

P1613

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Type of Project: Modification to Approved PAR

PAR Request Date: 16-Mar-2009

PAR Approval Date: 11-May-2009

PAR Expiration Date: 31-Dec-2012

Status: Modification to a Previously Approved PAR for the Revision of a Standard 1613-2003

Root PAR: P1613 **Approved on:** 07-Nov-2008

Project Record: 1613

1.1 Project Number: P1613

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations

Old Title: Standard Environmental and Testing Requirements for Communications Networking Devices in Electric Power Substations

3.1 Working Group: Substations C2 (PE/SUB/WGC2)

Contact Information for Working Group Chair

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3.2 Sponsoring Society and Committee: IEEE Power & Energy Society/Substations (PE/SUB)

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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: 03/2009

4.3 Projected Completion Date for Submittal to RevCom: 06/2009

5.1 Approximate number of people expected to be actively involved in the development of this project: 15

5.2 Scope: This document specifies standard service conditions, standard ratings, environmental performance requirements, and testing requirements for communications networking devices and communications ports in protective relays installed in electric power substations. It does not cover such equipment designed for operation in other environments, such as office locations. Other than their communications ports, it does not cover such equipment used in protective relaying applications, for which IEEE Std C37.90 [B6], IEEE Std C37.90.1 -[B7], IEEE Std C37.90.2 [B8], and IEEE Std C37.90.3 [B9] shall apply.

Old Scope: This document specifies standard service conditions, ratings, environmental performance and testing requirements for communications networking devices installed in electric power substations. It does not apply to such equipment designed for operation in other environments, such as office locations.

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

5.4 Purpose: The purpose of this standard is to define the environmental conditions present in electric power substations and to establish a common reproducible basis for designing and

Old Purpose: The purpose of this standard is to define the environmental conditions present in electric power substations and to establish a common reproducible basis for designing and

evaluating communications networking devices to be installed in those substations. It is a freestanding document, with no normative references to other standards. evaluating communications networking devices to be installed in those substations. It is a free standing document, with no references to other standards."

5.5 Need for the Project: This standard was approved in 2003. Since that time, Corrigendum 1 was approved in 2006 and Amendment 1 was approved in 2007. In addition, questions have arisen regarding the correct interpretation of an existing requirement of "no fans or forced ventilation". Under this project, the corrigendum and the amendment will be incorporated into the document, and the language concerning "fans or forced ventilation" will be clarified.

5.6 Stakeholders for the Standard: Manufacturers, users and specifiers of electric utility substation communications networking devices and the consultants to those industries.

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

If yes, state date: 12-Jan-2009

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 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: No

b. Joint Development

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

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): The Scope and the Purpose have been updated to include comments submitted with a Recirculation Ballot. These changes cleared the negative ballots and added clarity to the document.
IEEE Std C37.90-2005 Standard for Relays and Relay Systems Associated with Electric Power Apparatus
IEEE Std C37.90.1-2002 Surge Withstand Capability (SWC) Tests for Protective Relays and Relay Systems
IEEE Std C37.90.2-2004 Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers
IEEE Std C37.90.32001(R2006) Electrostatic Discharge Tests for Protective Relays