

CHAIR'S REPORT – FALL '07 – MINNEAPOLIS, MN

1.0 Chair's Report – D. J. Fallon

1.1 PES General Meeting Notes

The PES General Meeting was held in Tampa FL this summer from June 25-28. The Transformers Committee was represented at PES Administrative meetings by Tom Prevost and myself. Ken Hanus and Jin Sim, as our most recent Committee Past Chairs, also attended and participated in the PES General Meeting. Committee representative Robyn Taylor attended the Technical Committee Advisory Board (TCAB), a group assembled to provide direct input on Technical Committee views and concerns to PES President John McDonald. Tom Prevost chaired presentations at two Paper Sessions sponsored by the Committee.

The schedule for upcoming PES General Meetings is as follows:

- 2008: July 20-24 in Pittsburgh, Pennsylvania
- 2009: July 26-30 in Calgary, Alberta, Canada

PES Conference & Exposition (CE) schedules:

- 2008: Transmission & Distribution (TDCE), April 21-24 in Chicago, Illinois
- 2008: Int. Conference on Power Technology (POWERCON), Oct. 12-15 in New Delhi, India (Co-sponsored by PES)
- 2009: Power Systems (PSCE), March 15-18 in Seattle, Washington

PES Joint Technical Committee Meeting (JTCM) schedules:

- January 7-10, 2008 in San Antonio, Texas (<http://www.pesttechnical.org/>)

The JTCM schedule has been set up by PES as a winter venue for 3 days of meetings, allowing Technical Committees to schedule individual meetings as needed. Coordination of schedule with PES as early as possible will help assure that room can be found for requested meetings, and our Committee's activity leaders (SC and WG Chairs) are encouraged to consider making use of these venues if they might allow projects to proceed more effectively between our meetings. To set up participation in these sessions for our Committee, contact should be made with the PES Technical Council (through our Committee officers) and directly with PES meetings coordinator John Paserba (j.paserba@ieee.org).

Additional information on any of the above meetings can be found on the PES website at (<http://www.ieee.org/portal/site/pes/>)

Technical Committees are encouraged to make more effective use of the PES monthly newsletter as a means to provide greater exposure for their activities. Submissions will be considered for publication in virtually any area Committees choose (e.g. pictures, meeting summaries, significant projects completed, awards, etc.).

The Plenary Session topic at the General Meeting was "Keeping the U.S. Transmission System Reliable - National, Regional and State Perspectives." and included discussion the following essential priorities necessary for reliability enhancement:

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- Adherence to mandatory reliability standards
- National interest Transmission Corridors
- Transmission Database identifying and recording availability for all circuits
- Uniform synchronized monitoring of system parameters across interconnection borders
- Maintaining engineering talent to keep the Grid operating

1.2 PES Technical Council Activities

The Technical Council met at the PES GM on June 26. Items of note from the meeting follow:

1.2.1 Transformers Committee Technical Council Agenda Items

Prior to the PES Meeting, Technical Committees were requested to provide items of concern for possible discussion at the Technical Council meeting. Excerpting from the Transformers Committee's 6/12/07 response, the following items were proposed for discussion:

From the Transformers Committee's perspective there are two items of concern that we'd like to make the PES Technical Council aware of for the upcoming Meeting in Tampa:

- (a) **Technical Committee Coordination and Liaison Issues** - As a first item, we agree there is need for discussion of the concerns related to Coordination and Liaison activities between Technical Committees, as expressed by Mr. Om Malik in his 6/7/07 message. Each situation is different; we have cases where coordination intended by two Technical Committees never quite materialized in a manner that was acceptable to both Technical Committees, resulting in some significant delays to project work. The Committees are working together to keep the projects moving, but the experience does perhaps point out the need for possible process guidelines and Technical Council oversight of liaison and coordination activities needed to allow specific standards projects to stay on track and on schedule.
- (b) **IEEE Editorial Support Needs** - The second item has to do with making sure we do all we can to facilitate and enable our standards development volunteers by keeping administrative and editorial tasks to a minimum and allowing them to concentrate on the technical content of the standards documents they are responsible for. The Transformers Committee acknowledges with great appreciation the support provided by IEEE Staff both to respond to particular items of concern within our Committee and to develop and improve processes that do facilitate our work; at the same time we feel that consideration should be given to additional editorial support needs from IEEE. We are in ongoing discussion with our IEEE liaisons on this issue – and we do owe them more specifics – but we feel it appropriate in the context of the Technical Council Agenda request to bring this item up. A brief statement of this concern, as expressed in our Committee Minutes, follows:

Item from Transformers Committee Spring 2007 Minutes:

IEEE Staff was advised at the Administrative SC Meeting that the next major area of concern for which we need to actively work with IEEE is the tremendous burden that the editorial process sometimes turns out to be for our WG Chairs in preparing new and revised documents. Difficulties include:

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- Scanning process used to convert standards documents to Word format for use by WG's in revision leaves much to be desired – many errors must be corrected.
- IEEE present practice of archiving documents for return to WG's (for next revision) in Word format is very good – but until all documents have gone through this cycle we still will be faced with scanning difficulties.
- PAR submittal and document editing (per the Style Manual) processes can be difficult, as our WG Chairs do not regularly perform these tasks. Additional assistance from IEEE in these processes would be helpful.

The next step is for the Committee to document these concerns in written format to IEEE to initiate further discussion on possible solutions.

The above items were discussed at the Technical Council Meeting, as outlined in Clauses 1.2.6 and 1.2.7.

1.2.2 Technical Committee Representation at Technical Council Meetings

Starting with next year's meeting in Pittsburgh, Technical Council will be asking for another representative, in addition to the Committee Chair, to represent and participate for each Technical Committee at Technical Council Meetings. This additional representative, essentially acting as a "Committee Technical Council Delegate", will have an intended term of greater than 2 years. This is intended to provide greater continuity and effectiveness of dialogue between the Committees and Technical Council.

1.2.3 PES Promotion of "Super Sessions" at General Meetings

PES is interested in promoting "Super Sessions", sessions that expand across Committee boundaries and involve several Committees. Excerpting from a July message from PES Technical Council Vice Chair Rick Taylor:

The planned Super Sessions for the 2008 PES General Meeting are Emerging Technologies, Wind Power, 2020 Vision, Walking Closer to the Edge, and Nuclear Power. The intention for each session is to involve as many technical committees as possible to represent divergent issues associated with these topics. Each TCPC should be examining the activities of their committee to attempt to identify committee reports or possible panel participants as they relate to each topic. In addition, as the paper review process takes place, high value [top 10%?] papers should be identified for inclusion in these sessions where appropriate or for featuring in your committee "high value" sessions.

The first steps in the organizing of these Super Sessions needs to begin now by identifying volunteer coordinators. It would be entirely appropriate for multiple coordinators to work on each session and for individual TCPCs to participate in organizing multiple topics. Coordinators do not have to be TCPCs. Chairs, Vice Chairs or interested individuals are welcomed to provide input and coordination.

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If you are willing to volunteer, please advise one of the Committee Officers and we will put you in touch with Rick Taylor.

1.2.4 Technical Committee Website “Templates”

IEEE is working on some standardized guidelines for Technical Committee websites. Several existing websites, including our Committee's website, have been reviewed as part of the effort to determine these guidelines. I commented during this discussion on the advisability of focusing guidelines on suggestions for functional needs, rather than requiring specific sections and formats; this would allow existing working websites (such as ours) to maintain their structure, while providing ideas for potential further improvements.

1.2.5 Re-Structuring of the PES General Meeting

A recommendation has been made to Technical Council to re-structure the PES General Meeting to blend better with Technical Committee meetings. Description of the proposed re-structuring follows:

Re-package the General Meeting to begin on Monday morning, as now, and end Wednesday at noon. In conjunction with the General Meeting would be the [to be] semi-annual Joint Technical Committee meeting beginning on Wednesday morning and ending Friday at noon. Registration would be separate, but could include a significantly discounted joint registration fee.

The general meeting would be essentially the same on Monday AM. Administrative meetings would be scheduled into sessions before and after technical sessions, perhaps from 7:30AM-9AM and from 5PM-7PM and into Wednesday AM. General meeting technical sessions would be limited to a certain number of parallel sessions with papers selected based on topic and value. No other official functions would conflict with these sessions. Focus would be on presenting output of the Technical Committees and on the concepts of Super Sessions now being implemented.

