



# IEEE Standard for Pole-Mounted Equipment—Enclosure Integrity

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**IEEE Power & Energy Society**

Sponsored by the  
Transformers Committee

IEEE  
3 Park Avenue  
New York, NY 10016-5997, USA

20 September 2010

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# **IEEE Standard for Pole-Mounted Equipment—Enclosure Integrity**

Sponsor

**Transformers Committee**  
of the  
**IEEE Power & Energy Society**

Approved 17 June 2010

**IEEE-SA Standards Board**

**Abstract:** Conformance tests and requirements for the coating integrity of carbon steel pole-mounted enclosures containing apparatus energized in excess of 600 V, typically located out of reach of the general public, including, but not limited to, the following types of equipment enclosures: pole-mounted distribution transformers, pole-mounted switches, pole-mounted regulators, pole-mounted metering equipment, pole-mounted reclosers, and pole-mounted switchgear, are covered.

**Keywords:** coating integrity, enclosure integrity, pole-mounted equipment, switches, transformers

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## Introduction

This introduction is not part of IEEE Std C57.12.31-2010, IEEE Standard for Pole-Mounted Equipment—Enclosure Integrity.

The Accredited Standards Committee on Transformers, Regulators, and Reactors, C57, has for a number of years been developing and correlating standards on these products. The data used in this work have been gathered from many sources, including the standards of the Institute of Electrical and Electronics Engineers (IEEE) and the National Electrical Manufacturers Association (NEMA), reports of committees of the Edison Electric Institute (EEI), and others.

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This standard was originally prepared by the Joint C57/C37 Working Group on Enclosures, with Joseph Martin and then Robert C. Olen as chairmen. This group is now the Enclosure Integrity Working Group of the IEEE Transformers Committee.

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## 1. Overview

### 1.1 Scope

This standard covers conformance tests and requirements for the enclosure integrity of pole-mounted equipment containing apparatus energized in excess of 600 V, typically not accessible to the general public, such as but not limited to the following types of equipment:

- a) Pole-mounted distribution transformers
- b) Pole-mounted switches
- c) Pole-mounted regulators
- d) Pole-mounted metering equipment
- e) Pole-mounted reclosers/sectionalizers
- f) Pole-mounted capacitors

### 1.2 Purpose

The purpose of this standard is to describe the requirements for a comprehensive system for pole-mounted enclosures providing long service life with minimum maintenance.