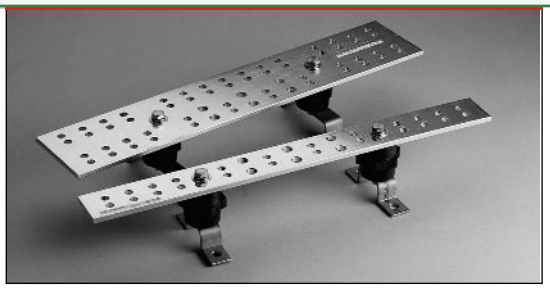
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Standard for

Building and Service Entrance Grounding and Bonding

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Table of Contents

Foreword v

1. Scope 1
1.1 Equipment and Systems Included 1
1.2 Equipment and Systems Excluded 1
1.3 Regulatory and Other Requirements 1

2. Grounding Systems Overview 2
2.1 Grounding Conductors 2
2.2 Equipment Grounding Conductor (EGC) 2
2.3 Grounding Electrode Conductor (GEC) 3
2.4 Grounding Electrode Conductor Protection 3
2.5 Repair or Splicing of Grounding Conductors 3

3. Service Entrance and Building Grounding 5
3.1 General Requirements 5
3.2 Metal Underground Water Piping 6
3.3 Metal Building Frame 6
3.4 Concrete-Encased Electrodes (Ufer Grounds) 7
3.5 Ground Ring 9
3.6 Made Electrodes 9
3.7 Ground Enhancement Materials and Chemical Rods 12

4. Building Exterior Grounding 15
4.1 Perimeter Grounding 15
4.2 Fence Grounding 17
4.3 Grounding Other Exterior Items 18
4.4 Single Grounding Electrode System 19

5. Building Interior Bonding and Grounding 20
5.1 Bonding 20
5.2 Equipment Bonding 26
5.3 Grounding Bus and Grounding Bars 28

6. Bonding and Grounding of Electronic Systems 30
6.1 Performance Bonding and Grounding 30
6.2 Signal Reference Ground 30
6.3 Ground Current Interferrence with Cathode Ray Tube (CRT) Based Equipment 31
6.4 Networked Workstation Equipment 31

7. Work Review 32
7.1 Final Review Before Energizing 32
7.2 Periodic Checks and Maintenance 32

Annex A: Reference Standards 33

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Foreword

National Electrical Installation Standards™ are intended to improve communication among specifiers, purchasers, and suppliers of electrical construction services. They define a minimum baseline of quality and workmanship for installing electrical products and systems. *NEIS*™ are intended to be referenced in contract documents for electrical construction projects. The following language is recommended:

> Grounding and bonding should be performed in accordance with NECA 331-2004, *Standard for Installing Building and Service Entrance Grounding.*

Use of *NEIS* is voluntary, and the National Electrical Contractors Association assumes no obligation or liability to users of this publication. Existence of a standard shall not preclude any member or nonmember of NECA from specifying or using alternate construction methods permitted by applicable regulations.

This publication is intended to comply with the edition of the National Electrical Code (NEC) in effect at the time of publication. Because they are quality standards, *NEIS* may in some instances go beyond the minimum requirements of the NEC. It is the responsibility of users of this publication to comply with state and local electrical codes when installing electrical products and systems.

Suggestions for revisions and improvements to this standard are welcome. They should be addressed to:

NECA Standards & Safety
3 Bethesda Metro Center, Suite 1100
Bethesda, MD 20814
(301) 215-4521 Telephone
(301) 215-4500 Fax
www.neca-neis.org
neis@necanet.org

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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.