For the Technical Committee Meeting starting on Wednesday AM, the Technical committees could choose to have however many paper sessions, poster sessions, etc. as they determine are required/desired. Technical committee participation in these meetings would, of course, be optional, but could include full meetings, targeted meetings, joint meetings with other TCs, or technical presentation sessions only.

We feel this proposal would greatly strengthen the GM program and allow increased focus on relevant and valuable industry issues. If this concept is successful, it may be possible to add a day or day and one-half to the January Joint TC meeting to feature some technical sessions and more joint committee activities.

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While the present scheduling of Transformers Committee Meetings does not blend well with scheduling one of our meetings during the mid-summer PES General Meeting, this re-structuring, together with the January Joint Technical Committee Meeting (JTCM), would provide opportunities for specific TF's or WG's to meet to continue project progress between our meetings. While I indicated it would be unlikely for the Transformers Committee, as a whole, to meet during this re-structured General Meeting format, I did not object to the plan during the discussion. There was no definitive action to change to this new structure; discussion will continue.

1.2.6 Review of Conference Paper Issues

There is ongoing concern with the need to assure high quality presentation papers during Conference sessions. Suggestions included raising standards for Conference papers to essentially the same level as Transactions Papers; allowing for more Poster Sessions to allow one-on-one dialogue with authors; and allowing authors to decide whether they wanted to present their papers (with the more stringent guidelines required for presentation papers). Jim Harlow suggested emphasizing opportunities to present papers at Technical Committee Meetings, thus providing for a larger, more focused audience for relevant papers. There was no resolution; discussion will continue.

1.2.7 Technical Committee Liaison and Coordination Issues

Om Malik of the Electric Machinery Committee initially raised this as an Agenda item for Technical Council discussion, and we supported need for review and guidance on this issue (see Clause 1.2.1). Several additional Committees, including the Switchgear Committee (jointly sponsoring with us the PC57.142 Switching Transients Guide presently in development) also voiced the need for more guidance from PES. Technical Council and PES officers were receptive to the need, but also stressed the use of the existing Liaison process, and contacting the Standards Coordinating Committee (SCC) as needed to see if they can provide assistance in time of need. We need to continue to pursue this issue with Technical Council, but in the meantime should also consider the SCC as a possible source for help.

1.2.8 IEEE Editorial Support Issues

This issue was raised for discussion by our Committee (see Clause 1.2.1), and supported in writing prior to the meeting as a significant concern by the Switchgear, Station Battery, and Substations Committees. During the discussion several other Committees also indicated concerns and serious difficulties related to the time and effort required by technical committee volunteers to respond to editorial issues, and there appeared to be wide agreement among technical committee representatives that IEEE should focus on providing more support in this area, including consideration of providing more editorial staff to remove some of the editorial burden from our volunteer standards developers. While no promises were made, there was indication that both PES and IEEE SA were

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receptive to this discussion and were reviewing to develop further understanding and potentially make recommendations for improvement.

1.3 Transformers Committee Activities

Progress since last meeting in several areas of concern for the Committee, together with notes of Committee interest, follow:

1.3.1 Coordination and Liaison Activities – Progress on PC57.142

We continue to report on this project in this report simply because it is a project (the PC57.142 Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformer, Switching Device, and System Interaction) that does require a significant amount of coordination with another Committee (Switchgear) and that requirement for coordination has pointed out that such efforts can face unique challenges. As a result of joint discussion and cooperative effort involving Transformers Committee and Switchgear Committee members in September and October of 2006, the decision was made to move forward with this document under joint sponsorship of both Committees. Work would continue to be guided by the Transformers Committee, as primary sponsor; and in recognition of the crucial and necessary role our colleagues from the Switchgear Committee play in assuring this document meets the needs of our industry, the PAR for this project lists the Switchgear Committee as our joint sponsor. A joint Task Force, with representatives of both Committees, was to prepare the document for ballot. A new PAR for this project was submitted in January of this year, and subsequently approved.

