

## **IEEE/PES Transformers Committee**

### **Chair's Report**

**Pittsburgh, PA**

**October 5-9, 2003**

#### **1.1 Report on the Technical Council Meeting**

The first PES General meeting took place during July 13 – 17, 2003, in Toronto, Ontario. Don Fallon, Secretary of our Committee, attended representing the officers of the Transformers Committee.

Attendance for this General Meeting stood at 1340 at the time of the Technical Council Meeting.

##### **1.1.1 Chair's Report**

The following is a highlight of the report:

##### **Future PES Meetings**

General Meeting 04, Denver, CO	June 6 – 12, 2004
Power Systems Conference & Expo, NYC	October 2004

Note on the Power Systems Conference & Expo: Plans reviewed by organizer John Paserba. With the T&D Expo going to a 2 year cycle on odd years, intent is to have specialized meetings in Fall of even years – this 2004 meeting in NYC will be the first. John notes that there is room for all Technical Committees to meet in NYC, and all are invited to suggest and/or participate in Panel Sessions.

##### **Power & Energy Magazine**

Mel Olken encouraged submissions by all Technical Committees. Content is at the discretion of the submitting Committee – may be on WG or TF reports, Committee activities, or any items of interest. (Transformer Committee input due June 2004, but why not plan now, solicit multiple ideas for submissions, and even submit earlier?)

##### **1.1.2 Technical Council Chair Bruce Dietzman reported the following**

- Review of Technical Council O&P Manual revision (See the Vice Chair's report)
- Promotion of goal to expand membership in PES, especially among students and emerging technology industries.
- Notation of "fast-track" standards, including several Transformers Committee projects (C57.143 Monitoring Guide; C57.98 Impulse Test Guide)
- Technical Council Meeting planners comment – several Technical Committees are scheduling a "group" meeting in January 2004 in San Diego. The meeting will be designed such that other Technical Committee can meet there also and take advantage of the "group planning".

- There will be a CIGRE Symposium in October 2003 in Montreal, with an IEC Meeting immediately following.
- Panel Session presentations from this meeting (Toronto) will be collected for posting on the PES website, and will be open to all. The intent is to advertise the quality of the content to attract greater participation and attendance at future meetings.
- PES presently working on a negative financial status; intent is to reverse this by the end of 2004.
- Planning for “targeted” small technical focus meetings, the first of which is scheduled to be on “hydrogen”, and to be held in Washington DC.
- Be mindful to keep commercialism out of all technical presentation materials – see the Author’s Kit for presentations guidelines.
- Discussion of IEEE/IEC dual logo publications. Significant negotiation has resulted in present circumstance where IEEE documents with no IEC counterpart can be accepted and published by IEEE under the dual logo. Negotiations continue, but at present there is no reciprocal agreement for IEC documents to be accepted by IEEE and be published by IEC under the dual logo, nor is there an agreement on jointly developed documents. ANSI is also involved in the process, as at present purchase of IEC standards in the US must be routed through ANSI.

### **1.1.2 Other Related Activities**

#### **Policy Development Coordinating Committee (PDCC)**

Phil Hopkinson’s document on proposed procedures for development of PES policy statements was distributed as a starting point. Each member should be prepared to suggest new areas where focused policy statements should be developed by PES, and to lead development of the PES policy statements

Frances Cleveland’s Draft Policy statement on “Environmental Issues Related to Energy Policy - Working Toward a Sustainable Energy Future” was distributed for review and comment by the various Technical Committees. If you would like to receive a copy of this draft document, write a request to me at [jin.sim@ieee.org](mailto:jin.sim@ieee.org).

#### **Emerging Technology Coordinating Committee (ETCC)**

- Review/discussion on definition of “emerging technology”
  - Technology where physics is reasonably well understood and definable (note – during afternoon panel session topic of “anti-matter” was deferred until such time as it becomes a more realistic technology).
  - Analysis suggests the possibility/probability of achieving economic viability
  - Suitability for practical implementation on a large scale.
- This Committee will:
  - be the entry point for new technology applications

- perform a design review function for emerging technologies – to understand feasibility and guide towards implementation (If there is a “natural” home for a new technology, it will go there)
- Review of DOE presentation on “Transforming the Grid to /Revolutionize Electric Power in North America”, recommending formation of a new Office of Electric T&D, promoting RD&D (Research, Development, and Demonstration of new technology. Presentation documents can be reviewed at [www.energetics.com/electric.html](http://www.energetics.com/electric.html)) (Note significance of this item in relation to subsequent 8/14/03 power disruptions.)

## **1.2 Transformers Committee Report to Technical Council**

The following is my report to Technical Council for the Committee:

### **Committee Meeting Activities**

Our Spring 2003 meeting was held April 14-18, 2002 in Raleigh, NC. Mr. Ray Nicholas of ABB was our host. 327 members and guests (and 40 companions) attended the meeting. During this meeting, we had the honor to have Mr. John Estey, PES President, as our Luncheon Speaker. John presented the plans, goals, and challenges of the PES Governing Board. He also discussed ways the IEEE/PES can help the work of the Transformers Committee. He was very well received by all members attending.

Generally, the Committee meets twice a year - in the fall and spring (usually during the last two weeks of March or first two weeks of April; and the last two weeks of October or first two weeks of November). Our meetings are 4-1/2 days in duration that begins generally on Sunday afternoon and runs through noon on Thursday.

