

P1409 CUSTOM POWER TASK FORCE

IEEE 15.06.05.01

Meeting Minutes

**IEEE PES 1999 Summer Meeting
Edmonton, Alberta, Canada
Tuesday, July 20, 1999**

**Crown Plaza
Klondike Room
1:00 to 3:00 PM**

The Custom Power Task Force met during the IEEE PES Summer 1999 Meeting in Edmonton, Alberta, Canada. Dan Sabin chaired the meeting. A total of 27 people signed the attendance list, a summary of which is attached. The current membership list includes 72 members, 16 correspondence members, and 129 guests.

The IEEE Standards System houses the homepage for the task force. It is located at <http://grouper.ieee.org/groups/1409/>. Currently, the following information is available at the site:

- General information about P1409
- Archive of drafts of the P1409 Guide in Adobe Acrobat PDF format
- Announcements of meetings
- Latest version of the custom power technology development list
- Minutes and agendas from prior meetings in PDF format
- Presentation material from recent panel sessions

Introductions

Sabin called the meeting to order. He announced that the draft of the Custom Power Application Guide is available on the task force web site, shown above, and is still password protected. The agenda for the meeting was reviewed and approved. The username and password for the guide was given. To obtain a copy of the user name and password, contact either the task force chair or secretary.

Minutes from New York

The last meeting of the task force was at the 1999 IEEE PES Winter Meeting in New York, New York. Middlekauff presented and reviewed the minutes at the Edmonton meeting. 48 people were in attendance. This was a working meeting, with breakout groups reviewing chapters of the application guide. After the breakout sessions, the group leaders gave a review

of the progress of their chapters. It was announced that the custom power Technology Development List was reorganized by technology type.

Panel Sessions

A panel session sponsored by the task force was held at the Winter 1999 meeting in New York on Tuesday, February 2, 1999. The session was titled “*Application of Custom Power Devices for Enhanced Power Quality.*” Sabin announced that all presentations were also on the task force web site.

Since the last meeting held in New York, there had also been another panel session at the IEEE T&D show held in New Orleans, on April 14, 1999. The session titled “*Application of Custom Power Devices for Enhanced Power Quality*” featured five panelists. Dan Sabin chaired the session. The presentations were:

- “*Field Experience with a Static Series Compensation Device*”, Stephen Middlekauff, Duke Power
- “*Power Electronics Implementation of Custom Power Applications*”, Neil Woodley, Siemens Power T&D Company
- “*A Static Transfer Switch Application to Enhance Power Quality at an Automobile Components Plant*”, Andy Dettloff, Detroit Edison
- “*Experience with a Static Series Compensation Device at a Semiconductor Facility*”, Eric John, ABB Power T&D Company
- “*Analyzing the Economics of Custom Power Solutions*”, David Mueller, Electrotek Concepts

All presentations from the New Orleans IEEE T&D panel session are also available on the task force web page.

Application Guide

The majority of the meeting was spent working in breakout groups focussing on individual chapters of the Application Guide. Four groups were formed: Chapters 6 and 9, led by Stephen Middlekauff and Jim Burke, were combined and a joint group met during this session. Chapter 7, which was Performance Measurements section, was led by Jeff Smith. David Duffy led chapter 10 on economics. Neil Woodley led chapter 3 on definitions. Reports from the individual groups followed the working session.

Chapters 6 & 9: Jim Burke reported that his group decided to combine these two chapters into one, with the new title 'Application Considerations'. Content from both chapters was reorganized into this one chapter.

Chapter 3: Definitions: Brian Johnson reported that this chapter would focus on three main sections:

1. Power Electronic Devices
2. Cross reference definitions with existing standards
3. Custom Power controller definitions

Some follow up input from group members on this chapter's content was requested. Specifically, issues with trade names were mentioned regarding names for custom power controllers. A new definition for static transfer switch will be included in future revisions as well.

Chapter 7: Performance Measurements: Jeff Smith reported this chapter will discuss some of the potential power quality indices, and will add some other IEEE standard references. Jeff is requesting input from task force members on one-line diagrams of existing applications and sample waveforms, and input on efficiency considerations.

Chapter 10: Economics: David Duffy reported that this chapter will be reorganized into four sections, including an introduction, a discussion of financial losses due to power quality events, and a discussion on the economic justification and evaluation of applying custom power solutions. Previous material that discussed a "preferred method" for financing a project, and other details on financing a project, will be excluded from this guide.

It was requested that all chapter input and revisions be sent to Sabin and the chapter chairman by September 15.

Next Meeting

The Custom Power Task Force will not meet at the IEEE Winter Meeting in Singapore in 2000. Tentatively, the Distribution Subcommittee is discussing the possibility of an alternate meeting site in February of 2000 in Las Vegas. The Custom Power Task Force will potentially meet in conjunction with this meeting. Task force members will be notified of the meeting date and location.

*Minutes submitted by Stephen Middlekauff, P1409 Secretary
August 15, 1999*

Custom Power Task Force

TF 15.06.05.01

Meeting Attendance**IEEE/PES Summer 1999 Meeting, Edmonton, Alberta, Canada****Tuesday, July 20, 1999**

Name	Company
* Gregory Ardrey	Alliant Energy
* James L. Burke	ABB Power T&D Company, Inc.
* Fouad Dagher	New England Power Service Company
Doug Dorr	EPRI-PEAC
* David L. Duffy	Enron Energy Services
* Rory Dwyer	ABB Power T&D Company
* Dave Gilmer	Yampa Valley Electric Assn., Inc.
* Micheal R. Ingram	TVA
* Eric John	ABB Power T&D Company, Inc.
* Brian K. Johnson	Department of Electrical Engineering
* John Kennedy	Georgia Power Company
* Afroz K. Khan	Reliable Power Meters
W. O. Kramer	Silicon Power Corporation
* Frank Lambert	Georgia Tech - NEETRAC
* Jim Lemke	Cinergy
* Arshad Mansoor	PEAC
* Reformat Marek	Manitoba HVDC Research Centre
* Stephen Middlekauff	Duke Power Company
* Huyen V. Nguyen	ABB Power T&D Inc.
* Henry Pinto	Metrosonics, Inc.
* D. Daniel Sabin	Electrotek Concepts, Inc.
John Schwartzberg	Silicon Power Corporation
* Jeff Smith	Electrotek Concepts, Inc.
Rao Thallam	Salt River Project

Name

Company

- * Marek Waclawiak
- * James Wikston
- * Neil H. Woodley

- United Illuminating Company
- Hatch Associates Ltd.
- Siemens Power T&D Co.

* Denotes task force member

Total in Attendance: 27