

IEEE Guide to Installation of Foundations for Transmission Line Structures

IEEE Power & Energy Society

Sponsored by the
Transmission and Distribution Committee

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Abstract: Various approaches to good construction practices that could improve the installation of transmission line structure foundations are presented. Spread foundations, drilled shaft foundations, pile foundations, and anchors are treated. This guide is intended to be used as a reference source for those involved in the ownership, design, and construction of transmission structures.

Keywords: anchor, foundation, pile, transmission line structure

The Institute of Electrical and Electronics Engineers, Inc.
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Introduction

This introduction is not part of IEEE Std 977-2010, IEEE Guide to Installation of Foundations for Transmission Line Structures.

This guide is one of several documents, covering all aspects of overhead transmission line construction, that are being prepared by the Working Group on Construction of Overhead Lines of the Towers, Poles, and Conductors Subcommittee of the Transmission and Distribution Committee of the IEEE Power & Energy Society. This guide presents, in one document, the considerations necessary for the installation of foundations for transmission line structures. This guide is intended to be used as a reference source for parties involved in the ownership, design, and construction of transmission lines.

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Douglas Proctor, *Chair*

Bruce Freimark

Randy Hopkins
Robert Millies

Jerry Reding

The following members of the individual balloting committee voted on this guide. Balloters may have voted for approval, disapproval, or abstention.

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Thomas Barnes
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Chris Brooks
Gustavo Brunello
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Ted Olsen

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Thomas Prevost
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Catherine Berger
IEEE Standards Project Editor

Matthew J. Ceglia
IEEE Standards Program Manager, Technical Program Development

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1. Overview

1.1 Scope

This guide presents various approaches to good practice that could improve the installation of transmission line structure foundations. This guide covers only the construction aspects of the installation of the foundations.

1.2 Purpose

The purpose of this guide is to present, in one document, the construction considerations necessary for the installation of transmission line structure foundations.