I had the opportunity to meet and discuss with Switchgear Committee leadership (Chair Ted Burse and Vice Chair Bill Long) at the PES General Meeting in June. Ted and Bill had both supported the joint sponsorship concept, and we continued to agree that this was the best way to proceed. I did advise hope that we could move to ballot soon. As of this point in time we have not been able to proceed to ballot. We will review with the WG and TF leadership to determine how best to proceed to get this industry needed guide into publication.

1.3.2 IEEE/IEC Dual Logo Program / References vs. Bibliography

We reported in the Spring of this year that the IEEE/IEC dual logo process seemed to have hit a snag with concerns from several IEC representatives on the submittal of IEEE C57.123 (Guide for Transformer Loss Measurement) for consideration for Dual Logo status. The subject document has references to several other IEEE documents, and there was reluctance to approve as such approval might imply acceptance of the referenced documents also – and these referenced documents had not been subjected to review by IEC. We recognized the concern as possibly valid, and a concern that may apply to virtually any IEEE document submitted, including C57.135 (Phase Shifting Transformer Guide), previously accepted by IEC for dual logo status. We have not proceeded further with changes to the C57.123 document. One suggestion by IEEE is to remove all

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references to documents that are not essential to implementation of the document from the References Clause and move them to the Bibliography. Unfortunately, if even one IEEE reference document remains, the IEC concern would still apply. We will continue discussion with IEEE to determine how to proceed.

Included here is a report on this concern presented at the recent IEC TC14 Meeting:

At the request of Phil Hopkinson, IEEE was invited by the Chair of IEC TC14 to give a presentation on the IEC/IEEE Dual Logo Agreement. Jin Sim gave the presentation on behalf of the IEEE and Jodi Haasz from the IEEE-SA attended to provide support.

The results of the meeting follow:

- Support for the IEC/IEEE Dual Logo program was split (about 50/50). As for suggestions as to which documents to submit, IEC TC14 would like to make suggestions for documents and not have IEEE suggest the documents.

In that regard, there was interest in reviewing IEEE PC57.142 for possible incorporation into the revision of IEC 60076-12. The draft was sent to Jodi Haasz for review prior to distribution to IEC TC14; however, the document had no copyright material associated with it and cannot be distributed until the appropriate copyright material is added to the draft.

Suggestion for moving forward – IEEE-SA staff recommends that IEEE inform IEC TC14 of their standards in progress to see if there is interest from TC14 in those documents. We also recommend establishing a Category D Liaison with the appropriate IEC TC14 working groups to enable this communication.

- References in IEEE standards were a large concern, especially for the French and German delegations.

Suggestion for moving forward – Standards listed in the references section of a document should only be those that are called out in the body of the standard itself or those that are needed to understand the standard. All other documents should be moved to the Bibliography section of the document.

Another suggestion would be to reference the international standards. If both the IEEE and international standards referenced conflict, the following information can be included in the References clause:

The following referenced documents are indispensable for the application of this standard (i.e., they must be understood and used; therefore, each referenced document is cited in text and its relationship to this standard is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.

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Where references to both standards are made, users are responsible for specifying the standard they desire, and manufacturers are responsible for specifying the standard they used for their design and testing.

See the IEEE Style Manual for further guidance, specifically Clause 10.4. Clause 22 might also be useful.

- It was mentioned that if IEEE had an idea for a standard, IEC TC14 would be interested in reviewing it and possibly developing it. Therefore, IEC TC14 might favor the joint development of standards instead of the dual logo program.

Suggestion for moving forward – An agreement with IEC is in progress to allow the joint development of standards. Once approved by both organizations, this will provide the template and rules for joint development between the IEEE and the IEC. A Category D Liaison will also better enable this activity.

We will need to have further discussion with IEEE, as this suggestion and guidance comes directly from Clause 10.4.1 of the IEEE Style Manual (repeated below), and is resulting in requirements to move formerly approved references to the bibliography when documents are revised. The concern is that present enforcement of this requirement by IEEE presents additional editorial burden.

