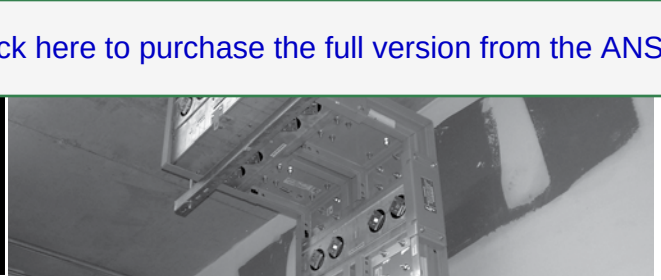

NECA 408-2015

Standard for

Installing and Maintaining Busways

AN AMERICAN NATIONAL STANDARD

Published by
National Electrical Contractors Association

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Revision History	
NECA 408-2002 originally published	04/2002
NECA 408-2009 revised	12/2009
NECA 408-2015 revised	02/2015

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(This foreword is not a part of the standard)

Foreword

National Electrical Installation Standards™ are designed 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:

> Busways should be installed and maintained in accordance with NECA 408-2015, *Standard for Installing and Maintaining Busways* (ANSI).

Use of *NEIS* is voluntary, and the National Electrical Contractors Association (NECA) assumes no obligation or liability to users of this publication. Existence of a standard shall not preclude any member or non-member 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®). Because they are quality standards, *NEIS* may in some instances go beyond the minimum safety requirements of the NEC. It is the responsibility of users of this publication to comply with state and local electrical codes and Federal and state OSHA safety regulations as well as follow manufacturers' installation instructions when installing electrical products and systems.

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

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To purchase *National Electrical Installation Standards,* contact the NECA Order Desk at (301) 215-4504 tel, (301) 215-4500 fax or *orderdesk@necanet.org*. *NEIS* can also be purchased in .pdf download format at *www.neca-neis.org/standards.*

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1. Scope

1.1 Applications and Products Included

This standard describes the installation and maintenance procedures for feeder and plug-in busways and accessories rated 600 Volts AC or less, and 100 Amperes or more, installed above ground. It also covers periodic routine maintenance procedures for busway, and special procedures used after adverse operating conditions such as a short-circuit, ground-fault, or immersion in water.

1.2 Applications and Products Excluded

This publication does not cover lighting busway, trolley busway, cable-bus, or medium-voltage or metal-enclosed busway.

1.3 Regulatory and Other Requirements

All information in this publication is intended to conform to the NEC (ANSI/NFPA 70). Installers shall follow the NEC, applicable state and local codes, manufacturer's instructions, and contract documents when installing stored energy systems.

Only qualified persons as defined in the NEC familiar with the construction and installation of busways shall perform the technical work described in this publication. Administrative functions such as receiving, handling and storing required in Section 4, and other tasks may be performed under the supervision of a qualified person. All work shall be performed in accordance with NFPA 70E, *Standard for Electrical Safety in the Workplace.*

General requirements for installing electrical products and systems are described in NECA 1, *Standard for Good Workmanship in Electrical Construction* (ANSI). Other *NEIS* provide additional guidance for installing particular types of electrical products and systems. A complete list of *NEIS* is provided in Annex A.

1.4 Mandatory Requirements, Permissive Requirements, Quality and Performance Recommendations, Explanatory Material, and Informative Annexes

Mandatory Requirements. Mandatory requirements in manufacturer's instructions, or of Codes or other mandatory Standards that may or not be adopted into law, are those that identify actions that are specifically required or prohibited and are characterized by the use of the terms *must* or *must not, shall* or *shall not,* or by the use of positive phrasing of mandatory requirements. Examples of mandatory requirements may equally take the form of, "equipment must be protected . . .," "equipment shall be protected . . .," or "protect equipment . . .," with the latter interpreted (understood) as "(it is necessary to) protect equipment . . ."

Permissive Requirements. Permissive requirements of manufacturer's instructions, or of Codes or other mandatory Standards that may or not be adopted into law, are those that identify actions that that are allowed but not required, are normally used to describe options or alternative means and methods, and are characterized in this Standard by the use of the terms *may* or *may not, or are permitted* or *are not required.*

Quality and Performance Recommendations. Quality and performance recommendations identity actions that are recommended or not recommended to improve the overall quality or performance of the installation and are characterized by the use of the term *should* or *should not.*