

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

## 2009 IEEE/PES Switchgear Committee Meeting September 29<sup>th</sup>, 2009 DRAFT Minutes Denver, Colorado

Mischa Steurer called the meeting of the Task Force to order at 2:00 PM with 21 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 May 6, 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. Chairman's Report:
  - The need to develop a Guide for Testing Fault Current Limiters has been coordinated closely with CIGRE WG A3.23. The CIGRE WG is not addressing testing and is invited to participate in this IEEE Task Force effort. We will endeavor to schedule the meetings back to back to facilitate involvement from both communities.
  - "Towards a Guide for Testing Emerging Fault Current Limiters", by Mischa Steurer, Mathias Noe, Brian Marchionini, Frank Darmann, and Frank Lambert, has been accepted for presentation at the 2010 CIGRE Meeting. This paper is intended to highlight the efforts underway by the FCL community to work together through this IEEE TF to develop a guide for testing FCLs.
  - A public information website has been established at FSU, <http://www.caps.fsu.edu/fcl-testing.html>. This site is intended to highlight the effort of this TF and encourage involvement.
6. A revised draft PAR was presented for discussion during the Task Force meeting. The revised version was submitted to the Switchgear ADSCOM Committee on 10/1 and was approved. The PAR will be submitted to NesCom for approval.

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

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

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 1000 V and above.

Both the IEEE Power Electronics Standards Coordinating Committee (SCC-22) and the IEEE Power and Energy Substations Committee / SC10 - High Voltage Power Electronics Stations have agreed to jointly sponsor the PAR.

7. Presentations - The following presentations were made on FCL technology and testing requirements. A copy of the presentations is available on the SharePoint site.
  - Francisco DeLaRosa – Zenergy Power, Common Test Requirements for Induction FCLs
  - Daisuke Iioka – Florida State University / Nagoya University, “Matrix of Applicable Tests on FCL by Type”
  - Alexander Usoskin – Brucker EST, “Inductive Shielded FCL”
8. The Excel Spreadsheet “Matrix of Applicable Tests on FCL by Type” will be revised and augmented with instructions. It will be made available to the Task Force members not later than 11/1/2009 for providing information about specific testing needs per test category on each FCL technology that they are familiar with and returned to [d\\_iioaka@mem.iee.or.jp](mailto:d_iioaka@mem.iee.or.jp) by 1/31/10. The results will be compiled for discussion in a TF teleconference to be scheduled the later half of February, 2010.
9. Next meeting – Spring IEEE Switchgear Committee meetings (April 25-29, 2010) in Myrtle Beach, South Carolina. Information on the date and time of the meeting will be distributed as soon as the agenda has been finalized.

The meeting was adjourned at 5:40 PM.

Submitted by:  
Frank Lambert