

Minutes Planning Committee

March 8, 2011 | 1–5 p.m.

March 9, 2011 | 8a.m. – noon

Phoenix Convention Center & Venues
100 N. 3rd Street
Phoenix, AZ 85004

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

Administrative Matters

Welcome and Introductions: Chair Burgess welcomed Mr. David W. Weaver of PECO Energy, as a new IOU Sector representative on the PC, and recognized the proxies for several absent members.

Process for Nominating PC Vice Chair: Chair Burgess reviewed the PC Charter provisions for nominating and electing the PC Vice Chair at the PC June 2011 meeting and noted that nominations would be accepted at the meeting.

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.

Face-to-Face Meeting Reminder: 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.

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. The following proxies attended the meeting for absent voting members: Mr. Ibrahim El Nahas for Mr. Bing Young (Federal/Provincial), Mr. Tony Norris for Mr. Rick Pendergrass (Federal/Provincial), Mr. Jean-Marie Gagnon for Mr. Christian Dequire (Federal/Provincial), Mr. Marc Tunstall for Mr. Rick Anderson (State/Municipal), and Mr. Puesh Kumar for Mr. Kevin Koloini (Transmission Dependent Utility).

Antitrust Compliance Guidelines: Secretary Connor reviewed the NERC Antitrust Compliance Guidelines.

Future Meetings: The PC future meetings are scheduled as follows:

June 7–8, 2011	Toronto, ON (confirmed)
September 13–14, 2011	St. Louis, MO (tentative)
December 13–14, 2011	Atlanta, GA (tentative)

Approval of Meeting Agenda: Chair Burgess reviewed the meeting agenda and noted that two items were being added (Agenda Items 5.i and 5.h) and noted that the timing of some agenda items may have to be discussed in different sequence to accommodate the schedules of the presenters. Mr. Ron Mazur, manager, system planning department, Manitoba Hydro, offered a motion that the agenda be approved as amended. The amended agenda was approved without dissent.

Consent Agenda: Secretary Connor stated that no comments had been received on the posted Planning Committee Draft Minutes - December 7–8, 2010 (Tampa, FL). Stuart Nelson, manager, asset development, Lower Colorado River Authority, offered a motion that the minutes be approved. The minutes were approved without dissent, with noted editorial changes to be made by the Secretary.

Chair's Remarks

Highlights of the February 16–17, 2011 Member Representatives Committee (MRC) and Board of Trustees (BOT) Meetings:

Chair Burgess noted the MRC and BOT meetings were focused on strategic planning and the alignment needed to improve emphasis on priority, focus and balance.

During the BOT Standards Oversight and Technology Committee (SOTC) open meeting, the Standards Committee's priorities and strategic goals were presented, along with the results of the priority tool.

The BOT Compliance Committee (BOTCC) discussed efforts to improve efficiency in the Compliance Application Notice (CAN) process and the Compliance Analysis Reports (CAR) efforts to describe factors contributing to the most violated standards. A forward looking effort is being initiated to facilitate implementation of new standards without the 'bow-wave' of initial violations, including a considering a trial period for standard compliance.

Chair Burgess presented the Risk Based Reliability Compliance concept at the BOT meeting. The concept was endorsed as consistent with the NERC Strategic Plan, and it was recommended that the concept be integrated into the plan as an objective. Gerry Cauley, NERC president and CEO, suggested a need for Compliance and Certification Committee involvement. The BOT and NERC management agreed that the concept should be refined and advanced, and coordinated with FERC and other regulators.

Roy Thilly was elected as a NERC Trustee and NERC Trustees Janice Case, Fred Gorbet, and Paul Barber were re-elected. Jim Goodrich retired from the board due to term limits.

Mr. Cauley reported on the FERC Technical Conference, titled *Priorities for Addressing Risks to the Reliability of the Bulk Power System*, held on February 8, 2011, focused on reliability priorities and continuing to improve reliability while delivering value to customers. The cost, benefits, and value component of the equation was discussed and an annual 'state of reliability system' summit with FERC was suggested, with the key focus on:

1. Updating ALR definition: load loss vs. cascading outages.
2. BES definition resolution.
3. Strategic Planning Process: four–seven strategic goals to drive objectives and tactics: a reliability technical focus needed with feedback from technical committees.
4. Expedited Reliability Standards development: consider forming small teams of SME, legal, regulatory, and compliance individuals to focus development, and then move to open stakeholder process. The pace of standards development is largest risk to the ERO.

Mr. Cauley also discussed the recent cold snap in TX, NM, and AZ: NERC's review of issues, causes, etc. with an eye to minimize the potential impact on reliability. FERC and others have launched similar reviews. The Facility Rating Alert was discussed. Thus far there has been good entity initial plans, progress, and are now on progressive path to address corridor clearances.

Herb Schrayshuen, NERC vice president and director of standards, reported on the Bulk Electric System definition development. The approach is to generally

encompass all facilities necessary to operate the interconnected transmission network, eliminate regional discretion, and draw a 100 kV bright line. The Standard Drafting Team received 82 comments on the SAR, with key issues being: 1) scope of BES below 100kV (small resources) and 2) exemption process (modeling/studies processes need definition).

