

## **VICE CHAIR'S REPORT – SPRING '05 – JACKSON, MS**

### **4.0 Vice Chair's Report – D. J. Fallon**

The following items report on activities of PES Committees on which the Vice Chair serves as Committee representative. There has been no general meeting since our Las Vegas Fall 2004 meeting. For the first time, rather than holding a January meeting of the Technical Committee Program Chairs (TCPC's) in Chicago to plan and schedule the technical program for the summer IEEE/PES General Meeting, this process was performed entirely through on-line scheduling tools and via e-mail.

### **4.1 PES General Meeting in San Francisco - Technical Session Tracks**

The IEEE Power Engineering Society (PES) 2005 General Meeting will be held at the Hilton San Francisco Hotel in San Francisco CA from June 12-16, 2005. Borrowing from information on the IEEE/PES website (<http://www.ieee.org/portal/site/pes/>) - Focusing on major topics concerning the power industry in today's unpredictable world, the 2005 PES General Meeting will address numerous aspects of vital importance and of interest worldwide to practicing engineers, management personnel from manufacturers, utilities and other areas of the industry, as well as academics, researchers and the non-technical professionals with whom we share our field. During approximately 100 technical sessions, many topics will be closely examined and discussed, including:

- Understanding and Responding to System-Wide Events
- Securing New Sources of Energy
- Improving Reliability and Power Quality
- Using Innovative Measurement
- Surviving New Markets and New Structures

The theme of the meeting is "**Leading the Way in Uncertain Times.**"

The preferential topics for the technical sessions are as follows:

**Track 1: Understanding and Responding to System–Wide Events**, covering such topics as:

- The Northeast Blackout of August 2003
- Physical and cyber security concerns
- Line loading, interconnect issues, IPPs
- Operating strategies under reduced generation availability (extreme contingencies)
- Releasing excess capacity through VAR control

**Track 2: Securing New Sources of Energy**, covering such topics as:

- Inherently safe nuclear reactors, clean coal technologies, gas turbine peaking units
- Solar, wind, tidal, geothermal, biomass, fuel cells
- Dispersed generation

## **VICE CHAIR'S REPORT – SPRING '05 – JACKSON, MS**

**Track 3: Improving Reliability and Power Quality**, covering such topics as:

- Power electronic switching (sub-cycle source transfer, plant-wide UPS units)
- Super-conducting energy storage
- Advances in SCADA systems (closed loop systems, advanced communications)

**Track 4: Using Innovative Measurement and Control Techniques to Improve Customer Service**, covering such topics as:

- Advanced protection algorithms, system modeling, economic dispatch
- Fault locating, down conductor detection
- Optical sensing, non-standard instrument transformers

**Track 5: Surviving New Markets and New Structures**, covering such topics as:

- Software tools (load flow, fault analysis, risk assessment, economic analysis)
- Bundled services and other new post-deregulation economic models
- Improving power engineering education

### **4.2 Technical Paper Sessions**

#### **4.2.1 Technical Paper Session at the 2005 General Meeting**

One technical session sponsored by the Transformers Committee is planned with 5 Proceedings papers to be presented during the IEEE/PES 2005 General Meeting in San Francisco. The session is presently scheduled as follows:

##### **Transformers I - Condition Assessment & Analysis Methodologies (paper session)**

Wednesday, 15 June 8:00 AM-11:00 AM (aligned to Track 1 - Understanding and Responding to System-Wide Events Track)

- “Transfer Function Analysis Using STFT for Improvement of the Fault Detection Sensitivity in Transformer Impulse Test” (05GM0230) by E. AL-AMMAR and G. KARADY
- “Transformer Test to Calculate Z<sub>0</sub> for Interconnected Windings Transformers Using Symmetrical Sequence Components” (05GM0335) by G. ROSSELLI
- “Diagnosis of Power Transformers Using Modified Self Organizing Map” (05GM0434) by A. OZDEMIR, C. SINGH, J. LIM, J. LEE, P. JI and S. KIM
- “A Transformer Condition Assessment Framework Based On Data Mining” (05GM0250) by J. YUAN, L. WU, X. LI and Y. ZHU
- “Impact of the Condition of Oil on the Polarisation based Diagnostics for Assessing the Condition of Transformers Insulation” (05GM0426) by P. PURKAIT and T. SAHA

#### **4.2.2 2005 IEEE/PES T&D CONFERENCE AND EXPOSITION**

Planning is underway for the technical program for the 2005 T&D Conference and Exposition (October 9-12, 2005) in New Orleans. The deadline for submission of

## **VICE CHAIR'S REPORT – SPRING '05 – JACKSON, MS**

Proceedings and Panel Papers to the review website is April 12, 2005. See <http://www.ieeet-d.org/call.html> for more information. A suggested Panel Session on Natural Ester Dielectric Fluids will be reviewed with the Conference Technical Program Chair for possible inclusion in the program.

### **4.3 Committee Organization and Procedures Manual**

The Transformers Committee O&P Manual revision is currently in process.

### **4.4 Power & Energy Magazine Submission**

The Transformers Committee was scheduled to contribute an article to Power & Energy Magazine for publication last year, but other priorities have prevented this work. The format and content is at the discretion of the Committee. The Vice Chair will be looking for assistance in preparation of a submittal to P&E Magazine.

Respectfully submitted, D. J. Fallon, Vice Chair