During the Spring 2003 meeting, we were able to resolve the IEEE/NEMA issues completely. All of the C57 series of “product standards” previously copyrighted by NEMA are now transferred to IEEE for maintenance under the IEEE-SA process.

The other issue is the great concern that the IEEE metrification policy as applied to product standards may cause certain safety problems. We have many “product standards” that deal with specific weights and dimensions. When these documents are converted to all metric units, there are significant possibilities that these units can be misinterpreted causing safety issues. We are working through the appropriate IEEE-SA organizations to address these issues. The status of this issue will be discussed at the June 2003 Standards Board meeting.

Membership of the Transformers Committee currently stands at 191 members and 19 Emeritus members. The regular members consist of 96 producers, 53 users, and 42 general interest. We also have one life member and one corresponding member. Our invitation list consists of approximately 550 engineers and managers in the transformer and utility industry. Typically about 300 members and guests participate at our semi-annual meetings, and approximately 75 spouses or companions also attend the social activities. Anyone with an interest in furthering the technology is welcome at our meetings. With active participation, an invitation is extended to become a member.

The Committee goals are to encourage open participation in transnationalization of transformer standards; to promote technical and educational endeavors such as panel sessions, technical presentations, peer review of technical literature on related subjects; and to support the efforts of the Power Engineering Society. In an effort of meeting one of the major goals of PES to attract more participation, the Committee has committed itself to arrange at least two technical presentations/tutorials of educational nature at each meeting. At the last meeting, we held two technical presentations/tutorials and provided PDH for those who applied. The participation and acceptance of these two events "exceeded our expectations". Most of the presentation material is available from the Committee website (<http://www.transformerscommittee.org>).

### **Future Meetings**

#### *Fall 2003:*

October 5-9, 2003, Sheraton Station Square Hotel, Pittsburgh, PA, USA. Contact Dennis Blake, Host @ Pennsylvania Transformer Technology, Inc. Phone (724) 873-2123, Fax (724) 873-2113, [dennis.blake@ieee.org](mailto:dennis.blake@ieee.org), or one of the Committee Officers.

#### *Spring 2004:*

March 7-11, 2004, Catamaran Resort Hotel, San Diego, CA, USA. Contact Ron Kirker, Host @ San Diego Gas & Electric. Phone (858) 654-8274, Fax (858) 654-8244, [ron.kirker@ieee.org](mailto:ron.kirker@ieee.org) or one of the Committee Officers.

### **Committee Officers**

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### **Subcommittees**

Audible Sound and Vibration Subcommittee, J. Puri, Chair  
Bushing Subcommittee, F. E. Elliott, Chair  
Dielectric Tests Subcommittee, L. B. Wagenaar, Chair  
Distribution Transformers Subcommittee, J. E. Smith, Chair  
Dry-Type Subcommittee, C.W. Johnson, Chair  
HVDC Converter Transformers and Smoothing Reactors Subcommittee, R. F. Dudley  
Insulating Fluids Subcommittee, F. J. Gryszkiewicz, Chair  
Insulation Life Subcommittee, D.W. Platts, Chair  
Instrument Transformers Subcommittee, J. E. Smith, Chair  
Meetings Planning Subcommittee, G. W. Anderson, Chair  
Performance Characteristics Subcommittee, R. S. Girgis, Chair  
Power Transformers Subcommittee, E. G. Hager, Jr., Chair  
Standards Subcommittee, T. A. Prevost, Chair  
Underground Transformers and Network Protectors Subcommittee, C.G.Niemann, Chair

### **2003 General Meeting Technical Sessions**

The Transformers Committee is sponsoring two presentation sessions on transformers during the General Meeting.

### **Transformer Standards and Coordination Activities**

The Transformers Committee takes responsibility for development and revision of IEEE Standards that fall within its scope. These Subcommittees currently have over fifty Working Groups and Task Forces preparing proposals for standards projects. Information on these standards and projects can be obtained by visiting our WWW homepage:

**<http://www.transformerscommittee.org>**

Links to information on our future meeting and other information on Transformer Standards can also be found there. Our website will link you to the IEEE Standards Status Report that contains titles, abstracts, and names of contacts for each of the IEEE standards. This report is updated quarterly by the IEEE Standards Department. The status of transformer standards that are not listed in the IEEE quarterly report (either because they have been withdrawn, or they are not IEEE standards) are also included on the Transformers Committee website. The site is constantly improved by adding the committee-related items and technical information. Some of the examples of recent improvements are: posting minutes of various meetings, availability of on-line meeting reservations for upcoming meetings, an "e-mail reflector service" for efficiently sharing committee related information within the membership, a bibliography of transformer-related books and publications, technical presentations, etc.

Transformers Committee officers and Administrative Subcommittee members are also members of the USNC Technical Advisory Group to TC-14 (Transformers and Reactors). We continue to have productive meetings of the TAG at each Committee meeting.

H. Jin Sim, Chair

### **1.3 IEEE/NEMA MOU issue**

This issue is now completely resolved and will not be reported as a separate item.

### **1.4 IEEE policy on metrification**

Many thanks to all involved, we now have a workable solution. See the Standards Coordinator's report.

Respectively submitted,

H. Jin Sim, Chair

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