At the FERC Technical Conference, Mr. Cauley discussed formulating key reliability topics and proposed top eight issues. The next step is to prioritize and refine the Compliance Monitoring and Enforcement Program and audit programs to look at the most reliability significant aspects. The results of lessons learned from 160 events should be considered to guide reviews and evaluations, and eventually be replaced with hard data from TADS, GADS, and DADS.

Tom Galloway, NERC senior vice president and chief reliability officer, and Gerry Adamski, NERC director of situation awareness, reviewed the alert development process. An interim approach will be released in the first quarter of 2011 and changes to the NERC Rules of Procedure (RoP) will be recommended by the end of 2011. The objectives are to improve the alert system functions, the use of alerts, the distribution protocols, and after action reviews.

Dave Nevius, NERC senior vice president, addressed the various metrics activities being pulled together into an integrated approach. There are three basic efforts: bulk power reliability indicators, compliance performance metrics, and effectiveness metrics. The intent is to consider system events, reliability condition, standards, and organizational effectiveness, to drive elements to enhance reliability. The initial integrated reliability performance draft report will be provided in June 2011.

Mr. Cauley discussed the ERO Strategic Plan 2011–15. The plan describes seven overarching goals and 85 tasks. The goals include: 1) clear results based Standards that provide for an Adequate Level of Reliability, 2) owners-users-operators (O/U/O) reflect culture of learning/reliability excellence, built on compliance/risk management, 3) develop reliability performance measures/high quality assessments-emerging issues, 4) O/U/O effectively manage risks from cyber/physical attacks and HILF, 5) Independent efficient CMEP to provide feedback/incentives to registered entities, 6) execute statutory functions with Regional Entities collaborative/efficiently, and 7) exceptional reputation/trusted leader of reliability, high confidence. Mr. Cauley discussed meeting with the National Lab's, DOD, and ESCC, for a policy level discussion and to produce a set of initiatives that enhance credibility around security. These include partnering with NIST-DOE on some standards, and resolving with DHS-FERC-DOD-DOE what range of scenarios we are protecting against, including military installations. The national labs have developed certain aspects related to training, cyber certification, and network security

monitoring, while NERC is increasingly providing sound insight and guidance on these matters. An open policy item involves resolving the appropriate roles of government and industry entities.

Information Only

Using SynchroPhasors to Improve Dynamic Models of Electrical Loads: Mr. Dmitry Kosterev, Bonneville Power Administration, gave a presentation (posted for Agenda Item 4.a) to provide an update on the North American SynchroPhasor Initiative (NASPI). The presentation described the need for, and development of, dynamic load modeling. Mr. Kosterev pointed out that static load models are no longer adequate. He described the impact of fault-induced delayed voltage recovery (FIDVR) events, and the differences between measurements made by system control and data acquisition systems, such as supervisory control and data acquisition (SCADA) and phasor measurement units (PMU). Mr. Kosterev also discussed the need for additional PMU-quality recordings of faults and FIDVR events in large load centers for load model validation. Ms. Alison Silverstein, project manager, North American SynchroPhasor Initiative (NASPI), provided an update on meeting plans for NASPI and the development of a five year roadmap. NASPI will be meeting June 8–9, 2011 in Toronto.

Sub-Synchronous Resonance and Controls Interaction: Bob Cummings, NERC director of system analysis and reliability initiatives, gave a presentation (posted for Agenda Item 4.b) on issues associated with sub-synchronous resonance, torsional interactions, and control instability associated with the use of series capacitors, power electronics, and wind turbines.

Mr. Paul Hassink, director west transmission planning, American Electric Power Service Corporation (AEPSC), discussed considerations associated with exposure of generation to Sub-Synchronous Resonance (SSR) and Sub-Synchronous Control Instability (SSCI) in ERCOT related to series compensated transmission lines (posted for Agenda Item 4.b). Mr. Hassink identified the interconnection issues, described events that had occurred and discussed possible resolutions. Mr. Cummings discussed the need for a whitepaper on SSR, SSTI, and SSCI, with a compendium of references on the subject matter. Dale Burmester, manager, major projects/transmission planning, American Transmission Company, LLC. and PC member made a motion that the Transmission Issues Subcommittee (TIS) develop the whitepaper. The motion carried without dissent.

NLE 2011: Matthew Light, Department of Energy (DOE), presented the National Level Exercise (NLE) 2011 for the New Madrid Earthquake Scenario to be performed the week of May 15, 2011 (posted for Agenda Item 4.c). The exercise will involve federal, state and local government officials, the private sector, and the general

public. This exercise has been preceded by the Memphis Earthquake Workshop, involving several utilities exchanging best practices, and the State New Madrid Seismic Zone Webinar to provide information to the affected states. Mr. Light offered to provide a copy of the Workshop report to the PC.

