complete and the first data is expected by to NERC in December.

Spare Equipment Database Task Force (SEDTF)

SEDTF Chair, Dale Burmester, provided a presentation (posted for Agenda Item 6.i). He pointed out that the SED is not a replacement for an equipment spare program, a spares pooling agreement, or an opportunity to forego spare investments by leaning on others. He stated that the SEDTF was recommending that participation be voluntary. Mr. Burmester discussed the interim whitepaper developed for PC review and covered the primary recommendations. He requested comments by June 29. He said the SEDTF is planning to provide a final whitepaper for approval at the September meeting. The SEDTF plans to develop a functional specification for use in selecting a SED vendor by September 30 and initiating a one-year program for participants in 2012. He noted that the most sensitivity area in the development was the treatment of confidentiality, but it appears to be resolved.

Event Analysis Working Group (EAWG)

Mr. Earl Shockley, director of event analysis and investigations, NERC, provided a status report for the working group. He noted that the event analysis field trial was currently in the second phase. The second revision of the process document is in effect and posted under the Event Analysis tab for Field Trial. The field trial started May 2, 2011 and runs for three months. The plan is to have a third version of the process by October and to address CIP in the final phase. Currently, EAWG has 51 submittals for lessons learned and has published six in the last month. Mr. Shockley reviewed the types of events that have been reported and stated there were no Category 5 events. Most of the events were Category 1 or 0.

Adjournment

Chair Burgess adjourned the meeting at 12 p.m. (Eastern).

Respectfully submitted,



A.J. Connor, Committee Secretary

From: [Elizabeth Merlucci](#)
 To: [AJ Connor](#); [Michelle Marx](#)
 Subject: FW: NERC ANNOUNCEMENT: Standing Technical Committee's Meetings -- June 7-9, 2011 - Toronto, ON
 Date: Monday, July 18, 2011 10:26:27 AM
 Importance: High

From: Elizabeth Merlucci
 Sent: Thursday, April 14, 2011 9:06 AM
 To: Elizabeth Merlucci
 Subject: NERC ANNOUNCEMENT: Standing Technical Committee's Meetings -- June 7-9, 2011 - Toronto, ON
 Importance: High



Meeting Announcement: Standing Technical Committee's Meetings June 7-9, 2011 | Toronto, ON

Meeting Location and Lodging
 Marriott Toronto Airport
 901 Dixon Rd
 Toronto, ON
 M9W1J5 Canada
 416-674-9400

Room Block Code: NERC - \$169 (CAD)/night group rate
 Room block available for: 6/6-9/2011 - (limited guest rooms available)
 Check-in: 3 p.m., Check-out: noon - Check with the hotel directly for early cancellation/departure fees
 Hotel cut-off date: May 16, 2011 NOTE: After the cut-off date the hotel will release this block of rooms and only accept reservations on a space-available basis at the prevailing room rate
 Dress Code: Business Casual

Group Name	Registration Link	Monday, June 6 Marriott Toronto Hotel	Tuesday, June 7 Marriott Toronto Hotel	Wednesday, June 8 Marriott Toronto Hotel	Thursday, June 9 Marriott Toronto Hotel
SIRTF		SIRTF 1 p.m. – 6 p.m. U Shape for 25 Room: Salon C	SIRTF 8 a.m. – Noon U Shape for 25 Room: Salon C		
EAWG		EAWG 10 a.m. – 7 p.m. U Shape for 20 Room: Dixon			
REMG			REMG Noon – 1 p.m. U Shape for 20 Room: Salons GH		
ERO-RAPA				ERO-RAPA Noon – 5 p.m. U Shape for 15 Room: Salon C	ERO-RAPA 8 a.m. – noon U Shape for 15 Room: Salon C
Operating Committee	OC Registration		OC Exec Committee: 10 a.m.–noon U Shape for 20 Room: British Columbia OC Working lunch Noon. – 1 p.m. OC: 1–5 p.m. Modified U shape (See diagram) Room: Salon D	OC: 7:30 a.m.–noon Modified U shape (See diagram) Same room as previous day Room: Salon D	
Planning Committee	PC Registration		PC Exec Committee: 10 a.m.–noon U Shape for 20 Room: Salon F PC Working lunch Noon – 1 p.m. PC: 1–5 p.m. Modified U shape (See diagram)	PC: 7:30 a.m.–noon Modified shape (See diagram) Same room as previous day Room: Salon E	

			Room: Salon E		
Critical Infrastructure Protection Committee	CIPC Registration			CIPC Executive Committee: 10 a.m.–7 p.m. Conference for 15 Room: Dixon <i>(actually runs 10am-noon and 5pm-7pm)</i> CIPC Working Lunch Noon – 1 p.m. CIPC: 1–5 p.m. Double U shape (See diagram) Room: Salon D	CIPC: 8 a.m.–noon Modified U shape (See diagram) Room: Salon D CATF: 1pm – 5 pm Existing Set up Room: Salon D

NERC will provide a working lunch for OC and PC on 6/7 and a working lunch for CIPC meeting on 6/8 at noon, prior to their respective committee meeting. Schedule includes other associated NERC meetings.

