



Standard Practice

Maintenance Painting of Electrical Substation Apparatus Including Flow Coating of Transformer Radiators

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Foreword

Aspects of normal industrial maintenance painting such as surface preparation, coating selection, application methods, and safety considerations are subject to entirely different rules when placed within the confines of an energized, high-voltage substation. With utilities and industries attempting to obtain maximum use of their systems, transmission and distribution apparatus are being pushed to the limits of their designed service life. Properly engineered and implemented maintenance painting programs protect equipment from the detrimental effects of corrosion and help it perform to the fullest extent of its operating life.

Maintenance personnel for utilities and large industrial concerns who are responsible for maintenance painting of electrical equipment are primarily electrical engineers or have their background in electrical work. These individuals often have little, if any, practical knowledge of corrosion and its control. Consequently, many specifications that are poorly written, incomplete, and technically inaccurate are being used. This standard has been prepared to assist maintenance personnel responsible for painting electrical equipment.

A sample specification is included in Appendix A (Nonmandatory). This specification provides an example of one of the many types of specifications currently used by the industry. NACE neither endorses nor recommends the use of this sample specification. It is provided for information only.

This standard was originally prepared in 1997 by NACE Task Group (TG) T-6H-50, a component of former Unit Committee T-6H on Coating Materials for Atmospheric Service. It was reaffirmed in 2004 by Specific Technology Group (STG) 02 on Protective Coatings and Linings—Atmospheric. It was revised in 2012 by TG 457, "Review of NACE Standard RP0297-2004." TG 457 is administered by STG 02, "Coatings and Linings, Protective—Atmospheric." This standard is issued by NACE under the auspices of STG 02.

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