Reliability, Survivability, and Resiliency-Self Assessment Tool (RSR-SAT): Mr. Light gave a presentation (posted for Agenda Item 4.d) on a pilot test of RSR-SAT being performed by the U.S. Department of Energy (DOE) Office of Electricity Delivery and Energy Reliability and follows a number of onsite assessments performed with the National Guard. Mr. Light pointed out that the pilot assessment was intended to be a less intrusive, voluntary program, focused on improving the understanding of the supply chains, the physical infrastructure, and business operations. The pilot working group would be established in about a month and would involve a group of less than 10 companies. He offered to send the PC a scoping document.

Committee Matters

NERC President's Top Priority Issues: Mark Lauby, NERC vice president and director of reliability assessment and performance analysis, presented a matrix of the NERC President's top eight priority issues for bulk power system reliability (posted for Agenda Item 5.a), and discussed recommended roles, primary and support, for the technical committees and subcommittees. Discussion focused on the basis of the selection of the top eight from the list of over 80 issues identified. It was suggested that a lists be developed of the top eight issues the PC is now addressing, and the top eight issues the PC is not now addressing. Mr. Lauby agreed to send the matrix and additional background information to the PC members and requested the PC members provide their comments by March 31, 2011.

ERO Strategic Goals: Mr. Lauby presented a draft of the ERO Strategic Goals through 2015 prepared by NERC and the Regional Entities (posted for Agenda Item 5.b) and discussed the areas being concentrated on by NERC staff. The timing of work on the various issues was discussed and it was suggested that the PC Strategic Plan Ad Hoc Team develop recommendations on priority and timing for presentation at the PC June 2011 meeting.

PC Report Review and Approval Process: Secretary Connor presented the draft Process for Planning Committee Approval of Reports developed by the PC Executive Committee (posted for Agenda Item 5.c) and requested PC approval of the process. Scott Helyer, vice president, transmission, Tenaska, Inc., offered a motion that the process be approved. The process was approved without dissent, with a proviso that the process be clarified to indicate that the PC will only endorse the use of NERC's Rules of Procedure Section 1600 – Requests for Data or Information requests for those reports initiated by the PC.

Draft Planning Committee Strategic Plan: Jeff Mitchell, PC vice chair, reviewed the draft PC Strategic Plan (posted for Agenda Item 5.d) developed by the PC Strategic Plan Ad Hoc Team and pointed out the correlation with the NERC ERO strategic plans. Suggestions were made to consider adding communications as a strategic issue, clarify that references to resources included transmission in addition to generation, and ensure that timelines developed for the strategic plan line up with the NERC ERO strategic plans. The strategic plan should be reviewed with the other NERC standing committees before being presented to the NERC BOT. Mr. Mitchell discussed the next steps required to complete the strategic plan and to develop any necessary modifications to the PC Charter. Stuart Nelson offered a motion that the PC Strategic Plan Ad Hoc Team complete the development of the PC Strategic Plan and present the plan to the PC for approval in June 2011. The motion was approved without dissent.

PC Proposal on NERC Alerts: Mr. Adamski gave a presentation on NERC Alerts Development – Draft Framework for Industry Engagement (posted for Agenda Item 5.e). He reviewed the interim approach being taken and noted that modifications to the NERC Rules of Procedure to accommodate a final procedure are to be completed by year end. He also discussed the need to develop a list of subject matter experts by topic and ensure they have the necessary security clearances to participate in alerts. Chair Burgess addressed the need to review the PC draft proposal on alerts and the draft framework presented by Mr. Adamski and develop a practical proposed process that would align the elements of the respective proposals. He asked the PC Executive Committee to follow up and revise the PC alert proposal as necessary. He also asked the PC members to provide comments on how best to develop and maintain the subject matter experts needed. Mr. Lauby asked the membership provide volunteers for the current NERC GMD Alert.

Initiative to Develop Proposal on Adequate Level of Reliability: Chair Burgess discussed recent activities and discussions at technical conferences regarding the definition of, and metrics for, an adequate level of reliability (ALR) for the bulk power system. He noted that the determination of a definition for ALR was linked to efforts to define the Bulk Electric System. He pointed out that discussions at recent technical conferences focused on resolving issues most important to reliability and some approaches were very costly. Therefore, the time was right to form a joint group from the Operating Committee, Standards Committee, and the PC with an objective of refining the description of ALR, integrating the Reliability Principles, and seeking approval from the NERC technical committees, the NERC Board of Trustees, and FERC. Chair Burgess requested comments and observations from the PC members and asked for volunteers to serve on the joint group. Jeff Kaman, manager, energy section, Iowa Utilities Board, agreed to provide a volunteer from

the State Government sector. Mr. David Weaver from the Investor Owned Utility sector, Mr. Russ Schussler from the Regional Reliability Organization sector, and Vice Chair Mitchell volunteered.

