

Meeting Minutes
Administrative Subcommittee of the
Transmission and Distribution Committee
Minneapolis, Minnesota
Thursday, July 29, 2010, 08:00 to 10:00, MCC - 208 B

1. Introductions

In attendance:

- Glenn Davidson (TCPC)
- Karl Mortensen (Standards Vice Chair)
- Robyn Page (HVDC and FACTS)
- Ernst Camm (Integration of Renewable Energy into the T&D Grids)
- Dan Sabin (Power Quality)
- Randy Horton (representing General Systems)
- Mark Mc Vey (Capacitors)
- John McDaniel (TCPC + Distribution)
- William Chisholm (Secretary + Lightning & Insulators)
- Satish Ranade (Vice Chair)
- Tom Grebe (Chair)
- Matt Ceglia (representing IEEE Standards)

2. Previous Meeting Minutes

Review and Approval of July 30, 2009 Meeting Minutes

One correction, Bruce Mohr should be Bruce Mork.

Eballots

1 Mar 2010 - **Concur** with TPC Appointment of Nelson Bingel as IEEE Rep. to ANSI C5 Loading

15 Jun 2010 - **Approve** Draft 4 of Organization and Procedures Manual, addressing comments from other IEEE stakeholders

29 July 2010 – **Approve** formation of Geomagnetic Induced Current Working Group in General Systems Subcommittee, chaired by John Kappenman

3. Chairman's Report – Tom Grebe

Current Meeting

The chair represented T&D at Technical Council. Presentations included a lawyer defining the meaning of "representation", with the example of a consultant hired by a utility to attend a standards meeting – the consultant's affiliation should be stated as representing the utility. The SA Website gives additional guidance on managing and documenting balance of interests, group equity and disclosure.

Chair of Marine Systems Coordinating Committee – request to become full committee – leading to problems negotiating scope with interested groups.

Joint Technical Committee and Smart Grid meeting – a survey will be conducted of people attending one or the other in to establish a rationale for sharing or separating these two meetings. The Joint Technical Committee meeting is fixed, with the possibility (increasingly remote) of moving the Smart Grid meeting.

Excellent attendance 2400-2500 at the Minnesota meeting.

Committee Membership - Updated Roster

Organization and Procedures Manual Update - Version 4

With two minor changes, the Organization and Procedures Manual adopted by the Committee on 15 June 2010 was approved at technical council and successfully uploaded into the IEEE SA document management system. A link to the O&P document should be placed on the IEEE T&D website.

Incorporating Operating Procedures into Working Groups developing IEEE Standards

Individual Subcommittees and Working Groups can modify the identified clauses in the policy and procedures manual, for example dealing with rotation of chairs, vice chairs etc.

There is a preference to use the word "Assignment" for Working Group and Task Force activity with "Scope" reserved for standard development.

Review of Objectives achieved and Advice Going Forward

John McDaniel reported on paper reviews, HVDC and General Systems being less responsive. Many assigned papers have little to do with T&D and have been steered away from other committees.

140-150 papers submitted, 120 accepted, 25-30 panel papers were accepted for T&D. 12 bibliography papers went to combo sessions – 6-8 papers into combo sessions in Distribution, one into Lightning. In 2010, T&D had no paper sessions or paper forums.

Plans for Detroit are underway. Sunday night reception is fixed with hotel.

4. Awards

T&D Committee – Congratulations to IEEE Fellow Recipients from the T&D Committee:
Gary Chang, Gallway and Fahrad Rachidi new IEEE Fellows

T&D Committee members at the Tuesday night Awards Banquet head-table included:
Hingorani Award, Phil Barker, Bob Zuluski

Distinguished Service – To Be Announced at a Future Meeting

Gene Wolf reported by email that everybody needs to take the time to navigate the web-based process for submitting worthy candidates for awards.

Technical Committee Prize Paper Award
Technical Committee Distinguished Service Award
Technical Committee Working Group Recognition Award
IEEE Fellow Nominations – Reminder, Endorsers Cannot Evaluate

5. Future Meetings

AM 2011: Detroit AM 2012: San Diego: AM 2013: Vancouver for 2012, 2013 and 2014 annual meetings. 2011 Joint Technical Committee meeting is Atlanta, arrangements for 2012 underway, 2012 T&D Orlando, ESMOL 2011 Providence, Rhode Island.

6. New Business

- Change of Wind Plant Collector System Design WG title and scope (Camm)

The motion to accept the name change and new scope was made by John McDaniel, seconded by Satish Ranade. Motion was **approved**.

- Proposed new WG on Wind and Solar Power Plants: System Impacts and Interconnection Requirements (Camm) dealing with aspects in IEEE Standard 1547. General consensus is that there is not enough guidance and no other group is assembling components into specific guidance. Large generator interconnection, NERC FERC 661 A rules 20 MW and larger. There will be a balanced focus on large and small machines. With small machines the coordination with the interconnection of distribution renewable integration is desirable. Bob Saint should be approached to nominate a joint member between new WG and distribution renewable integration.

Subject to coordination by naming a joint member with Distribution Renewable Integration, WAC moves, Tom Grebe seconds motion to form a new Working Group on Wind and Solar Power Plants: System Impacts and Interconnection Requirements; motion **approved**.

Safety in Wind Power Plants is an issue of considerable interest, including coordination of NEC and NESC requirements where there are presently overlaps in jurisdiction. This touches on ESMO (with regard to general procedures for safe work, tagging, lockout) who can provide some advice on live work aspects. This will proceed on the basis of a Task Force.

7. Officer Rotation

The normal rotation of ADCOM officers will occur at the end of 2010. TCPC to Secretary, Secretary to Vice Chair, Vice Chair to Chair, Chair to Awards. Updates to working group chair terms are also made in the ADCOM roster.

Motion to promote John McDaniel to Secretary of T&D Committee effective January 2011 by WAC, seconded by Tom Grebe, **approved**.

Subsequent to the meeting, to be confirmed by electronic ballot, WAC moves and John McDaniel seconds that Dan Sabin be elected as Transmission & Distribution Committee Technical Committee Paper Coordinator (TCPC) effective January 1, 2011. Following previous practice, the outgoing TCPC (John McDaniel) will provide carryover coordination for the 2011 ESMOL and Annual Meeting programs.

8. Subcommittee Reports

8.1 Capacitors

P1726 – new standard for series capacitor application, coordinated with SPD and switchgear, so that systems (as opposed to individual components) can be designed more effectively.

P824 reaffirmation to allow focus on P1726. Rotation of officers within Capacitors subcommittee: Tom Grebe is Chair, Richard Sevigny Vice Chair, Mike Hulse Secretary

8.2 DC and Flexible AC Transmission – room size needs to be larger. Andrew Issacs elected as secretary; Ben Mehreban vice chair. 5 WG meetings – planning for joint panel sessions meeting for Detroit. Planning also for panel sessions on HVDC education at PSACE conference, ExpertNow and Distinguished Panel initiatives. Bibliography nearly caught up, 3 to catch up and 2 to maintain annual reports. HVDC project listing. Murray Bennett at Teshmont is the right contact to establish ratio of +/- pole lightning tripouts.

Mark McVey is the SPD and US National Committee representative to an IEC Group for a new guide on HVDC Protection, meeting in Berlin in November. Mark will circulate drafts etc to Robyn Page (Chair) for possibility of joint development.

8.3 Distribution - room size of 50 for stray voltage slightly small. Other WG/TFs all met at AM2010. Planning for panel sessions underway, some may be rolled up into Smart Grid supersession. Industry Trends in System Reliability was co-scheduled with Distribution

Reliability WGs, an unfortunate miss-coordination. PAR for "Stray Voltage" to be administratively withdrawn and resubmitted to gain more time. Letter of Assurance to Stray Voltage working group satisfied by presenting the three slides (discussing standards behavior) at beginning of meeting. Coordination of Standard 1815 was achieved with Substations Committee and had short development time – 6 months, 800 page document. DNP3 protocol reformatted and edited into standards language, including three recirculation ballots. A process to keep 1815 in synch with rapid changes (extensions) in DNP3 is recognized to be important.

8.4 Engineering in the Safety, Maintenance and Operation of Lines

Subsequent to the meeting, Tom Buoncontri reported that a number of ESMOL working groups and task force meetings were held, including extension of the scope of the present 957 Standard on insulator washing to include prediction.

