

Task Force on Consolidation of Insulating Liquid Guides

Monday, April 3, 2017

9:30 – 10:45 AM

Grand Ballroom D

Astoria Crowne Plaza Hotel, New Orleans, LA

Chairman Tom Prevost

Secretary Scott Reed

The meeting was called to order at 9:39 am by Chair Tom Prevost.

There were 28 of 50 members present. There were 44 guests and 54 visitors. A membership quorum was achieved. Guests attending the WG meeting for the first time who request membership or who have not attended 2 meetings in a row (including the present meeting, will be deferred until the next meeting attended.

Agenda

- 1) Introductions
- 2) Quorum
- 3) Approval of agenda
- 4) Approval of Fall 2016 minutes
- 5) Call for patents
- 6) Review of current document status
  - a. C57.147 "Guide for Acceptance and Maintenance of Natural Ester Insulating Fluids in Transformers and Other Electrical Equipment"
    - i. In Revision process, PC57.147
    - ii. PAR opened 6-Feb-2012
    - iii. PAR Expiration 31-Dec-2016
    - iv. Ballot Status
  - b. C57.111 "Guide for Acceptance of Silicone Insulating Fluid and Its Maintenance in Transformers"
    - i. Revision Due Date 12/31/2019
  - c. C57.121 "Guide for Acceptance and Maintenance of Less-Flammable Hydrocarbon Fluid in Transformers"
    - i. Revision Due Date 12/31/2019
    - ii. Revision project planned, no PAR submitted
- 7) New Document:
  - a. Title
  - b. Scope
  - c. Purpose
- 8) Establishment of Task Forces
  - a. Editorial
  - b. Test methods
  - c. Mineral Oil
  - d. High Molecular Weight Hydrocarbons
  - e. Silicon
  - f. Natural ester
  - g. Synthetic Ester
  - h. Others?
- 9) New Business
- 10) Adjourn

Due to the time constraints, attendees did not introduce themselves.

There was unanimous approval of the Agenda.

There was a unanimous approval to the Fall 2016 Vancouver meeting minutes.

Chairman Tom posted the Patent Claim. No notifications or comments were received.

**Chair's Remarks:**

As a review of the current document status:

-Patrick McShane announced that he intends to send the Draft C57.147 out for recirculation.

-Chairman Tom Prevost shared that he has talked to the SA about C57.111 and C57.121 and they may be withdrawn as a reference but will still be available as a reference.

Next, Chairman Prevost open the floor to discuss the Title and Scope as part of the requirement to form a PAR.

After consideration of various proposals, Patrick McShane made a motion and Jim Graham seconded the motion for the title called, 'Guide for Acceptance of Maintenance of Insulating Liquids in Transformers and Related Equipment.' The motion carried unanimously.

Regarding the Scope and Purpose, Chairman Prevost outlined the following parameters:

1. Analytical tests and their significance for the evaluation of insulating liquids.
2. The evaluation of insulating liquids as received, before and after filling into equipment.
- 3, Methods of handling and storage of insulating liquids.
4. The evaluation of service-aged insulating liquids.
5. Health and environmental care procedures for insulating liquids.

There was discussion about refilling and mixing of fluids, so Mark Perkins made a motion and Diego Robalino seconded the motion to add to the scope, 'Mixing of Fluids.' The motion carried.

As such the Task Force finalized the Scope and the Purpose as listed below:

**Scope:**

This guide provides acceptance and maintenance criteria for insulating liquids used in transformers, tap changers, regulators and reactors.

**Purpose:**

To assist the user of the equipment in evaluating insulating liquids:

- As received from insulating liquid supplier prior to processing and/or filling into equipment.
- Received in new equipment filled prior to energization.
- In service-aged equipment.

This guide also discusses the following related in insulating liquids:

- Test methods and their significance
- Methods of handling and storage
- Mixtures of insulating liquids
- Re-processing, re-claiming and replacement

This guide does not cover dissolved gas analysis of insulating liquids, which is covered by other IEEE Standard Guides.

No New Business was discussed and the meeting was adjourned at 10:49 am.