Comprehensive Plan to Address Frequency Response: Mr. Cummings addressed the need to assemble a steering committee on frequency response and the need for volunteers from the PC to work with the volunteers from the Operating Committee. Subject matter experts are needed on frequency response and governor models. The PC discussed the activities on frequency response issues and whether there were other issues that needed to be addressed. It was noted that an important issue that needs to be addressed now is the acceptable level of frequency response for each of the Interconnections and on what contingency or other criteria should those levels be based. The relationship of this issue to the Lawrence Berkeley National Laboratory study was discussed as well, since that study outlines the elements of the issue and why a decision is needed. Chair Burgess asked the Transmission Issues Subcommittee to take the lead and recruit the other volunteers, as needed, to develop a recommended scope covering what criteria should be used to decide the appropriate level of interconnection-wide frequency response, and other related issues that need to be addressed. A draft of the scope is to be provided to the PC Executive Committee's for consideration in the next four to six weeks.

Comprehensive Comments Responding to FERC Report on LBNL: Director Cummings discussed the draft NERC comments being developed in response to the FERC report on the Lawrence Berkeley National Laboratory (LBNL) study. He agreed to send the NERC comments to the PC by the end of March, 2011 for review and comments by the PC. The response to FERC is due by May 6, 2011.

BES Definition Activities: Vice President Lauby discussed the comments related to defining the BES sent to the Operating Committee and PC for review and noted that responses were needed within two weeks. He also discussed the work of the Standards drafting team and RoP revisions group and the need to have a standard and RoP changes developed by year end.

Coordinated Action Plan - Critical Infrastructure Strategic Initiatives: Stuart Brindley, NERC consultant for the Electricity Sub-Sector Coordinating Council (ESSC), gave a presentation on the Coordinated Action Plan developed by the Joint Action Group (posted for Agenda Item 5.j). The Joint Action Group and the Coordinated Action Plan provide the organizational structure to work on the High Impact- Low Frequency (HILF) issues. Mr. Brindley pointed out that the Joint Action Group was committed to making rapid progress in identifying issues to be resolved. The task forces are being established, along with a work plan developed. The objectives are

being developed and work on solutions is beginning. Alternative solution on GMD issues are expected to be delivered in 2011, followed by solutions for other HILF issues in 2012 and 2013.

Committee's Appreciation Letter: Mr. Jean-Marie Gagnon, project manager interconnected networks assets planning, Hydro-Quebec TransEnergie, introduced a motion that the PC thank John Seelke, former PC secretary, for his service. The motion was approved, without dissent, with the proviso that Mr. Gagnon and Chair Burgess would develop the wording of a letter to be sent to Mr. Seelke on behalf of the PC.

Subgroup Reports

Reliability Assessment Subcommittee (RAS): RAS Vice Chair, Vince Ordax, gave a presentation (posted for Agenda Item 6.a) addressing RAS activities associated with the Gas\Electric Interdependency Special Assessment, the 2011 Long-Term Reliability Assessment- Emerging Reliability Issues, and the Reliability Assessment Approval Webinars. Mr. Ordax pointed out that the objective of the Gas\Electric Interdependency Special Assessment was to review gas and electric interdependencies, assess challenges, identify areas of high vulnerability, and determine recommendations for enhancing reliability. He requested a review of the draft scope of the study and comments study design, scope, and methods by March 22nd. (see posting <http://www.nerc.com/docs/pc/ras/DRAFT2011GasStudyScope.pdf>). Comments should be submitted to: assessments@nerc.net.

Mr. Ordax reviewed the status of the 2011 Long-Term Reliability Assessment (LTRA) and pointed out that the RAS was developing and prioritizing a list of specific emerging issues to be addressed. He requested input from other PC subgroups on the emerging issues assessment, and stated that the RAS will submit the top issues to the PC for their risk ranking at the June Meeting, and the LTRA would be presented to the PC at the September meeting.

Mr. Ordax reviewed the RAS proposals to enhance the seasonal reliability assessment approval process and noted the RAS is recommending a special dedicated web conference for approval of the assessments, following a reasonable comment and review period. The proposed schedule for the web conferences are as follows:

2011 Summer Reliability Assessment	May 13, 2011
2011 Long-Term Reliability Assessment	October 11, 2011
2011/2012 Winter Reliability Assessment	November 8, 2011

Mr. Ordax requested approval of the conference dates. Chair Burgess requested the RAS ensure the PC has the proposed assessments two weeks prior to the conferences. Mr. Nelson made a motion that the conference dates be approved. The motion passed without dissent.

Reliability Metrics Working Group (RMWG): Jeff Mitchell, vice chair, gave a presentation on Reliability Metrics and Integrated Risk Assessment (posted for Agenda Item 6.b) covering the refinement of the Severity Risk Index (SRI), the development of an Integrated Reliability Index (IRI), and an annual State of Reliability report to communicate the effectiveness of reliability improvement programs and provide an integrated view of risk. He noted that the SRI concepts and framework was approved by the Operating Committee and PC in September 2010. Refinements are based on TADS and Electricity Supply & Demand (ES&D) data, interconnection daily peak loads, and sensitivity studies using 2008 and 2009 outage and event information.

