



Standard for
Building and Service Entrance
Grounding and Bonding

NEIS



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1. Scope

This standard describes installation procedures for building and service entrance grounding as well as building interior bonding and grounding. It is intended to define what is meant by installing equipment in a “neat and workmanlike manner” as required by the National Electrical Code, Section 110.12, and in accordance with “accepted good practice” as required by National Electrical Safety Code, Rule 012.C.

1.1 Equipment and Systems Included

The following major subsystems of grounding and bonding are included in this publication:

- Electrical service grounding
- Building exterior grounds
- Building interior bonding
- Equipment grounding and bonding

1.2 Equipment and Systems Excluded

Lightning protection systems are specifically excluded from this publication. Interconnections between lightning protection systems and other grounding and bonding systems are necessary and described in 3.1.1 and 3.2.9.

1.3 Regulatory and Other Requirements

- a) All information in this publication is intended to conform to the National Electrical Code (ANSI/NFPA 70) and National Electrical Safety Code, (ANSI/IEEE C2). Installers should always follow the NEC, NESC, applicable state and local codes, manufacturer’s instructions, and contract documents when installing building grounding and bonding systems.
- b) Only qualified persons familiar with the installation of grounding and bonding systems should perform the work described in this publication.
- c) General requirements for installing electrical products and systems are described in NECA 1-2000, Standard Practices for Good Workmanship in Electrical Contracting (ANSI). Other *National Electrical Installation Standards* provide additional guidance for installing particular types of electrical products and systems. A complete list of *NEIS* is provided in Annex A.