
myProject™ - PC57.147 PAR Detail

Submitter Email: bill.chiu@ieee.org

Type of Project: New IEEE Standard

PAR Request Date: 17-Oct-2003

PAR Approval Date: 10-Dec-2003

PAR Expiration Date: 31-Dec-2008

PAR Signature Page on File: Yes

Status: PAR for a New IEEE Standard

Project: C57.147

Root Project:

1.1 Project Number: PC57.147

1.2 Type of Document: Guide

1.3 Life Cycle: Full Use

1.4 Is this project in ballot now? Yes

Ballot History

Ballot Start Date: 2007-08-14

Ballot Close Date: 2007-09-13

Response Percent: 78

Approval Percent: 99

Abstain Percent: 4

Draft Number: 11

2.1 Title: Guide for Acceptance and Maintenance of Natural Ester Fluids in Transformers

3.1 Working Group: Insulating Fluids - Natural Ester Fluid Working Group (PE/TR/InsFluid-WGC57.147)

Contact Information for Working Group Chair

Charles P Mc Shane

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Phone: 2625244591

Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Power Engineering Society/Transformers (PE/TR)

Contact Information for Sponsor Chair

Donald J Fallon

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Contact Information for Standards Representative

Bill Chiu

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4.1 Type of Ballot: Individual

4.2 Expected Date of Submission for Initial Sponsor Ballot: 06/2005

4.3 Projected Completion Date for Submittal to RevCom: 06/2006

5.1 Approximate number of people expected to work on this project: 0

5.2 Scope: This guide recommends tests and evaluation procedures, as well as criteria and methods of maintenance, for natural ester based (NEB) transformer insulating fluids. These base fluids are also known as vegetable seed oils. Methods of reconditioning NEB insulating fluids are also described. Where instructions given by the transformer or fluid manufacturer differ from those given in this guide, the manufacturer's instructions are to be given preference.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: There is growing interest and usage of natural ester dielectric coolants for transformer applications. These fluids are currently being used in the range of small distribution class transformers to medium power transformers. They are being applied in new equipment as a retrofill for existing equipment. It is important that a guide be developed to assist the transformer operator in evaluating and processing fluids received in new transformers, as received from the fluid manufacturer for filling transformers, and as processed into such equipment. It also assists the operator in maintaining the fluid in serviceable condition. This guide, therefore, recommends standard tests and evaluation procedures, methods of reconditioning and reclaiming natural ester fluids, and the analysis results at which these process become necessary. It will also address the routines for restoring resistance to oxidation, where desired, by the addition of inhibitors.

5.5 Need for the Project:

5.6 Stakeholders for the Standard:

Intellectual Property

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board? Yes

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project? No

6.1.c. Is the Sponsor aware of possible registration activity related to this project? No

7.1 Are there other standards or projects with a similar scope? No

7.2 Future Adoptions

Is there potential for this standard (in part or in whole) to be adopted by another national, regional, or international organization? Yes

If Yes, the following questions must be answered:

Other Organization Contact Information: IEC 10

Contact Person: Joseph J Kelly

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7.3 Will this project result in any health, safety, security, or environmental guidance that affects or applies to human health or safety? No

7.4 Additional Explanatory Notes: (Item Number and Explanation)