The objective for development of an IRI is to identify measures for determining achievement of reliability goals, provide reliability improvement measures, and provide goals that define an ALR. The IRI will incorporate three factors: (1) Key Reliability Indicators (MI) - metrics covering major factors impacting reliability, (2) an Event Risk Index (RI) - risk associated with major events, and (3) a Compliance Index (CI) – Reliability Standards that have high levels of impact on reliability. Mr. Mitchell discussed the efforts underway to develop the three factors and outlined the future work for the RMWG.

Mr. Mitchell reviewed the scope of the development of a State of Reliability Report/Reliability Performance Report and noted that the intent was to provide quarterly updates on a website, publish an annual report, and provide annual webinars to discuss the assessment of bulk power system reliability performance and metrics. The intent is to provide an integrated view of risk, covering critical infrastructure protection, Reliability Standards Development, and compliance event analysis. He reviewed the work plan and indicated a draft of the report would be provided to the Operating Committee and PC for review in June 2011.

Mr. Mitchell requested the PC approve SRI refinement and scope change, including a change in the name of the report. He also requested feedback on the IRI concept. The PC discussion issues related to combining the three IRI factors vs. tracking all three to gain experience. Mr. Lauby committed to have NERC staff provide suggestions to the PC at the June meeting. Mr. Stuart Nelson offered a motion endorsing the refinement of the SRI. The motion was approved without dissent. Mr. Noman Williams made a motion that the scope be changed, including a change in the report name. The motion was denied. Chair Burgess asked the RMWG to

consider how the SRI/IRI should be reported and bring any needed change in scope to the June meeting.

Mr. Mitchell reviewed the coordination with the RCWG on ALR1-5 and the need to collect data associated with identified key 345 kV and above buses/nodes and the associated TOs/TOPs. He said the RMWG recommends the Operating Committee and PC write a letter to the TOs/TOPs for voluntary data submittals starting 3rd quarter of 2011. The PC approved the request to write a letter with the Operating Committee.

Integration of Variable Generation Task Force (IVGTF): Mr. Lauby discussed the report included in the meeting agenda materials (posted for Agenda Item 6.c). The report discusses the known characteristics of regional variable generation and practices to predict variable generation output potential and capacity contribution during peak-demand hours, and provides a framework for determining the contributions and best use of variable generation on the bulk power system. Mr. Lauby requested approval of the report for posting. Mr. Russell Schussler made a motion that the report be approved. The motion passed without dissent.

Geomagnetic Disturbance Task Force (GMDTF): GMDTF Chair, Don Watkins, presented a GMDTF status presentation (posted for Agenda Item 6.d.1). He reported that the GMDTF had held its first face-to-face meeting on February 28–March 1, 2011 and outlined the task force deliverables in 2011. In addition, the GMDTF subgroups and NERC staff are developing a list of prevention and mitigation steps to counteract geomagnetic disturbance events and working on an industry wide conference to address this issue in April 2011.

Generating Availability Data Systems Task Force (GADTF): GADTF Chair, Ben Crisp, gave a presentation on Mandatory Reporting of Conventional Generation Performance Data – GADS (posted for Agenda Item 6.e.3) and discussed the need to understand how the changes resource mix and performance impacts planning reserve margins. He pointed out that understanding the performance of existing and new types of resources is necessary in determining the reliability of the bulk power system and approximately 300 GW is not currently reported to GADS, and approximately 50 percent of generation added in 2000–2008 is not reporting. Mr. Crisp outlined a schedule to start collecting the data in the first quarter of 2012, and requested the PC approve the report *Mandatory Reporting of Conventional Generation Performance Data* to be posted as a NERC RoP Section 1600 request for industry comments. Discussion by the PC pointed out several concerns about expanding mandatory data requests into the equipment level, usefulness of the additional data for various studies, and coordination among the regions to avoid duplication of requests. The importance of a designative reporting entity (e.g.,

Canadian Electric Association or Independent Service Operators) being able to provide information on behalf of stakeholder groups was also discussed. This was duly noted and will be added to the final data required. Mr. Helyer offered a motion to approve posting the report as a Section 1600 request for comments, though the PC does not endorse the report at this time. The motion passed without dissent. The GADSTF was requested to provide a review of the comments received at the PC June meeting.

Transmission Issues Subcommittee (TIS) and its subgroup, the Model Validation Task Force (MVTF): TIS Chair, Mark Byrd, provided a status report for the TIS and the MVTF. He noted that a task team had been formed to review MOD-010 through MOD-015 and prepare recommendations and measures for a SAR, plans to partner with WECC on a modeling workshop in June, and to hold two modeling workshops before the end of 2011.

Mr. Cummings gave a presentation on the MVTF work plan progress and changes (posted for Agenda Item 6.f.1). The work plan tasks on powerflow and dynamics validation procedures are to be posted for comments in April, 2011 and are expected to be presented to the PC for approval at the June 2011 meeting. The tasks on operational planning - offline models procedure draft is expected to be posted for comments in April and brought to the PC for approval in December, 2011. Schedules had changed for several future tasks.

System Protection and Control Subcommittee (SPCS): SPCS Chair, Jonathan Sykes, provided a status report for the subcommittee. The SPCS posted the guideline, *Transmission System Phase Backup Protection*, for industry comment in January and the comment period ended on February 28. The SPCS plans to review the comments and submit a document for approval by the PC at the June meeting.

The completion of a white paper, with TIS, on the response of protective relays to power swings, has been extended until September 2011 due to work on the Relay Loadability Order and other activities. SPCS and TIS have identified methods that may be useful in identifying transmission lines subject to tripping during stable power swings and system simulations are being performed to screen the methods.

A SPCS sub-team reviewed breaker failure issues, based on the October 10, 2010 Lesson Learned, and related IEEE guides, and concluded that IEEE guidance on this subject is appropriate. The sub-team is drafting a report for consideration at the June 2011 PC meeting.

The SPCS provided technical support, and proposed misoperation categories and cause codes, to the ERO-RAPA Group developing a common template to be used in all regions for misoperation reporting.

Data Coordination Subcommittee (DCS): DCS Chair, Paul Kuras, provided a status report. The subcommittee continues to work on resolving conclusions in the whitepaper concerning the detail to include in simulation models and who should be responsible for submitting the modeling data. The DCS and TIS are examining the MOD Reliability Standards to determine who will be collecting data.

Transmission Availability Data System Working Group (TADSWG): TADSWG Chair, Mike Petalkis, provided a status report. TADSWG is still evaluating options for incorporating 100-199kV data collection based on EIA's intent to collect such data and an anticipated revision to the BES definition. Issues have been raised regarding the approved timeline for a Section 1600 Major Change not being responsive to the EIA-411 2014 proposal for collecting 100-199kV data. An expedited change process or a delay in the data collection for one year by the EIA would be required. Three dimensions to collecting 100-199kV data have to be considered: the best platform to collect the data, the elements that should be reported, and, which outages are to be reported. The TADSWG has decided to survey registered transmission owners to determine the impact for reporting 100-199kV outage data. The results of the survey will be evaluated at the upcoming May 2011 TADSWG meeting. The TADSWG will bring an action item to the June PC meeting to determine how or if to proceed with collecting the data at that time.

The TADSWG 2010 calendar year reports (NERC and 8 Regions) will be the first to include Automatic and Non-Automatic Outage data and are now targeted for presentation for approval at the September 2011 PC meeting. The requirement for additional data validation, preparation, and publication time necessitated the delay into the third quarter.

The need for additional analysis, potential additional data collection, and a change in scope, was discussed. Mr. Helyer made a motion that the TADSWG, in coordination with Mr. Lauby, consider the value of additional analysis and data collection and bring a proposal to the June meeting covering any change in scope required. The motion was approved without dissent.

Demand Response Data Task Force (DRDTF): The status report for the DRDTF was provided in the advance agenda materials. Discussion and actions were not necessary during this meeting. Chair Burgess noted that a Chair is needed for the task force and ask the PC members to provide him volunteers for the position.

Data Coordination Working Group (DCWG): The status report for the DCWG was provided in the advance agenda materials and discussion and actions were not necessary during this meeting.

Spare Equipment Database Task Force (SEDTF): SEDTF Chair, Dale Burmester, provided a presentation (posted for Agenda Item 6.h.4) and gave an update on the establishment of the task force and relationship to the Coordinated Action Plan. The task force will recommend a uniform approach to collecting, storing, and distributing information on long-lead time BES spare equipment. The task force will consider building upon existing pooling or bilateral equipment sharing programs. The pilot program to request information on spares is expected to be voluntary. If participation is less than 70 percent after one year, may pursue a RoP Section 1600 mandatory request.

Smart Grid Task Force (SGTF): SGTF Chair, Paul McCurley, gave an update on the task force. Requests have been made for feedback from the technical committees on specific topics to be addressed in response to the Smart Grid Follow-On Activity 1 (Integration of smart grid devices and systems into the bulk power system requiring new planning and operating tools, models, and analysis techniques) and Activity 2 (Integration of smart grid devices/systems changing the character of the distribution system). Input is needed on the modeling functions to support initial elements on distribution and bulk power system components. Vice President Lauby will contact the MVTF concerning these areas.

Event Analysis Working Group (EAWG): EAWG Chair, Jacquie Smith, provided a status report and gave a presentation (posted for Agenda Item 6.j) on the program. She covered Phase 1 of the Field Trial that ended in January 2011, and provided metrics on event category frequency by region, along with descriptions of the events. She also discussed the lessons learned prior to the events and lessons learned as a result of the Field Trial. Phase II starts April 15, 2011 and will be preceded by a Webinar. Phase II will include the following new procedures:

- Event notification within 24 hours of occurrence
- Data hold for Category 2 or above events
- Event reporting analysis timeline – complete within 10 days of notice
- Regional Entities complete Event Analysis Report and compliance self evaluation for Cat 2 and above

Adjournment

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

Respectfully submitted,



A.J. Connor

Committee Secretary

From: [Elizabeth Merlucci](#)
 To: [Elizabeth Merlucci](#)
 Subject: FW: ANNOUNCEMENT: Standing Technical Committee's Meetings -- March 8-10, 2011
 Date: Monday, April 11, 2011 11:14:08 AM

