

Working Group for the Revision of IEEE 62 – PC 57.152  
Guide for Diagnostic Field Testing of Fluid Filled Power Transformers, Regulators and  
Reactors

DRAFT & UNAPPROVED Fall 2011 Meeting Minutes Boston, MA  
8:00 AM November 1, 2011

The Working Group met on November 1 and began with introductions of all. A total of 98 people with 50 Guests were in attendance, including 48 Members and with 18 requesting membership. We had a quorum.

The spring 2011 meeting minutes were approved.

Draft 4.2 has been issued and posted on the website.

We held one web meeting since the San Diego meeting when we discussed the following:

Proposed revised section on 6.3.11 Moisture in Oil and 6.3.12 Water Content (Oleg Roizman). – The old and new versions were discussed, so the WG could see the proposed changes. The draft included numbers for, PPM and Relative Saturation, as well as Natural Ester Fluids. There was consensus that we should leave relative humidity out of the main document, and put something about it in an Annex. A task force, consisting of Oleg, Roizman, Jim Thompson, John Luksich, Claude Beauchmin, Maik Koch and Mario Locario, was set up to develop such an annex. While the proposed draft on moisture in oil and water content would not be immediately adopted, it is foreseen that would be best the parent standard for moisture (C57.106) include the relative saturation specific values. If the annex is available it could be included at initial issue, or in a subsequent revision after the parent standard is issued. The subject of moisture has been an on going topic it is believed that publishing PC57.152 should not be restrained while an annex, or parent standard are developed.

Induced Voltage Testing section has been added to the Guide. It was agreed to add more footnotes about the testing and remove Table 1 or the chart of the transformer health conditions before performing the Induced Test. The Caution Note will be expanded to include more specific especially for transformers over 69 kV.

We reviewed a new section on Applied Voltage Testing. We agreed to add Applied Voltage Section before the Induced Test in the main body of the Guide as opposed to the Annex.

We agreed to move away from IEEE 62 format / arrangement to proposed sequence of testing or at least focus on winding and tests related to the main core and coil then list by Bushings, LTC and Ancillary Equipment. The Chart for commissioning, in-service, after system fault and after internal fault was updated with a column added to reference the specific article of PC57.152. We will try to follow the order of the tests but may need cautions depending upon magnetization of the core, etc.

We discussed the Frequency Response Test and determined that the test should be Optional for Commissioning and AN or As Needed for other times. The Winding Resistance test should be REC (Recommended) for Commissioning. We added the Applied Voltage test and it is Opt for all cases. We will address reference to C57.93 for installation tests and PC57.125 for the tests after faults.

The Work Plan spreadsheet has been updated to show progress. All sections have been presented and reviewed. Reference section will be reviewed after the overall order of the document is revised. Gary Hoffman volunteered to help with this effort.

The document now comprises 35 sections which are authored by many different persons. The document will be reorganized to put Safety closer to the beginning and to flow more logically. Each section that has a parent standard will be sent to the Working Group Chairman for that Standard to review and insure that the proposed draft is in line with parent standard. A 60 day reply period will be given.

Our PAR expires in December 2012. The WG hopes to finish basic comments and final edits with a ballot among the WG before Nashville. At least three months need to be allocated for ballot resolutions.

The meeting was adjourned at 9:15 AM.

Respectively submitted for,  
Jane Verner - Chair  
Loren Wagenaar Co-Chair  
Kipp Yule - Secretary  
2 November 2011

DRAFT