

Final(11-Apr-19)l(26-March-19)

C57.150 – IEEE Guide for the Transportation of Transformers and Reactors Rated 10 000 kVA or Higher
Tuesday, March 26, 2019; 11:00 a.m. – 12:15 p.m.
Hilton Anaheim Grand Ballroom B
Anaheim, California, USA
Minutes of WG Meeting

The meeting was called to order at 10:57 a.m. by Chair Greg Anderson. Vice Chair Ewald Schweiger and Secretary Marnie Roussell (writer of Minutes) were also present.

There was a total of 130 people present. This included 28 of the 45 members in the working group, resulting in a quorum. Attendance was taken utilizing RFID tabulation. Paper rosters were not passed around, so any guests desiring membership were asked to contact one of the WG leaders.

Agenda

1. Welcome and Call to Order
2. Questions, Patent Issues
3. Determination of Quorum (determined by RFID system)
4. Approval of the Minutes
5. Old Business
 - a. Timeline of Project
 - b. Review of assigned work
6. New Business
7. Additional discussion, ideas
8. Adjourn

Introductions of the Chair, Vice Chair, and Secretary were made.

There were no objections to the agenda as identified above.

Brief Slideshow: “Greg’s Recent Journey Thru the Panama Canal” focusing on the challenges on OF ocean shipment.

A call for essential patent claims was made. No patent claims were identified.

Minutes of the Fall 2018 Meeting were posted within the minutes of the SC Power Transformers. The minutes were approved with a motion by Roger Verdolin and seconded by Susan McNelly.

List of Meeting Attendees is documented in the AMS system. Scott Reed requested and was granted membership at this meeting.

Revision Topics/Assignments

The Task & Assignments were reviewed and status provided.

The participants were asked to volunteer for additional contribution to the scope and more volunteers are still needed. Furthermore, the group was asked to send updates to all the three WG leaders. Teams of the assigned tasks will be contacted by the WG leaders on a frequent basis to get an update of their progress.

| Assignments Chart | | | | |
|--------------------------|---------------------------------|---|---|----------------------|
| | <u>Task</u> | <u>Brief Scope</u> (see meeting minutes) | <u>Assigned To</u> (team assigned to each task) | <u>Status</u> |
| 1 | CIGRE Guide | Compare CIGRE document 673 -WG A2.42-2016 to our Guide. Identify topics to be included. | H. Abdelkamel, M. Locarno, K. Vijayan, S. Nambi, E. Schweiger, B. Webb | Done |
| 1.3 | | #3 Definitions | Paul Dolloff, Mario Alonso | WIP |
| 1.4 | | #4 Transport Incidents - case studies | Paul Dolloff, Mario Alonso Need more volunteers | WIP |
| 1.5 | | #5 Design Considerations for Transportation | Need more volunteers | WIP |
| 1.7 | | #7 Design review | See item 13 below | |
| 1.8 | | #8, 12, 13 Transport (process, planning, instructions) | Need more volunteers Shankar Nambi | WIP |
| 1.9 | | #9 10 Impact recorder application and data interpretation | See item 4 below | WIP |
| | | Annex Flowchart for test/conditions after transport | Need more volunteers | WIP |
| 2 | Swimlanes | Helpful "matrix/table" to Guide | D. Wallach | Done |
| 3 | Impact Recorders | Enhance section on impact recorders | S. Nambi, K. Nunn, R. Rathi, J. Watson, P. Dolloff, Bruce Webb | WIP |
| 4 | Internal Bracing | Add guidance (careful, a design issue!) | R. Verdolin, J. Watson, M. Alonso , Miljenko Hrkac | WIP |
| 5 | External Bracing, Lashing, etc. | Provide some guidance | Kris Zibert Pugazhenthii Selvaraj | WIP |
| 6 | Exceeding Impact Limits | Add: What to do if specified impact limits are exceeded. | R. Verdolin, J. Watson, Samuel Sharpless | WIP |
| 7 | Tests | Compare Tests, C57.150 vs. C57.152 | W. Binder, J. Watson | WIP |
| 8 | Air Pressure | Add: How internal air pressure changes w/ambient temperature. | J. Arteaga, Peter Kleine | WIP |
| 9 | SFRA | Enhance section on SFRA | G. Anderson, R. Su, K. Sullivan | WIP |
| 10 | C57.93, Installation Guide | Review C57.93 for any overlap and conflicts.(Doc submitted to R- ev com) | J. Sen, Mike Lau | Done |
| 11 | Shipping w/Natural Ester Fluids | Add section of unique issues | R. Simonelli, A. Jhala | WIP |
| 12 | Mobile Subs | Add section of unique issues | K. Vijayan Need more volunteers | WIP |
| 13 | Design Review Checklist | Checklist of discussion topics during a design review | K. Vijayan, Mario Alonso, A. Jhala, Amitabh Sarkav K. Vijayan, Mario Alonso, A. Jhala; K. Vijayan, Mario | WIP |

CIGRE Guide

The following task of the CIGRE Guide were combined with the main task

- Impact recorder #9 & 10
- Design Review#7

Case studies will not be included in the Transportation Guide

Swim Lanes

Dave Wallach completed the Swim Lanes Concept matrix. It is posted to the website.

Impact Recorders

Roger indicated that impact recorders will be discussed at the next meeting.

C57.93 Installation Guide

Mike Lau indicated that the document has been submitted to Revcom.

Greg noted the demarcation point as placement of the transformer on the foundation.

Shipping w/Natural Ester Fluids

Alan Sbravati volunteered to assist with this section.

Design Review Checklist

Dave Wallach suggested that the working group add a Design Review Checklist to the guide. Krishnamurthy Vijayan, Mario Alonso, and Anirudhdhsinh Jhala volunteered to develop this checklist.

New Business – There was no new business

The meeting was adjourned at 11:38 a.m. p.m. with a motion by Roger Verdolin that was seconded by Shankar Nambi.

The Working Group plans to meet at the Fall 2019 Transformers Committee Meeting held October 27-31; Columbus, Ohio USA.

Greg Anderson
WG Chair

Ewald Schweiger
WG Vice Chair

Marnie Roussel
WG Secretary & Technical Editor