From: Lori Rolfe
 Sent: Friday, January 14, 2011 1:51 PM
 To: Lori Rolfe
 Subject: ANNOUNCEMENT: Standing Technical Committee's Meetings -- March 8-10, 2011
 Importance: High



Meeting Announcement: Standing Technical Committee's Meetings March 8–10, 2011 | Phoenix, AZ

Meeting Location
 Phoenix Convention Center & Venues
 100 N 3rd Street
 Phoenix, AZ 85004

Lodging
 Hyatt Regency Phoenix Hotel
 122 N 2nd Street
 Phoenix, AZ 850046 ([Map](#))
 602-252-1234 Please call the hotel directly to book reservations

\$189+tax night group rate | Code: NERC
 Hotel cut-off date: February 14, 2011 at 6 AM Central Time (Rooms booked after this date will be subject to full price, if available)
 Room block available from: 3/7 – 3/9 (limited guest rooms available)
 Check in: 3 PM – Check out: 12 PM
 Dress Code: Business Casual

Group Name	Registration Link	Tuesday, March 8	Wednesday, March 9	Thursday, March 10
REMG		REMG: Noon – 1 pm Exec Committee: 10 am – noon		
Operating Committee	OC	OC: 1 – 5 pm	OC: 8 am – noon	
Planning Committee	PC	Exec Committee: 10 am – noon PC: 1 – 5 pm		
Critical Infrastructure Protection Committee	CIPC		Exec Committee: 10 am – noon CIPC: 1 – 5 pm Exec Committee: 5 – 7 pm	CIPC: 8 am – noon

NERC will provide a working lunch for OC and PC on 3/8 and a working lunch for CIPC meeting on 3/9 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 Lori Rolfe.

Agenda As Amended Planning Committee Meeting

March 8, 2011 | 1–5 p.m. (MST)
March 9, 2011 | 8 a.m. – noon (MST)

Phoenix Convention Center & Venues
100 N. 3rd Street
Phoenix, AZ 85004
602-262-6225

1. Administrative*

- a. Welcome and Introductions – Tom Burgess
- b. Results of Special Member Election – Tom Burgess
- c. Process for Nominating PC Vice Chairman – Tom Burgess
- d. Arrangements – AJ Connor
- e. Parliamentary Procedures – AJ Connor
- f. Announcement of Quorum – AJ Connor
- g. NERC Antitrust Compliance Guidelines – A.J. Connor
- h. Future Meetings – AJ Connor

2. Consent Agenda*

- a. **Approve** – December 7–8, 2010 Draft PC Meeting Minutes as final Minutes – AJ Connor

3. Chairman's Remarks

- a. Report on February 16–17, 2011 Member Representatives Committee and Board of Trustees Meeting – Tom Burgess

4. Information Only*

- a. Using SychroPhasors to Improve Dynamic Models of Electrical Loads – Dmitry Kosterev, Bonneville Power Administration, on behalf of the North American SychroPhasor Initiative
- b. Sub-Synchronous Resonance and Controls Interaction Experience and Considerations – Bob Cummings / Paul Hassink

- c. NLE 2011: Overview of National Level Exercise 2011 and on the New Madrid Earthquake Scenario to be conducted in May 2011 – Matthew Light, Infrastructure Systems Analyst, Department of Energy
- d. RSR-SAT: Introduction of scope for development of the Reliability, Survivability, Resiliency Self Assessment Tool for vulnerability (security, reliability, resilience) assessments – Matthew Light, Infrastructure Systems Analyst, Department of Energy

5. Committee Matters*

- a. **Feedback** – NERC President’s Top Priority Issues – Mark Lauby
 - i. What are the next steps? – Mark Lauby
 - ii. Review draft proposals for addressing issues – Tom Burgess/Mark Lauby
- b. **Feedback** – Discussion on ERO Strategic Objectives - Mark Lauby
 - i. What are the next steps? – Mark Lauby
 - ii. Review draft proposals for addressing issues – Tom Burgess/Mark Lauby
- c. **Approve** – Report Review and Approval Process drafted by the Planning Committee Executive Committee -AJ Connor
- d. **Feedback** – Draft Planning Committee Strategic Plan – Next Steps – Jeff Mitchell
 - i. **Action Item**- Direct Ad Hoc Group to develop Charter changes
 - ii. **Action Item** – Direct Ad Hoc Group to develop deliverables/timelines for strategic plan
- e. **Discuss** – PC Executive Committee Proposal on how the Planning Committee, in advance of issuance of NERC Alerts, can contribute to review/advise on the content of such alerts in the future – Tom Burgess/Gerry Adamski
- f. **Discuss** – Initiative to develop proposal on Adequate Level of Reliability – Tom Burgess
- g. **Discuss** – Comprehensive plan to address Frequency Response with the OC – Bob Cummings
- h. **Discuss** – Comprehensive comments responding to FERC report on LBNL – Bob Cummings
- i. **Discuss** - comments related to defining the BES sent to the Operating Committee and PC for review – Mark Lauby
- j. **Discuss** - Coordinated Action Plan - Critical Infrastructure Strategic Initiatives developed by the Joint Action Group - Stuart Brindley

