PC62.82.1

Submitter Email: iuda.morar@pacificorp.com
Type of Project: Modify Existing Approved PAR
PAR Request Date: 13-Apr-2010
PAR Approval Date: 17-Jun-2010
PAR Expiration Date: 31-Dec-2010
Status: Modification to a Previously Approved PAR for the Revision of a Standard
Root PAR: PC62.82.1 Approved on: 11-Sep-2009
Project Record: No Project Record
Root Project: 1313.1-1996 Edit Root Project Record

1.1 Project Number: PC62.82.1
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Insulation Coordination - Definitions, Principles, and Rules

3.1 Working Group: 3.4.18 Preferred Voltages & Insulation Coordination Std Maintenance WG (PE/SPDHV/HV3.4.18)
Contact Information for Working Group Chair
Name: Iuda Morar
Email Address: iuda.morar@pacificorp.com
Phone: 503-813-6937

Contact Information for Working Group Vice-Chair
None

3.2 Sponsoring Society and Committee: IEEE Power & Energy Society/Surge Protective Devices/High Voltage (PE/SPDHV)
Contact Information for Sponsor Chair
Name: Kenneth Brown
Email Address: kbrown@leviton.com
Phone: (619) 421-7485

Contact Information for Standards Representative
Name: James Wilson
Email Address: jwwilson@ieee.org
Phone: 314-822-5480

4.1 Type of Ballot: Individual
4.2 Expected Date of Submission of Draft to the IEEE-SA for Initial Sponsor Ballot: 09/2008
4.3 Projected Completion Date for Submittal to RevCom: 08/2010

5.1 Approximate number of people expected to be actively involved in the development of this project: 14
5.2 Scope: This insulation coordination standard applies to three-phase ac systems above 15 kV. This standard specifies the procedure for selection of withstand voltages [basic lightning impulse insulation level (BIL) and basic switching impulse insulation level (BSL)] for equipment phase-to-ground and phase-to-phase insulation systems. It also identifies a list of standard insulation levels, based on the voltage stress to which the equipment is being exposed. Although the principles of this standard also apply to transmission line insulation systems, the insulation levels may be different from those identified as standard insulation levels.

Old Scope: This insulation coordination standard applies to three-phase ac systems above 1 kV. This standard, IEEE Std C62.82.1 specifies the procedure for selection of withstand voltages [basic lightning impulse insulation level (BIL) and basic switching impulse insulation level (BSL)] for equipment phase-to-ground and phase-to-phase insulation systems. It also identifies a list of standard insulation levels, based on the voltage stress to which the equipment is being exposed. Although the principles of this standard also apply to transmission line insulation systems, the insulation levels may be different from those identified as standard insulation levels.

The guide to this standard, IEEE Std 1313.2, is an application guide with practical examples, intended to provide guidance in the determination of the withstand voltages and to suggest calculation methods and procedures.
NOTE--IEEE Std 1313.2 will be revised as IEEE Std C62.82.2 with its next revision.

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
   a) define applicable terms
   b) outline insulation coordination procedures
   c) identify standard insulation levels

   Old Purpose: The purpose of this standard is to
   a) define applicable terms
   b) outline insulation coordination procedures
   c) identify standard insulation levels

5.5 Need for the Project: To provide the information that the application guide needs.

5.6 Stakeholders for the Standard: Utilities, power engineers, consultants.

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?: Yes
   If Yes please explain: IEC 60071-1 (2006-01)

   and answer the following
   Sponsor Organization: International Electrotechnical Commission
   Project/Standard Number: IEC 60071-1
   Project/Standard Date: 01-Jan-2006
   Project/Standard Title: Insulation co-ordination - Part 1: Definitions, principles and rules

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 was modified to better reflect the fact that this
standard deals with definitions, principles and rules and that there is a guide for this standard that has applications and examples.
Since all the tables in this standard have ac three-phase voltages starting with 15KV, the Scope was changed to reflect this fact.