PC37.301

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Type of Project: Revision to IEEE Standard C37.301-2009
PAR Request Date: 15-May-2017
PAR Approval Date: 28-Sep-2017
PAR Expiration Date: 31-Dec-2021
Status: PAR for a Revision to an existing IEEE Standard
Root Project: C37.301-2009

1.1 Project Number: PC37.301
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for High-Voltage Switchgear (Above 1000 V) Test Techniques--Partial Discharge Measurements

3.1 Working Group: Adscom - Standard for High-Voltage (Above 1000 V) Test Techniques - Partial Discharge Measurements
(PE/SWG/Adscom-WG_C37.301)
Contact Information for Working Group Chair
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3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Switchgear (PE/SWG)
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Name: Paul Sullivan
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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: 01/2021
4.3 Projected Completion Date for Submittal to RevCom
Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2021

5.1 Approximate number of people expected to be actively involved in the development of this project: 40
5.2 Scope: This International Standard is applicable to the measurement of partial discharges which occur in electrical apparatus, components or systems when tested with alternating voltages up to 400 Hz or with direct voltage. This standard The provisions of this standard should be used in the drafting of specifications relating to partial discharge measurements for specific power apparatus. It deals with electrical measurements of impulsive (short-duration) partial discharges, but reference is also made to non-electrical methods primarily used for partial discharge location (see annex F). Diagnosis of the behaviour of specific power apparatus can be aided by digital processing of partial discharge data (see annex E) and also by non-electrical methods that are primarily used for partial discharge location (see annex F). This standard is primarily concerned with electrical measurements of partial discharges made during tests with alternating voltage, but specific problems which arise when tests are made with direct voltage are considered in clause . The terminology, definitions, basic test circuits and procedures often also apply to tests with other frequencies, but special test procedures and measuring system characteristics, which are not considered in this standard, may be required, provides normative requirements for performance tests on calibrators.

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: The IEC 60270 2000-12 contains all the appropriate material regarding definitions, measuring systems, instrumentation, calibration, maintenance of calibrators and measuring systems. The test procedure and the pattern recognition material need to be upgrade for switchgear partial discharge measurements.
The IEC 60270 document is adopted as the basic material. References to specific IEEE standards are added, the test procedure (clause 8 of IEC 60270) is completely revised for specific application to switchgears, and an informative annex is added giving guidance on pattern recognition of partial discharges in switchgears.

The need for the project is to update the IEEE portion and review the IEC adopted document to confirm it is still applicable and it is

5.6 Stakeholders for the Standard: Users and manufacturers of switchgears rated above 1000 V

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: The HVTT group is reviewing the Partial Discharge test techniques for inclusion upon their completion and this update is a stopgap measure to ensure the document is not withdrawn.