8.5 General Systems

Randy Horton reported that 5 TF, 9 WG met. There was a successful Tutorial on Transient Analysis of Power Systems with 45 in attendance. The General Systems subcommittee plans to continue to develop interesting panel sessions for the technical program, and as an action item will forward panel session chair names to present TCPC (John McDaniel) in order to set up the Mira paper submission site correctly to receive the supporting contributions.

8.6 Integration of Renewable Energy into the Transmission and Distribution Grids

Report taken above under New Business.

8.7 Lightning and Insulator

Both WGs met at the IEEE Annual Meeting in Minneapolis.

The Lightning WG (Combo Session) had excellent paper on UHV shielding and the suitability of the present electrogeometric models used in IEEE Standards 1410 and 1243 for tall double-circuit UHV lines or EHVDC lines. The P1410 Guide for Improved Lightning Performance of Overhead Distribution Lines has passed its recirculation ballot and has been submitted for approval at the September 2010 REVCOM meeting.

The Insulators WG had several task force meetings, including development of P1820 for application of insulators in icing conditions. A successful panel session described the effects of high-temperature conductor operation on insulators. At the Subcommittee meeting, a motion to recommend dissolution of the L&I subcommittee, with both Insulators and Lightning WGs moving to TPC, was discussed and rejected. Instead, the Subcommittee requests that the Corona and Field Effects WG be transferred from TPC to L&I for two reasons: Immediate need for coordination of work related to electric fields on polymer insulator surfaces and testing using conductor surface gradients, and also to take better advantage of close and productive ties between EMC and PES experts and joint members (such as newly elected Fellow Fahrad Rachidi) in the area of lightning protection.

There was no strong effect on attendance in the Insulators WG related to the shift from Monday to Wednesday to resolve historic overlap conflicts with ESMO meetings related to live work methods.

8.8 Power Quality

6 WG met. Harmonics – IEEE 519 at risk of administrative withdrawal, revision in place and aware of time pressure. TF Harmonics panel session planned. P1250 ballot recently – dealing with 120 comments and planning recirculation. P1453 – adopts IEC flicker standard – administratively withdrawn – working to get it reinstated for reaffirmation. P1564 voltage sag standard reformatted into new template and should be ready for ballot early next year. Revisiting P159.1 with a view to coordination / adoption of IEC 61000-4-30 that was stalled by copyright issues five years ago. Action item is to decide on which of four alternatives is most appropriate. PQDiff format – meeting is not attended by software engineers who are most knowledgeable about internal workings. WG on ICHIPS – next meeting in Italy – meeting afterwards in Hong Kong.

8.9 Towers, Poles and Conductors

6 WG met through the week, 5 on Sunday, excellent attendance (on the order of 60). Standards and technical presentations were well attended throughout the week. Subjects included vandalism (gunshot) on conductors, Sagging Line Mitigator, Tower Testing. Discussions are in progress for a Joint IEEE/NACE (Corrosion Society) development of standards for tower anti-corrosion coatings. Corona and Field Effects Std 438 PAR submitted to reactivate and update references. Joint TPC/ESMOL presentations were made on conductor temperature measurements, and high-temperature low sag conductors. The TPC chair received and was initially receptive to the proposal to transfer the Corona and Field Effects working group to the Lightning and Insulator Subcommittee and will discuss this with the WG chair.

9. Standards Activities

Coordination, PAR on Power Line Noise Mitigation (Ed Hare, W1RFI@arrl.org, SDCOM Secretary) is needed with overlapping scope to the existing P438 in the Corona and Field Effects Working Group.

Mat Ceglia informed that standards facing administrative withdrawal include:

824, 977, 1025, 1036 (Complete) 1048, 1124, 1204, 1250 (in process), 1283, 1308, 1441

10. Technical Paper Reviews

New Transactions Paper Review Coordinator needed for TP&C – in fact Maggie Emery will remain in this position with additional support from within TP&C.

Siddharth Suryanarayanan has accepted this role for the Integration of Renewables WG

11. Subcommittee Website Status

Tom Grebe remains webmaster.

12. Future Meeting Schedule

- January 10-14, 2011 (Joint Technical Meeting) in Atlanta, Georgia, USA.
- July 24-29, 2011 (General Meeting) in Detroit, Michigan, USA.
- May 7-10, 2012 (IEEE PES T&D Conference and Exposition) in Orlando, Florida, USA.
- July 22-27, 2012 (General Meeting) in San Diego, California, USA.