

IEEE Guide to Installation of Foundations for Transmission Line Structures

IEEE Power & Energy Society

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IEEE Guide to Installation of Foundations for Transmission Line Structures

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**Transmission and Distribution Committee
of the
IEEE Power & Energy Society**

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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

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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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Contents

| | |
|---|----|
| 1. Overview | 1 |
| 1.1 Scope | 1 |
| 1.2 Purpose | 1 |
| 1.3 Application | 2 |
| 1.4 Legal disclaimer | 2 |
| 2. General considerations | 2 |
| 2.1 Introduction | 2 |
| 2.2 Structure functions and types | 2 |
| 2.3 Loading | 8 |
| 2.4 Foundation types and functions | 8 |
| 2.5 Geotechnical factors in construction | 9 |
| 2.6 Construction influences on foundation performance | 10 |
| 2.7 Applicable codes and standards | 11 |
| 3. Spread foundations | 13 |
| 3.1 Introduction | 13 |
| 3.2 Types of spread foundations | 13 |
| 3.3 Site plan outline | 15 |
| 3.4 Excavation | 16 |
| 3.5 Subgrade preparation | 17 |
| 3.6 Foundation assembly | 18 |
| 3.7 Setting foundations | 18 |
| 3.8 Backfill | 20 |
| 3.9 Site restoration | 21 |
| 3.10 Installation problems | 21 |
| 4. Drilled shaft foundations | 23 |
| 4.1 Introduction | 23 |
| 4.2 Construction—Dry-hole method | 24 |
| 4.3 Construction—Wet-hole method | 25 |
| 4.4 Excavation—Rock | 28 |
| 4.5 Direct embedment | 32 |
| 4.6 Noncircular shaft | 32 |
| 4.7 Hollow shaft | 32 |
| 4.8 Installation problems—Geotechnical | 34 |
| 4.9 Installation problems—Construction | 35 |
| 4.10 Inspection | 36 |
| 5. Pile foundations | 38 |
| 5.1 Introduction | 38 |
| 5.2 Pile types | 38 |
| 5.3 Orientation | 40 |
| 5.4 Installation | 40 |
| 5.5 Splicing | 53 |
| 5.6 Installation problems—Geotechnical | 53 |
| 5.7 Installation problems—Construction | 54 |
| 5.8 Inspection | 58 |
| 6. Anchors | 59 |
| 6.1 Introduction | 59 |

| | |
|--|----|
| 6.2 Excavated soil anchors | 60 |
| 6.3 Drilled anchors | 64 |
| Annex A (informative) Bibliography | 74 |

IEEE Guide to Installation of Foundations for Transmission Line Structures

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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.