When making your hotel reservation, please be sure to mention "NERC" to get the preferred rate and ensure your reservation is credited to the NERC room block. The hotel will charge NERC a penalty if the total rooms blocked for this event are not picked up. Also, if you use a travel agency for your travel plans, please make sure the agency mentions NERC. For more information or assistance, please contact Liz Merlucci.

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Amended Agenda Planning Committee Meeting

June 7, 2011 | 1–5 p.m.
June 8, 2011 | 8–noon

Marriott Toronto Airport
901 Dixon Rd
Toronto, ON
M9W1J5 Canada
(416) 674-9400

1. Administrative*

- a. Welcome and Introductions – Chair Tom Burgess
- b. Notice of Public Meeting – Secretary
“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.”
- c. Arrangements – Secretary
- d. Parliamentary Procedures – Secretary
- e. Announcement of Quorum – Secretary
- f. NERC Antitrust Compliance Guidelines – Secretary
- g. Future Meetings – Secretary
 - i. September 13–14, 2011 – St. Louis, MO (confirmed)
 - ii. December 13–14, 2011 – Atlanta, GA (confirmed)
- h. Agenda Approval – Chair Burgess

2. Consent Agenda*

- a. Approve – [March 8-9, 2011 Draft PC Meeting Minutes](#) as final Minutes – Secretary

3. Chairman's Remarks

- a. Report on May 10–11, 2011 NERC Board of Trustees and Member Representatives Committee Meetings - Chair Burgess

4. Information Only*

- a. System Planning from a Canadian Perspective – Ric Cameron
- b. Eastern Interconnection Wide Area SynchroPhasor Angles Baseline Study – Mahendra Patel, PJM Interconnection
- c. Improved Processes and Procedures for Interconnection-wide Modeling – Mark Lauby
- d. Consolidating Various Reliability Assessments, Measures, and Reports – John Moura
- e. ERCOT February 2, 2011 Grid Emergency Events – Kent Saathoff, VP operations and planning, ERCOT ISO

5. Committee Matters*

- a. **Approval** – Revised draft of [PC Strategic Plan](#) and [PC Charter changes](#) – Mark Lauby / Vice Chair Jeff Mitchell
 - i. Review [PC Next -Steps and Future Work Plan](#) draft and comments received
 - ii. Discuss approval process for Work Plan and implementation plans
 - iii. Standing Committees assignments to Top Priority Reliability Issues – Mark Lauby
- b. **Approval** – Revisions to PC Report Approval Process and proposed changes to PC Charter – Secretary
- c. **Discuss** – PC proposed procedures for NERC Alerts – Secretary
- d. **Discuss** – Development of OC-PC-SC proposal to address resolution of ALR-Reliability Principles – [“BES/ALR Policy Issues Task Force”](#) – Mark Lauby
 - i. BES definition and elements for exceptions – Mark Lauby
- e. **Discuss** – NERC response to FERC sponsored report by LBNL, [“Use of Frequency Response Metrics to Assess the Planning and Operating Requirements for Reliable Integration of Variable Renewable Generation”](#) – Bob Cummings
- f. **PC Elections** – Elections of Chair and Vice Chair – Chair Burgess
 - i. Call for Chair nominations
 - ii. Election of Chair
 - iii. Call for nominations for Vice Chair
 - iv. Election of Vice Chair
 - v. Chair's remarks

6. Subgroup Reports*

	PC Action	Presentation
a. Reliability Assessment Subcommittee	PC to complete Risk Assessment by July 15, 2011	RAS Chair Mark Kuras/John Moura
1. Load Forecasting Working Group	Status Report	
b. Reliability Metrics Working Group	1. Feedback – 2011 Reliability Performance Report 2. Feedback and approve posting of Integrated Reliability Index (IRI) concepts whitepaper 3. Approve – Letter from PC/OC to request TOs provide data to support ALR1-5 System Voltage Analysis Performance for key BES nodes	RMWG Chair Bill Adams
c. Integration of Variable Generation Task Force	Provide comments on the report “Potential Bulk System Reliability Impacts of Distributed Resources” by June 30, 2011	Mark Lauby/IVGTF Co-Chairs John Dumas /Hardev Juj
d. Geomagnetic Disturbance Task Force	Status Report	GDMTF Chair Donald Watkins
e. Resource Issues Subcommittee	Review comments on response matrix and final GADSTF report	RIS Chair Kevan Jeffries
1. Loss-of-Load Expectation Working Group	Status Report	
2. Generating Availability Data System Task Force	Endorse report for BOT approval	GADSTF Chair Ben Crisp

