

**Task Force on Fault Current Limiter Testing  
Sponsored by IEEE Switchgear ADSCOM**

**2009 IEEE/PES Switchgear Committee Meeting  
May 6<sup>th</sup>, 2009  
Minutes  
Asheville, N. C.**

Mischa Steurer called the meeting of the Task Force to order at 8:30 AM with 22 members and guests present.

1. Introductions of the attendees were made.
2. The IEEE required slides on Patents for Working Groups were discussed. Members were advised to abide by these requirements.
3. The minutes of our January 9, 2009 meeting were approved as submitted.
4. A SharePoint website has been established for our work. Contact "Roger Leete" [roger.leete@bishopgroup.net](mailto:roger.leete@bishopgroup.net) to request user name / password.

You can access the website at <http://www.bishopgroup.net/links.htm>

Click on "view" next to Advanced Electrical Power Systems

Click "OK" on pop-up (Digital Certificate)

Enter user name and password

Navigate to "FCL Testing Task Force"

Documents under "Shared Documents" can be checked out for editing.

New documents can be uploaded but must be checked in for others to view

5. A draft PAR was presented for discussion during the Task Force meeting. The revised version was submitted to the Switchgear ADCOM Committee for approval.

Several minor changes were made at the ADCOM meeting as shown below:

Title - Guide for Testing of fault current limiters operating on condition based impedance increase for AC systems above 1000 V

Scope - This guide is for the testing of fault current limiters (FCLs) operating on condition based impedance increase for AC systems above 1000 V. This guide does not include series reactors and fuses covered in C37.40.

Purpose - The purpose of this document is to provide guidelines for testing of fault current limiters (FCLs) operating on condition based impedance increase for AC systems above 1000 V.

ADCOM also asked that we coordinate with the High Voltage Power Electronics Stations Subcommittee of the Substations Committee before submittal of the PAR.

This item will be revisited at the fall meeting.

6. Presentations - The following presentations were made on FCL technology and testing requirements. A copy of the presentations is available on the SharePoint site.
  - Mahesh Gandhi – Silicon Power, SGTO w/ internal shunt reactor
  - Robert Dommerque - Nexans, Resistive w/o shunt reactor
  - Juan Balda - University of Arkansas, National Center for Reliable Electric Power Transmission
  - Bruce Gamble – American Superconductor, Resistive w/ external shunt reactor and FCL Cable

- Andreas Brandt – ABB, Is Limiter
- Franco Moriconi – Zenergy Power, Saturable iron core
- Mischa Steurer – Florida State University, “An Assessment of Fault Current Limiter Testing Requirements”, available from [http://www.oe.energy.gov/DocumentsandMedia/FCL\\_Testing\\_Requirements\\_Report\\_Final.pdf](http://www.oe.energy.gov/DocumentsandMedia/FCL_Testing_Requirements_Report_Final.pdf)

7. Next meeting – Tuesday, September 29, 2009 at the IEEE Switchgear Committee meetings in Denver, Colorado. The meeting agenda will be focused on presentations and discussion of common test requirements for all FCL technologies.

The meeting was adjourned at 4:30 PM.

Submitted by:  
Frank Lambert