P1627

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Type of Project: Modify Existing Approved PAR
PAR Request Date: 25-Sep-2017
PAR Approval Date: 06-Dec-2017
PAR Expiration Date: 31-Dec-2020
Status: Modification to a Previously Approved PAR
Root PAR: P1627  Approved on: 30-Jun-2016

1.1 Project Number: P1627
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Transient Overvoltage Protection of DC Electrification Systems by Application of DC Surge Arresters
Changes in title: Standard for Transient Overvoltage Protection of DC Electrification Systems by Application of DC Surge Arresters

3.1 Working Group: Power Supply Working Group (VT/RTSC/1627_WG)
Contact Information for Working Group Chair
   Name: Paul White
   Email Address: pwhite@hntb.com
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Contact Information for Working Group Vice-Chair
   None

3.2 Sponsoring Society and Committee: IEEE Vehicular Technology Society/Rail Transportation Standards Committee (VT/RTSC)
Contact Information for Sponsor Chair
   Name: Thomas Kurihara
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   Name: Jon Adams
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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: 01/2017
4.3 Projected Completion Date for Submittal to RevCom
   Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 25
5.2 Scope: This standard covers practices for the application of surge arresters in overhead and third rail contact systems used in the electrification of heavy rail, light rail, streetcar and trolley bus systems.
Changes in scope: This standard covers practices for the application of surge arresters in overhead and third rail contact systems used in the electrification of heavy rail, light rail, streetcar and trolley bus systems.

5.3 Is the completion of this standard dependent upon the completion of another standard: No
5.4 Purpose: This standard provides uniform practices for protecting overhead and third rail contact systems used in direct current traction electrification with application of lightning arresters. Such a standard will allow the use of lightning protection to provide increased protection to passengers, maintenance personnel, and systemwide equipment, shall reduce maintenance and initial costs due to ineffective devices and can improve systemwide reliability and performance.

5.5 Need for the Project: Currently there are no published technical guidelines for proper selection of the MOV dc surge arrester. Application uses guess work without reviewing MOV surge arrester's published data as test data by the manufacturer. This standard will provide technical guidance for proper application of MOV surge arrester to protection dc rail transit system from transient overvoltage protection.

5.6 Stakeholders for the Standard: Rail Transit Systems and manufacturers of transient overvoltage protection devices
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:  Correction of word "Surge Arrestors" to "DC Surge Arresters"