f. Transmission Issues Subcommittee	<ol style="list-style-type: none"> 1. Approve - TIS Frequency Response Assignment Scope of Work 2. Approve - TIS recommendation of the frequency response criteria 3. Approve - TIS collaboration with the System Protection and Control Subcommittee (SPCS) on their review of standards related to Special Protection Systems and Remedial Action Schemes 	TIS Chair Mark Byrd/Bob Cummings
1. Model Validation Task Force	Approve – posting draft procedures for modeling development and validation	Bob Cummings
g. System Protection and Control Subcommittee	<ol style="list-style-type: none"> 1. Approve – posting of SPCS guideline: “Transmission System Phase Backup Protection” 2. Approve – Coordination with TIS to assess special protection systems standards and regional practices 	Vice Chair SPCS Bill Miller
h. Data Coordination Subcommittee	Status Report	DCS Chair Mark Kuras
1. Transmission Availability Data Systems Working Group	1. Approve TADSWG to work on a draft request for comments (under Rules of Procedure 1600) on reporting 100-199kV outages in webTADS beginning January 1, 2014.	TADSWG Chair Mike Pakeltis
2. Demand Response Data Task Force	Status Report	DRDTF Chair Sharon Bauer
3. Data Coordination Working Group	Status Report	

- | | | |
|--|---|----------------------------|
| i. Spare Equipment Database Task Force | Feedback - SEDTF white paper by June 30, 2011 | SEDTF Chair Dale Burmester |
| j. Smart Grid Task Force | Status Report | |
| k. Events Analysis Working Group | Status Report | EAWG Chair Jacquie Smith |

*Background material is included

Attendees
Planning Committee Meeting
June 7- 8, 2011

PC Officers

Chairman Thomas C. Burgess
Vice Chairman Jeffrey Mitchell
Secretary A. J. Connor

Voting PC Members

Investor-owned Utility - David Weaver
Investor-owned Utility - Teresa Mogensen
State/municipal Utility - Stuart Nelson
State/municipal Utility - Mark Bielat (P)
Cooperative Utility - Paul McCurley
Federal/Prov. Utility - Jean-Marie Gagnon (P)
Federal/Prov. Utility - Ron Mazur
Federal/Prov. Utility - Bing Young Federal/Prov.
Utility - Tina Ko (P)
Trans. Dependent Utility - Kevin Koloini
Trans. Dependent Utility - Tom Reedy
Merchant elec. Generator - Jack Cashin (P)
Merchant elec. Generator - Jason Minalga
Small end-use customer – Ed Pfeiffer (P)
ISO/RTO - Mark Westendorf
ISO/RTO - Dan Rochester
RRO/ERCOT - Jeff Billo (P)
RRO/FRCC - Ben Crisp
RRO-MRO - Dale Burmester
RRO-NPCC - Guy Zito (P)
RRO-RFC - Paul Kure
RRO-SERC - Russell Schussler
RRO-SPP - Noman Williams
RRO-WECC - Branden Sudduth
State government - Christine Ericson
State government – Parveen Baig (P)

Non-Voting Members

U.S. Federal – Jesus Sierra

PC Subgroup Chairs

Bill Adams, Chair RMWG
Mark Kuras, Chair RAS & DCS
Mark Byrd, Chair TIS
Kevin Jefferies, Chair RIS
K. R. Chakravarthi, Chair DCWG
Mike Pakeltis, Chair TADSWG
Vince Ordax, Vice Chair RAS
Sharon Bauer, Chair DRDTF
Bill Miller, Vice Chair SPCS

Guests

Barry Green, Barry Green Consulting, Inc.
Ray Kershaw ITC Holdings
David Grubbs, City of Garland
Heide Caswell, Pacificorp
Mahendra Patel, PJM
Jim Calore, Public Service Electric & Gas
Joe Spencer, SERC
Kevin Berent, SERC
John Odom, FRCC
Robert Entriken EPRI
Katie Schnider, Schweitzer Engineering
Laboratories
Nathan Mitchell, APPA
Michael Forte, Con Edison of NY
Joe Eto, LBNL
Michael Forte Con Edison
Jim Kelly, Power South Energy Cooperative

NERC Staff

Mark Lauby
Ric Cameron
Stuart Brindley (NERC Consultant)
Elizabeth Merlucci
Michelle Marx
Bob Cummings
Jessica Bian
Mike Curley
John Moura
Eric Rollison
Jim Robinson