6. Subgroup Reports*

	PC Action	Presentation
a. Reliability Assessment Subcommittee	1. Provide feedback on gas Interdependency Special Assessment Scope 2. Identify Webinar 2011 dates for Reliability Assessments	Vince Ordax
1. Load Forecasting Working Group	None – status report	
b. Reliability Metrics Working Group	Approve the refinement of the Severity Risk Index (SRI) (Attachment 1) Approve Scope Change (Attachment 2) Feedback – Integrated Reliability Index (IRI) Concepts (Attachment 3)	Jeff Mitchell
c. Integration of Variable Generation Task Force	Approve the report <i>Methods to Model and Calculate Capacity Contributions of Variable Generation for Resource Adequacy Planning</i> prepared by the IVGTF Team 1-2.	Mark Lauby
d. Geomagnetic Disturbance Task Force	None – status report	Don Watkins
e. Resource Issues Subcommittee	None – status report	
1. Loss-of-Load Expectation Working Group	None – status report	

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|----|--|--|---------------|
| 2. | Generating Availability Data System Task Force | Approve the report <i>Mandatory Reporting of Conventional Generation Performance Data</i> to be posted for industry comment as called in NERC's Rules of Procedure, Section 1600 <i>Requests for Data or Information</i> . | Ben Crisp |
| f. | Transmission Issues Subcommittee | Approve TIS Authoring a white paper on planning design considerations to manage SSR impacts on bulk power system reliability. | Mark Byrd |
| 1. | Model Validation Task Force | None – status report
Discuss overall plan and deliverables. | Bob Cummings |
| g. | System Protection and Control Subcommittee | None – status report | Jon Sykes |
| 1. | Discuss misoperations strategy efforts | | |
| 2. | Discuss System Protection Initiative status | | |
| 3. | Discuss overall work plan and deliverables | | |
| h. | Data Coordination Subcommittee | None – status report | Paul Kuras |
| 1. | Transmission Availability Data Systems Working Group | None – status report | Mike Petalkis |
| | Discuss recommendations for enhancing insight about transmission performance | | |

2.	Demand Response Data Task Force	None – status report (need chair)	
3.	Data Coordination Working Group	None – status report	
4.	Spare Equipment Database Task Force	None – status report	Dale Burmester
i.	Smart Grid Task Force	None – status report	Paul McCurley
j.	Events Analysis Working Group	None – status report Discuss – Event Analysis Working Group – Next Steps	Jacquie Smith

*Background material is included

Attendees
Planning Committee Meeting
March 8-9, 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 - Marc Tunstall (P)
Cooperative Utility - Jay Farrington
Cooperative Utility - Paul McCurley
Federal/Prov. Utility - Jean-Marie Gagnon (P)
Federal/Prov. Utility - Tony Norris (P)
Federal/Prov. Utility - Ron Mazur
Federal/Prov. Utility - Ibrahim El Nahas (P)
Trans. Dependent Utility - Puesh Kumar (P)
Trans. Dependent Utility - Tom Reedy
Merchant elec. generator - Scott Helyer
ISO/RTO - Mark Westendorf
ISO/RTO - Dan Rochester
RRO/ERCOT - Dan Woodfin
RRO/FRCC - Ben Crisp
RRO-MRO - Dale Burmester
RRO-NPCC - Phil Fedora
RRO-RFC - Paul Kure
RRO-SERC - Russell Schussler
RRO-SPP - Norman Williams
RRO-WECC - Branden Sudduth
State government - Christine Ericson
State government - Jeff Kaman

Non-Voting Members

U.S. Federal - Eddy Lim

PC Subgroup Chairs

Mark Kuras Chair, RAS & Chair DCS
Mark Byrd Chair, TIS
K. R. Chakravarthi Chair, DCWG
Jonathan Sykes Chair, SPCS
Mike Pakeltis Chair, TADSWG
Vince Ordax RAS Vice Chair

Guests

Dmitry Kosterev BPA
Matthew Light DOE
Ray Kershaw ITC Holdings
David Grubbs City of Garland
John Seidel MRO
Joe Spencer SERC
Kevin Berent SERC
Bob Canada Southern Company
John Odom FRCC
Bob Entriken EPRI
Alison Silverstein North American Synchro
Phasor Initiative
Baj Agrawal Arizonia Public Service Company
Michael Forte Con Edison
Curtis Crews Texas Reliability Entity
Jason Marshall Midwest ISO
Jeff Muller PSE&G
Ed Davis Entergy Services
Dwayne Parker Consumers Energy

NERC Staff

Mark Lauby
Elizabeth Merlucci
Bob Cummings
Jessica Bian
Ron Niebo
Mike Curley
Elliott Nethercutt
Stuart Brindley (NERC Consultant)