Clause 10.4.1 of the IEEE Style Manual:

Normative references are those documents that contain material that must be understood and used to implement the standard. Thus, referenced documents are indispensable when applying the standard. Each normative reference shall be cited, and the role and relationship of each referenced document shall be explained in the body of the standard. If a reference is not specifically cited in the normative text of the document, then it shall not be listed in the normative references clause. In such cases, it shall be listed in the first or final informative annex, entitled Bibliography

1.3.3 IEEE SA Financial Reporting Requirements

Since last year, IEEE SA has required all “Standards Developing Groups” to complete annual financial reports submitted in an IEEE SA Template (Form L50-S). Our Meetings Planning SC Chair has maintained financial records for the Committee, and has made the effort to modify the financial record spreadsheet he developed to facilitate reporting the Committee budget per the L50-S form. The 2006 financial report, prepared in this manner, has been filed. Based on the ongoing needs for this detail of financial reporting, the Chair feels consideration of a Treasurer's position for the Committee is appropriate. This topic will be discussed at the Administrative SC Meeting.

1.3.4 C57 Standards CD

The Committee is continuing to review with IEEE our request to make available for purchase an updated edition of the CD-ROM collection of the latest IEEE sponsored Transformer Standards.

1.3.5 Committee Membership

All are welcome to participate in the work of the Transformers Committee. Membership in the Committee provides recognition of your peers and indication to your co-workers and management of your active role in Committee work. If you are presently not a Main Committee Member, and you have been actively participating in our work for at least one full year – and can secure the acknowledgement of at least 3 Activity Chairs (WG's, but must include at least one SC Chair) affirming that participation, the Committee will look forward to welcoming you as a member. Membership requirements and application forms can be found in the Organization and Procedures Manual posted on the Committee website.

1.3.6 Meeting Agenda Change – New Business

We will continue – on a trial basis - the Agenda changes made in Dallas for both the Administrative SC and Main Committee Meeting. New Business has been moved forward in the Agenda. With New Business in the typical end of meeting timeslot, and with the time spent on other Agenda items, New Business does not always receive the attention it needs. The time spent on ongoing projects is indeed important, as the Committee deals with many standards documents and substantive issues related to the development and maintenance of those documents – and at times it seems our plates are already so full (recognizing we're all volunteers) that the ability to take on new issues seems limited. Despite this challenge, we also need to provide sufficient time to raise new technical issues and to address planning and strategy on how the Committee should work. The intent, during this trial, will not necessarily be to debate and discuss each new issue fully within the meeting context, but to at least raise issues, discuss significant points, and suggest course of action.

1.3.7 Association Management (AM) System

All Committee members and active participants, and all individuals interested in Transformers Committee activities, are reminded that virtually all communications on Committee meetings and activities are handled through the Committee website (<http://www.transformerscommittee.org/>) and through electronic media. Contact information is maintained through our Association Management (AM) system, and administration of membership and meeting attendance records is facilitated by the AM System. All Subcommittee and Working Group Chairs are encouraged to use the AM system for assigning membership within their groups and for communication with their

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group members. All Committee members, active participants, and interested individuals are reminded also that you are responsible personally for maintaining the accuracy of your contact information, through the AM system, for Committee activities and communication. Updating your contact information in handwriting on a meeting roster does not result in updating your Committee contact information. Keeping your contact information maintained in the AM system assures that the Chair of any Subcommittee or Working Group you are involved with will be able to communicate with you. Details on enrolling and maintaining your contact information in the AM system can be found on the Committee website.

The AM system also allows you to check the Committee record of your membership status in individual Working Groups, Subcommittees, and the Main Committee. This can be done by checking your Personal Profile, and then clicking on Subgroup Details. If the Committee record does not match your record, please review with the appropriate WG or SC Chair.

1.3.8 Announcements / Acknowledgments

The Committee notes with sadness the passing since our last meeting of two long time friends, colleagues, and contributors to our standards activities – John Ebert and Ed Norton. Both John and Ed started their illustrious careers with Allis Chalmers; John continued his career with Waukesha and Ed continued with EPRI for many years. Both were very active in Committee work, and will be missed by many friends among our ranks.

I will take the opportunity again to tell you how proud I am of the work done by our Participants and Members, and how proud I am to work with each of you in the Committee. Thanks for your support during my tenure as Chair, and for the work you do to serve our industry. I know you will provide that same support, together with me, for Tom and Ed as they move to Chair and Vice Chair, respectively, in January.

Keep up the good work!

Respectfully submitted,
Donald J. Fallon
Chair, IEEE/PES Transformers Committee