

C57.139 - Draft IEEE Guide for Dissolved Gas Analysis Of Load Tap Changers
Tuesday, March 18, 2008
Charlotte, North Carolina
Minutes of WG Meeting

Fredi Jakob called the WG meeting to order at 11:00 am, Tuesday, March 18, 2008. WG Secretary Susan McNelly was also present. There were 30 members and 45 guests present with 8 guests requesting membership.

Guests requesting membership were:

Claude Beauchemin
Jonathan Cheatham
Beth Dumas
Jack Harley
David Harris
Josh Herz
Wayne Johnson
Arturo Nunez

Agenda:

1. Welcome and Introduction
2. Patent considerations
3. Approval of Fall 2007 minutes
4. Goals
 - A. Decisions on Type Table
 - B. Decision on Tutorial
 - C. Draft to IEEE for review
 - D. Draft ready to Ballot
5. Draft Review
 - A. Type Table, Dave Wallach
 - B. Tutorial Review
 - C. Report on Utility Feedback, Jim Dukarm
 - D. Guide Appendix, Statistical Tool
6. Summary
7. New Business
8. Adjourn

Introductions of the participants were made.

The IEEE Patent disclosure requirements were discussed and a request was made for disclosure of any patents that may be related to the work of the WG. There were no responses to the request for disclosure.

Approval of minutes from the Fall 2007 meeting in Minneapolis, Minnesota was requested. The minutes were approved as written.

Goals:

Type Table: We need to make a decision on the Type Table. Dave Wallach presented the status of the Type Table to the group.

Type Table

OLTC CONTACT TYPE	
ARCRES	Arcing Switch Resistive (Arcing contacts are tap -changer contacts where switching arcs occur in oil during a normal tap change operation bridging through resistors.)
ARCREACT	Arcing Switch Reactive (Arcing contacts are tap -changer contacts where switching arcs occur in oil during a normal tap change operation bridging through a reactance)
VAC	Vacuum (Vacuum contacts have the switching arc contained in a vacuum bottle)
OLTC TYPE	
T	Switch with separate tap selector
S	Tap selector also makes/breaks
VENTING	
S	Sealed Tank (exclude presence of pressure relief device)
U	Uni-directional (vents on pressure)
B	Bi-directional (vents and breathes freely through dessicant breather)
F	Free (vents and breathes freely to atmosphere)

Tutorial: The rewrite of the tutorial was read. Fredi asked for comments on the rewrite.

Comment that there is some cellulose in the LTC, maybe just not as much. This will be revised in the tutorial section.

It was discussed whether the term LTC should be replaced with the term OLTC. Since this would require a change in the scope, this would also require a revised PAR.

If the tutorial is left in the main body, it needs to be considered normative. If it is in the Annex, it would be considered informative. Tom Prevost indicated his preference at least this first time around would be to leave it in the main body. Rick Ladroga indicated that he would be tempted to go the other direction due to the liability.

A consensus vote was taken to determine where the tutorial should reside. The overwhelming response was to leave it in the main body.

Fredi, Jim, and Xushen will work on further revisions to the tutorial.

Jim Dukarm gave an overview of the data received from utilities for actual LTC models. Jim indicated that in 95% of the cases they came up with very acceptable values. Jim has not yet gotten actual feedback from the utilities on the results.

There was a discussion regarding the inclusion of case studies in the Guide. It may be possible to get one such case study, which has already been completed written up and into the present draft Guide before ballot.

Jim also discussed Annex A, which provides a practical means of developing OLTC norms.

Fredi asked for a show of hands for proceeding with the guide without waiting for feedback from the utilities. There was overwhelming support.

Joe Kelly indicated that he prefers a ratio approach rather than a statistical approach. Fredi responded that most people don't have the ability to analyze the data themselves.

Joe Kelly asked if we were going to use the term hot metal or heating gases. Hot metal will be used.

The meeting was adjourned at 12:03 pm.

Fredi Jakob
Chair

Susan McNelly
Secretary