

PC57.163

Submitter Email: jverner@ieee.org
Type of Project: New IEEE Standard
PAR Request Date: 20-Jan-2014
PAR Approval Date: 27-Mar-2014
PAR Expiration Date: 31-Dec-2018
Status: PAR for a New IEEE Standard

1.1 Project Number: PC57.163
1.2 Type of Document: Guide
1.3 Life Cycle: Full Use

2.1 Title: Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances

3.1 Working Group: Admin SC - Transformer Capability Under Geomagnetic Disturbance WG (PE/TR/Admin-WGC57.163)

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

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2016

4.3 Projected Completion Date for Submittal to RevCom: 10/2017

5.1 Approximate number of people expected to be actively involved in the development of this project: 75

5.2 Scope: This guide describes the effects of Geomagnetic Disturbances (GMD) on power transformers when there is the presence of Geomagnetically Induced Current (GIC) in a power transformer. It establishes specification parameters and performance characteristics for power transformers to minimize the risk and impact when GIC is present in the power system. It provides background that can help evaluate the effect of GIC on a power transformer design and its GIC capability. This includes the evaluation techniques to determine the performance characteristics while under the influence of GIC.

It does not include the effect of GIC on other power system devices beyond power transformers and accessories. It does not discuss mitigation techniques and mitigation devices such as neutral blocking devices on equipment beyond power transformers and accessories.

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

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: There are no IEEE Standards that discuss the impact of Geomagnetic Disturbances (GMD) on power transformer and vulnerability to GMD. This proposal does not provide specific requirements, but offers 'guidance' regarding the assessments of the transformer vulnerability to GMD. Users do not know what to specify from transformer manufacturers so there is a wide variety of requests and many misconceptions.

5.6 Stakeholders for the Standard: Utility users, Power Transformer Manufacturers, Consultants, Academia, Generator Owners

Intellectual Property

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

6.1.b. 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 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation):