

Emerging Technologies Coordinating Committee

Main Committee Meeting Minutes

**June 26, 2007 8:00 AM to 12:00 PM
IEEE PES 2007 General Meeting – Tampa, FL**

Opening Remarks: Damir Novosel

Damir reported on a growing number of papers submitted for consideration to the ETCC. That sharp transient has created some difficulties in finding the reviewers and getting the job done on time for General Meeting preparation. There was also some discussion about the media for presentation: the current meeting (Tampa) was burdened by space problems and could not accommodate all the authors who would have wanted to have their work presented at oral sessions. ETCC remained with its prior practice of creating combo sessions with 5-6 oral presentations, selected with topical coherence in mind, and the rest of the papers added to the Monday poster session. It was agreed that this format is the best way for the Committee to operate under the present circumstances, even more so because it does not impose any additional space problems.

ETCC Presentation Session

The business session will be preceded by 6 excellent presentations that were submitted under the standard IEEE process and deemed best suited for the ETCC forum.

07GM0922-Vulnerability Assessment of Cybersecurity for SCADA Systems Using Attack Trees

Chee-Wooi Ten, Chen-Ching Liu, Manimaran Govindarasu, Iowa State University of Science and Technology

07GM0600-Applications Based on PMU Technology for Improved Power System Utilization

Srdjan Skok, Igor Ivankovic, Zdeslav Cerina, Faculty of Electrical Engineering and Computing

07GM1130-Wide-area Frequency Based Event Location Estimation

Tao Xia, Virginia Tech; Hengxu Zhang, Shandong University; Robert Gardner, Virginia Tech; Jason Bank, Virginia Tech; Jingyuan Dong, Virginia Tech; Jian Zuo, Virginia Tech; Yilu Liu, Virginia Tech; Lisa Beard, Tennessee Valley Authority (TVA); Peter Hirsch, Electric Power Research Institute (EPRI); Guorui Zhang, Electric Power Research Institute (EPRI); Rick Dong, Electric Power Research Institute (EPRI)

07GM0899-Application Service in Grid-based Future Control Centers

Huafeng Zhou, The University of Hong Kong; Felix F. Wu, The University of Hong Kong

07GM0139-An Integrated MIS Using Interactive Graphics Interface for Distribution System

Lin Yang, Harbin Institute of Technology; Zhizhong Guo, Harbin Institute of Technology

07GM1073-Nonactive-Power-Related Ancillary Services Provided by Distributed Energy Resources

Yan Xu, Oak Ridge National Laboratory; Leon Tolbert, The University of Tennessee; Tom Rizy, Oak Ridge National Laboratory; John Kueck, Oak Ridge National Laboratory

Business Session

Introductions and Approval of Minutes

All in attendance introduced themselves. Minutes of the GM 2006 meeting were approved.

Chairman's and Vice Chairman's Joint Report

Several new initiatives are underway. ETCC is in the process of getting a web-based community site to support the Working Group activities. A website will also follow. Next year's program for GM will feature super sessions and ETCC was asked to contribute to the program by supporting at least one of the super sessions. Technology Assessment Working Group is making a good progress under Dave Nichols and with the addition of the new co-chair, Dr. Branislav Djokic of NRC Canada, it will have a chance to make even better progress toward the creation of its report. The Interconnection Codes Working Group is moving its activities to the SCC21, as have many of the activities which have at least partial coverage in the PES Technical Committees. ETCC was approached to assist with creation of the pilot program for "The Grid", a five episode series on energy which will seek its sponsors among science-oriented TV channels. Several interviews with prominent PES members have been scheduled and are under way during the conference in Tampa. Talks are underway with Critical Infrastructures Institute (CRIS) to organize a joint panel session at some of the future meetings which would be oriented towards the interdependencies of communication, computing and energy networks. Other near future activities and opportunities were also discussed.

"The Grid" Presentation (Peter Wiesner, IEEE)

Peter Wiesner briefly discussed the current IEEE initiative to create an energy-related broadcast program (a five-part series on power and energy) geared toward wide audiences. Current efforts represent a series of footages and interviews shot in high definition. All of them are focused on some aspects of energy business (renewable energy resources, nuclear power, etc.). A segment in duration of about 15 minutes was presented to the ETCC audience as a sample of the effort. The plan is to create a high definition pilot program and attempt to get science-related channels (Discovery, National Geographic) interested in supporting the rest of the series financially, and complete it with the help of IEEE. During the conference in Tampa, several interviews were conducted with prominent members of the PES present at the conference about a number of subjects deemed interesting for such a program.

Stationary Battery Committee Update (Jim McDowal)

Activities were briefly presented related to development of a new Standard P1679.1 "Recommended Practice for the Characterization and Evaluation of Emerging Energy Storage Technologies in Stationary Applications."

Web Site Update (Branislav Djokic, NRC)

The ETCC activities have expanded enough to benefit from a regular communication medium such as website. The first effort in that direction is the creation of a web-based community to support the ongoing work of the ETCC Technology Assessment Working Group. Dr. Branislav Djokic of NRC Canada has undertaken the effort to create an IEEE PES ETCC Virtual Community (VC) and a web site. He gave a brief presentation on VC in an interactive session to the audience. ETCC also expects to soon have a permanent website as a means of sharing the information about our various activities. The pace of our activities due to the relatively low frequency of our general meetings will be somewhat offset by creation of an effective communication medium that the web community represents.

Technology Assessment Working Group (TAWG) Update

Dave Nichols provided an update of the Working Group activities. A number of contributions have been received since our last meeting. The report is growing, but there are still voids to fill. The addition of Branislav as a co-chair and a person in charge of our web community is expected to facilitate the flow of information during this process. The next draft of the report, a major revision, is expected to be available by the end of the year.

Working Group on Interconnection Codes Update

The Working Group has a counterpart within IEEE PES Standards Coordinating Committee (SCC) 21, where is a natural home for it. Satya reported that he needed more active membership to complete his assignments. It was agreed that the Working Group would transfer its activities permanently to SCC 21.

Other Business

There was no other business to report.

Adjournment

The session was adjourned about 12pm.