P2445

Submitter Email: jbrasher@ovantellc.com
Type of Project: New IEEE Standard
PAR Request Date: 15-Sep-2017
PAR Approval Date: 06-Dec-2017
PAR Expiration Date: 31-Dec-2021
Status: PAR for a New IEEE Standard

1.1 Project Number: P2445
1.2 Type of Document: Recommended Practice
1.3 Life Cycle: Full Use

2.1 Title: Standard Practice for Inspection and Assessment of Below Grade and Groundline Corrosion on Weathering Steel on Electrical Transmission and Distribution Structures

Contact Information for Working Group Chair
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Contact Information for Working Group Vice-Chair
   None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Transmission and Distribution (PE/T&D)
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   Name: Daniel Sabin
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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: 04/2018
4.3 Projected Completion Date for Submittal to RevCom
   Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 12/2018

5.1 Approximate number of people expected to be actively involved in the development of this project: 50
5.2 Scope: Scope - This standard provides recommendations to:
   (1) help utilities identify structures that may be at a high risk for below-grade corrosion;
   (2) excavate and inspect the selected structures;
   (3) categorize the condition of structures based on corrosion degradation;
   (4) prioritize structures requiring additional inspection based on those findings; and
   (5) help identify next steps as required.
5.3 Is the completion of this standard dependent upon the completion of another standard: No
5.4 Purpose: The purpose is to provide a standard practice document for use by electric utilities to inspect and assess corrosion of weathering steel on in-service transmission, distribution, and substation structures.

   More specifically, the purpose of this document is to provide procedures for the use of common inspection practices and technology on weathering steel structures below grade. This includes:

   (a) assessment of historical data to categorize inspection priority;
   (b) below-grade inspection and assessment to categorize structures by level of condition;
   (c) site-specific environmental factors and soil conditions;
   (d) evaluation of existing repairs;
(e) assessment of foundation anchors and associated hardware; and
(f) detection of stray currents.

5.5 Need for the Project: There are currently no recommended practices available for inspection and assessment of below grade and groundline corrosion on weathering steel on electrical transmission and distribution structures. The transition zone at the groundline and below grade presents unique conditions that do not exist in purely atmospheric and/or below grade installations. This standard provides recommended practices for inspection and assessment in that unique environment, and will become a companion standard to TG 432's just-published below grade inspection standard and to 529's above grade standard (in progress).

5.6 Stakeholders for the Standard: Electric utilities and telecom owners/users

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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

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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?: Yes
Organization: NACE - National Association of Corrosion Engineers International
Technical Committee Name: Inspection and Assessment of Below Grade and Groundline Corrosion on Weathering Steel
Technical Committee Number: TG538
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8.1 Additional Explanatory Notes: