

# ***Errata to*** **2017 Edition** **National Electrical Safety Code®**

*Correction Sheet #1*  
**Issued 13 September 2016**

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The following corrections should be made:

## **Foreword**

**Page iii:** In the 2017 Edition subsection of the Foreword, change the first sentence of the seventh paragraph as follows:

Guy insulator Rule 215C2 to Rule 215C8 of the 2012 edition were rewritten and reorganized to make them easier to understand and apply with the voltage transfer rules associated with guy insulators being removed.

## **NESC Main Committee Membership**

**Page viii:** In the second column of the NESC Main Committee list, change the header to “Principal.”

## **NESC Subcommittee 1**

**Page ix:** In the first column of the NESC Subcommittee 1 list, change the header to “Principal.”

**Page ix:** At the bottom of the page, change the names of the following organizations:

NCTA—National Cable & Telecommunications Association  
SCTE—Society of Cable Telecommunications Engineers

## **NESC Subcommittee 2**

**Page x:** In the first column of the NESC Subcommittee 2 list, change the header to “Principal.”

### NESC Subcommittee 3

**Page x:** In the first column of the NESC Subcommittee 3 list, change the header to “Principal.”

### NESC Subcommittee 4

**Page xi:** In the first column of the NESC Subcommittee 4 list, change the header to “Principal.”

**Page xi:** In the NESC Subcommittee 4 list, insert James R. Tomaseski, principal for NECA, Steve Mace, alternative for NCTA, and before Ernest H. Neubauer, principal for NRECA, as follows:

<i>Principal</i>	<i>Organization represented</i>	<i>Employer</i>
James R. Tomaseski	NECA	PAR Electrical Contractors, Inc.

### NESC Subcommittee 5

**Page xii:** In the first column of the NESC Subcommittee 5 list, change the header to “Principal.”

**Page xii:** In the NESC Subcommittee 5 list, change the employer listed for Michael Garrels as follows:

<i>Principal</i>	<i>Organization represented</i>	<i>Employer</i>
Michael Garrels	IEEE/PES	Xcel Energy

### NESC Subcommittee 7

**Page xiii:** In the first column of the NESC Subcommittee 7 list, change the header to “Principal.”

**Page xiii:** In the NESC Subcommittee 7 list, change the employers listed for James R. Tomaseski and Robert Emgarten as follows:

<i>Principal</i>	<i>Organization represented</i>	<i>Employer</i>
James R. Tomaseski	NECA	PAR Electrical Contractors, Inc.
Robert Emgarten	NRECA	Iowa Lakes Electric Cooperative

### NESC Subcommittee 8

**Page xiv:** In the first column of the NESC Subcommittee 8 list, change the header to “Principal.”

**Page xiv:** In the NESC Subcommittee 8 list, move James R. Tomaseski to the Principal column as follows:

<i>Principal</i>	<i>Organization represented</i>	<i>Employer</i>
James R. Tomaseski	NECA	PAR Electrical Contractors, Inc.

**Page xiv:** In the NESC Subcommittee 8 list, change the employer listed for Troy Little and F. M. Brooks as follows:

<i>Principal</i>	<i>Alternate</i>	<i>Organization represented</i>	<i>Employer</i>
Troy Little		NSPE	Brooks, Jackson & Little, Inc.
	F. M. Brooks	NSPE	Brooks, Jackson & Little, Inc.

## Section 1. Introduction

### 017. Units of measure

**Page 6:** In Rule 017A NOTE 1, change the bibliographic reference number as follows:

IEEE/ASTM SI 10™-2010 [B27]

### Section 3. References

**Page 22:** In Section 3 (References), insert the locations of citation as follows for IEEE Std 516-2009:

IEEE Std 516<sup>TM</sup>-2009, IEEE Guide for Maintenance Methods on Energized Power-Lines. [Rules 441A4 NOTE 2, 446B1, and 446D3 NOTE, and Table 441-5, Footnote 4]

## Section 9. Grounding Methods

### 092. Point of connection of grounding conductor

**Page 26:** In Rule 092E NOTE, change the bibliographic reference number as follows:

IEEE Std 80™-2000 [B28]

### 096. Ground resistance requirements

**Page 34:** In Rule 096B NOTE, change the bibliographic reference number as follows:

IEEE Std 80-2000 [B28]

## **Part 1.**

# **Safety Rules for the Installation and Maintenance of Electric Supply Stations and Equipment**

## **Section 11.**

### **Protective arrangements in electric supply stations**

#### **110. General requirements**

**Page 40:** In the second sentence of the second paragraph of Rule 110A1, delete the strikethrough letter d in “fenced” as follows:

For fenced or walled electric supply stations without roofs, a safety sign shall be displayed on each exterior side of the fence or wall enclosure.

## **Section 12.**

### **Installation and maintenance of equipment**

#### **123. Protective grounding**

**Page 48:** In Rule 123B, change the bibliographic reference number as follows:

IEEE Std 80-2000 [B28]

#### **124. Guarding live parts**

**Page 48:** In Rule 124A1 NOTE, change the bibliographic reference number as follows:

IEEE Std C37.100.1™-2007 [B41]

#### **127. Classified locations**

**Page 63:** In Rule 127L NOTE, change the bibliographic reference number as follows:

NFPA 497M-1997 [B46]

## **Section 16.**

### **Conductors**

#### **162. Mechanical protection and support**

**Page 70:** In Rule 162A NOTE, change the bibliographic reference number as follows:

IEEE Std 605™-2008 [B31]

## **Section 19. Surge arresters**

### **190. General requirements**

**Page 76:** In Rule 190 NOTE, change the bibliographic reference numbers as follows:

IEEE Std C62.1<sup>TM</sup>-1989 [B42]  
IEEE Std C62.11<sup>TM</sup>-1999 [B43]

## **Part 2.**

# **Safety Rules for the Installation and Maintenance of Overhead Electric Supply and Communications Lines**

## **Section 21.**

### **General requirements**

#### **212. Induced voltages**

**Page 78:** In Rule 212 NOTE, change the bibliographic reference numbers as follows:

IEEE Std 776<sup>TM</sup>-1992 [B33]  
IEEE Std 1137<sup>TM</sup>-1991 [B35]

## **Section 22.**

### **Relations between various classes of lines and equipment**

#### **223. Communications protective requirements**

**Page 87:** In Rule 223A NOTE, change the bibliographic reference numbers as follows:

IEEE Std 487<sup>TM</sup>-2007 [B29]  
IEEE Std 1590<sup>TM</sup>-2003 [B39]

## **Section 23.**

### **Clearances**

#### **232. Vertical clearances of wires, conductors, cables, and equipment aboveground, roadway, rail, or water surfaces**

**Page 97:** In Rule 232B1, change the reference from Table 230-1 to Table 232-1.

**Page 97:** In Rule 232B2, change the reference in the last sentence from Table 230-1 to Table 232-1.

#### **234. Clearance of wires, conductors, cables, and equipment from buildings, bridges, rail cars, swimming pools, and other installations**

**Page 130:** In Footnote 1 of the informal table below Rule 234D1b, add a character space as follows:

Does not include neutral conductors meeting Rule 230E1.



## **234. Clearance of wires, conductors, cables, and equipment from buildings, bridges, rail cars, swimming pools, and other installations (*continued*)**

**Page 141:** In the sixth column of the header row (“Unguarded rigid live parts, over 750 V to 22 kV; . . .”) of Table 234-1(m), change Footnote 14 to Footnote 16.

**Page 142:** In the sixth column of the header row (“Unguarded rigid live parts, over 750 V to 22 kV; . . .”) of the continued Table 234-1(m), change Footnote 14 to Footnote 16.

**Page 143:** In the sixth column of the header row (“Unguarded rigid live parts, over 750 V to 22 kV; . . .”) of the continued Table 234-1(m), change Footnote 14 to Footnote 16.

**Page 145:** In the fourth column of the header row (“Unguarded rigid live parts, 0 to 750 V; . . .”) of Table 234-1(ft), change Footnote 14 to Footnote 16.

**Page 146:** In the fourth column of the header row (“Unguarded rigid live parts, 0 to 750 V; . . .”) of the continued Table 234-1(ft), change Footnote 14 to Footnote 16.

**Page 147:** In the fourth column of the header row (“Unguarded rigid live parts, 0 to 750 V; . . .”) of the continued Table 234-1(ft), change Footnote 14 to Footnote 16.

**Page 156:** Change the reference below the Table 234-6(m) caption as follows:

**Table 234-6—Clearance over roof not readily accessible<sup>①</sup>**  
[See Rule 234C3d(1).]

**Page 157:** Change the reference below the Table 234-6(ft) caption as follows:

**Table 234-6—Clearance over roof not readily accessible<sup>①</sup>**  
[See Rule 234C3d(1).]

## **235. Clearance for wires, conductors, or cables carried on the same supporting structure**

**Page 160:** In Rule 235C1, delete “~~and~~” as follows:

Basic clearance for line wires, conductors, cables, and service drops of same or different circuits

## **Section 24. Grades of construction**

### **242. Grades of construction for conductors**

**Page 201:** In Footnote 3 of the continued Table 242-1, delete “~~not~~” as follows:

Grade C construction may be used if the supply circuits will be promptly de-energized, both initially and following subsequent breaker operations, in the event of a contact with lower supply conductors or other grounded objects.

### **243. Grades of construction for line supports**

**Page 202:** In Rule 243A3, change the reference from Rule 241C3b to Rule 241C4b.

**Page 202:** In Rule 243B3, change the reference from Rule 241C3b to Rule 241C4b.

**Page 202:** In Rule 243C3, change the reference from Rule 241C3b to Rule 241C4b.

## **Section 26. Strength requirements**

### **260. General (see also Section 20)**

**Page 226:** In Rule 260A2, change the reference from Rule 13A2 to Rule 013A2.

**Page 226:** In Rule 260B1 NOTE 2, change the bibliographic reference numbers as follows:

PCI Design Handbook: Precast and Prestressed Concrete [B51]  
IEEE Std 751™-1991, IEEE Trial-Use Design Guide for Wood Transmission Structures [B32]  
The Aluminum Association, Aluminum Design Manual [B52]

### **261. Grades B and C construction**

**Page 234:** In Rule 261N, change the bibliographic reference number as follows:

IEEE Std 1307™-2004 [B37]

## **Section 27. Line insulation**

### **279. Guy and span insulators**

**Page 244:** In the NOTE of Rule 279A2a, change the reference from Rule 215C7 to Rule 215C4.

**Part 3.**  
**Safety Rules for the Installation and Maintenance of**  
**Underground Electric Supply and Communication Lines**

**Section 35.**  
**Direct-buried cable and cable in duct not part of a conduit system**

**355. Additional rules for duct not part of a conduit system**

**Page 270:** In Rule 355D, delete “a” from the first sentence as follows:

The portion of duct installed through an exterior building wall, floor, or roof shall have seals inside the duct and external seals on the outside surface of the duct at the point of entry into the building intended to limit the likelihood of the entrance of gas into the building.

## **Part 4.**

### **Work Rules for the Operation of Electric Supply and Communications Lines and Equipment**

#### **Section 41.**

#### **Supply and communications systems—Rules for employers**

##### **410. General requirements**

**Page 278:** In Rule 410A3, third paragraph, change the bibliographic reference number as follows:

Neal, Bingham, and Doughty [B45]

**Page 278:** In Rule 410A3 EXCEPTION 4, change the text as follows:

Arc-rated equipment is not necessary for the employee's head or face when the employee is wearing head protection meeting OSHA 29 CFR 1910.135 [B48] if the estimated incident energy is less than 9 cal/cm<sup>2</sup> for exposures involving single phase arcs in open air less than or 5 cal/cm<sup>2</sup> for other exposures. Arc-rated equipment is necessary for the protection of the employee's head and face and may consist of head protection meeting OSHA 29 CFR 1910.135 and a face shield with a minimum arc rating of 8 cal/cm<sup>2</sup> if the estimated incident-energy exposure is greater than 9 cal/cm<sup>2</sup> and less than 13 cal/cm<sup>2</sup> for exposures involving single-phase arcs in open air or greater than 5 cal/cm<sup>2</sup> and less than 9 cal/cm<sup>2</sup> for other exposures. For exposures involving single phase arcs in open air, the arc rating for the employee's head and face protection may be 4 cal/cm<sup>2</sup> less than the estimated incident energy.

**Page 279:** In Rule 410A3 EXCEPTION 5, change the text as follows:

For dc systems with voltages from 50 V to 250 V and 8000 A maximum fault current, in lieu of performing an arc hazard analysis, clothing with a minimum effective arc rating of 5 cal/cm<sup>2</sup> shall be used.

**Page 279:** In Rule 410A3 NOTE 1, change the bibliographic reference number as follows:

Doan, "Arc Flash Calculations for Exposures to DC Systems" [B24]

**Page 279:** In Rule 410A6 NOTE, change the bibliographic reference numbers as follows:

OSHA 29 CFR 1910.97, Subpart G [B47]  
OSHA 29 CFR 1910.268, Subpart R [B49]  
FCC Bulletin No. 65 [B26]  
IEEE Std C95.1-2005 [B44]

**Pages 280 and 281:** In the footnotes to Table 410-1, change the bibliographic reference numbers in Footnotes 6, 9, 11, 12, and 13 as follows:

Eblen and Short [B25]

## **Section 42. General rules for employees**

### **423. Underground line operating procedures**

**Page 291:** In Rule 423D2 NOTE and Rule 423D3 NOTE, change the bibliographic reference numbers as follows:

IEEE Std 1333™-1994 [B38]

## **Section 44. Additional rules for supply employees**

### **441. Energized conductors or parts**

**Page 296:** In Rule 441A1d NOTE 2, change the bibliographic reference number as follows:

OSHA 29 CFR 1910.269 Appendix B [B50]

**Page 296:** In NOTE 3 of Rule 441A1d, add the bibliographic reference number after the citation of ANSI C84.1-1995 as follows:

*NOTE 3:* The voltage ranges are contained in ANSI C84.1-1995, Table 1 [B7].

**Page 297:** In Rule 441A4 NOTE 2, change the bibliographic reference number as follows:

OSHA 29 CFR 1910.269 Appendix B [B50]

**Page 301:** In Table 441-1, change the bibliographic reference number in Footnote 7 as follows:

OSHA 29 CFR 1910.269 Appendix B [B50]

### **444. De-energizing equipment or lines to protect employees**

**Page 314:** In Table 444-1, change the bibliographic reference number in Footnote 3 as follows:

IEEE Std C37.30.1™-2011 [B40]

### **445. Protective grounds**

**Page 315:** In Rule 445B3 NOTE 2, change the bibliographic reference number as follows:

IEEE Std 1048™-1990 [B34]

IEEE Std 1246™-2002 [B36]

## Appendix A

### Uniform system of clearances adopted in the 1990 edition

**Page 322:** In the first item of the unordered list, change the reference from Rule 232C2a to Rule 233C2a as follows:

- Voltages in the tables are limited to 0 V to 750 V and over 750 V to 22 kV, normal secondary and primary distribution ranges respectively. Voltages in the 22 kV to 50 kV range are covered by a 10 mm per kV (0.4 in per kV) adder; see Rules 232C1a, 233C2a, and 234G1. Exceptions at 22 kV to 50 kV are noted where they apply.

## Appendix D

### Determining maximum anticipated per-unit overvoltage factor (T) at the worksite

**Page 341:** In the fourth paragraph of item 1a, change the bibliographic reference number as follows:

IEEE Std 519<sup>TM</sup>-1992 [B30]

## Appendix E

### Bibliography

**Page 342:** In Appendix E (Bibliography), insert Footnote 2 and Footnote 10 to the locations of citation for [B1].<sup>1</sup>

**Page 342:** In Appendix E (Bibliography), change the year from 2011 to 1995 in [B7].

**Page 342:** In Appendix E (Bibliography), insert Rule 260B1 NOTE 2 as the location of citation for [B12].

**Page 343:** In Appendix E (Bibliography), delete references [B24] to [B27].

**Page 343:** In Appendix E (Bibliography), renumber [B28] as [B24] and change the location of citation from Rule 410A3a EXCEPTION to Rule 410A3 NOTE 1.

**Page 343:** In Appendix E (Bibliography), renumber [B29] as [B25] and insert Footnote 6 to the locations of citation.

**Page 343:** In Appendix E (Bibliography), renumber [B30] as [B26] and change the location of citation from Rule 420Q NOTE to Rule 410A6 NOTE.

**Page 343:** In Appendix E (Bibliography), renumber [B31] and [B32] as [B27] and [B28].

**Page 343:** In Appendix E (Bibliography), delete [B33].

**Page 343:** In Appendix E (Bibliography), renumber [B34] as [B29].

**Page 344:** In Appendix E (Bibliography), renumber [B35] and [B36] as [B30] and [B31].

**Page 344:** In Appendix E (Bibliography), delete [B37].

**Page 344:** In Appendix E (Bibliography), renumber [B38] and [B39] as [B32] and [B33].

**Page 344:** In Appendix E (Bibliography), delete [B40] to [B46].

**Page 344:** In Appendix E (Bibliography), renumber [B47] as [B34].

**Page 344:** In Appendix E (Bibliography), delete [B48] to [B50].

**Page 344:** In Appendix E (Bibliography), renumber [B51] as [B35].

**Page 344:** In Appendix E (Bibliography), renumber [B52] as [B36] and delete Rule 223A4 from the locations of citation.

**Page 344:** In Appendix E (Bibliography), renumber [B53] and [B54] as [B37] and [B38].

**Page 345:** In Appendix E (Bibliography), renumber [B55] as [B39] and insert Rule 223A NOTE as the location of citation.

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<sup>1</sup> See page 18 of this errata sheet for the complete updated bibliography.



**Page 345:** In Appendix E (Bibliography), renumber [B56]–[B59] as [B40]–[B43].

**Page 345:** In Appendix E (Bibliography), renumber [B60] as [B44] and change the location of citation from Rule 420Q NOTE to Rule 410A6 NOTE.

**Page 345:** In Appendix E (Bibliography), delete [B61].

**Page 345:** In Appendix E (Bibliography), renumber [B62] as [B45] and change the location of citation from Rule 410A3 NOTE to Rule 410A3.

**Page 345:** In Appendix E (Bibliography), delete [B63].

**Page 345:** In Appendix E (Bibliography), renumber [B64] as [B46].

**Page 345:** In Appendix E (Bibliography), renumber [B65] as [B47] and change the location of citation from Rule 420Q NOTE to Rule 410A6 NOTE.

**Page 345:** In Appendix E (Bibliography), renumber [B66] as [B48].

**Page 345:** In Appendix E (Bibliography), renumber [B67] as [B49] and change the location of citation from Rule 420Q NOTE to Rule 410A6 NOTE.

**Page 345:** In Appendix E (Bibliography), renumber [B68] as [B50] and change the locations of citation to Table 431-1 Footnote 4, Rules 441A1d NOTE 2 and 441A4 NOTE 2, and Table 441-1 Footnote 7.

**Page 345:** In Appendix E (Bibliography), delete [B69] and [B70].

**Page 346:** In Appendix E (Bibliography), renumber [B71] and [B72] as [B51] and [B52].

The bibliography shown below incorporates the changes on pages 16 and 17 of this errata dated 2 September 2016.

## Appendix E

### Bibliography

Bibliographical references are resources that provide additional or helpful material but do not need to be understood or used to implement this standard. Reference to these resources is made for informational use only.

[B1] *208-V Arc Flash Testing: Network Protectors and Meters*. EPRI, Palo Alto, CA: 2010. [Table 410-1 Footnotes 2, 3, and 10]

[B2] *480-V Distribution Arc Flash Updates*, Electric Power Research Institute (EPRI), Palo Alto, CA: 2011. [Table 410-1 Footnote 4]

[B3] ACI-318, Building Code Requirements for Structural Concrete (for reinforced concrete designs). [Rule 260B1 NOTE 2]

[B4] ACI-318, 1983, Building Code Requirements for Structural Concrete (for anchor bolt bond strength and design). [Rule 260B1 NOTE 2]

[B5] AISI S100, Specification for the Design of Cold-Formed Steel Structural Members. [Rule 260B1 NOTE 2]

[B6] ANSI C29.11-2012, American National Standard for Composite Insulators—Test Methods. [Rule 279A1b]

[B7] ANSI C84.1-1995, American National Standard Safety Requirements for Electric Power Systems and Equipment—Voltage Ratings (60 Hertz). [Rule 441A1d NOTE 3]

[B8] ANSI ASC A14.1-2007, American National Standard Safety Requirements for Portable Wood Ladders. [Rule 323F NOTE]

[B9] ANSI ASC A14.2-2007, American National Standard Safety Requirements for Portable Metal Ladders. [Rule 323F NOTE]

[B10] ANSI ASC A14.3-2008, American National Standard Safety Requirements for Fixed Ladders. [Rule 323F NOTE]

[B11] ANSI ASC A14.5-2007, American National Standard Safety Requirements for Portable Reinforced Plastic Ladders. [Rule 323F NOTE]

[B12] ANSI/ASCE-10, Design of Latticed Steel Transmission Structures. [Rule 260B1 NOTE 2]

[B13] ANSI/ASSE A1264.1-2007, American National Standard Safety Requirements for Workplace Walking/Working Surfaces and Their Access; Workplace, Floor, Wall and Roof Openings; Stairs and Guardrails Systems. [Rule 112D NOTE]

[B14] API RP 500, Recommended Practice for Classification of Locations for Electrical Installations at Petroleum Facilities, 7 January 1998. [Rule 127L NOTE]

[B15] ASCE-48, Design of Steel Transmission Pole Structures. [Rule 260B1 NOTE 2]

[B16] ASCE-91, Design of Guyed Electrical Transmission Structure. [Rule 260B1 NOTE 2]

[B17] ASCE-104, Recommended Practice For Fiber-Reinforced Polymer Products For Overhead Utility Line Structures. [Rule 260B1 NOTE 2]

[B18] ASCE-111, Reliability-Based Design of Utility Pole Structures. [Rule 260B1 NOTE 1]

[B19] ASCE-113, Substation Structure Design Guide. [Rule 260B1 NOTE 2]

[B20] ASCE-123, Prestressed Concrete Transmission Pole Structures Recommended Practice for Design and Installation. [Rule 260B1 NOTE 2]

[B21] ASTM D 3175-11, Standard Test Method for Volatile Matter in the Analysis Sample of Coal and Coke. [Rule 127A4]

[B22] ASTM F 855-04, Standard Specification for Temporary Grounding Systems to Be Used on De-energized Electric Power Lines and Equipment. [Rule 445A1 NOTE]

[B23] ASTM F 887-04, Standard Specifications for Personal Climbing Equipment (later versions applicable). [Rule 420K1b NOTE 1]

[B24] Doan, D. R., "Arc Flash Calculations for Exposures to DC Systems," *IEEE Transactions on Industry Applications*, vol: 46, issue: 6, pp. 2299-2302, August 2010. [Rule 410A3a NOTE 1]

[B25] Eblen, M. L., and Short, T. A., *Arc Flash Testing of Typical 480V Utility Equipment*, IEEE Industry Applications Society-Electrical Safety Workshop Paper No. ESW2010-05. [Table 410-1, Footnotes 6, 9, 11, 12, and 13]

[B26] FCC Bulletin No. 65 (August 1997), Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. Available at [http://www.fcc.gov/Bureaus/Engineering\\_Technology/Documents/bulletins/oet65/oet65.pdf](http://www.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65.pdf). [Rule 410A6 NOTE]

[B27] IEEE/ASTM SI 10™-2010, American National Standard for Use of the International System of Units (SI): The Modern Metric System. [Rule 017A NOTE 1]

[B28] IEEE Std 80™-2000, IEEE Guide for Safety in AC Substation Grounding. [Rules 092E NOTE, 096B NOTE, and 123B NOTE]

[B29] IEEE Std 487™-2007, IEEE Recommended Practice for the Protection of Wire line Communication Facilities Serving Electric Supply Locations. [Rule 223A NOTE]

[B30] IEEE Std 519™-1992, IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems. [Appendix D]

[B31] IEEE Std 605™-2008, IEEE Guide for Bus Design in Air Insulated Substations. [Rule 162A NOTE]

[B32] IEEE Std 751™-1991, IEEE Trial-Use Design Guide for Wood Transmission Structures. [Rule 260B1 NOTE 2]

[B33] IEEE Std 776™-1992, IEEE Recommended Practice for Inductive Coordination of Electric Supply and Communication Lines. [Rule 212 NOTE]

[B34] IEEE Std 1048™-1990, IEEE Guide for Protective Grounding of Power Lines. [Rule 445B3 NOTE 2]

[B35] IEEE Std 1137™-1991, IEEE Guide for the Implementation of Inductive Coordination Mitigation Techniques and Applications. [Rule 212 NOTE]

[B36] IEEE Std 1246™-2002, IEEE Guide for Temporary Protective Grounding Systems Used in Substations. [Rule 445B3 NOTE 2]

[B37] IEEE Std 1307™-2004, IEEE Standard for Fall Protection for Utility Work. [Rule 261N NOTE]

[B38] IEEE Std 1333™-1994, IEEE Guide for Installation of Cable Using the Guided Boring Method. [Rule 423D2, 423D3 NOTE]

[B39] IEEE Std 1590™-2003, IEEE Recommended Practice for the Electric Protection of Optical Fiber Communication Facilities Serving, or Connected to, Electrical Supply Locations. [Rule 223A NOTE]

[B40] IEEE Std C37.30.1™-2011, IEEE Standard Requirements for AC High-Voltage Air Switches Rated Above 1000 V. [Table 444-1 Footnote 3]

[B41] IEEE Std C37.100.1™-2007, IEEE Standard of Common Requirements for High Voltage Power Switchgear Rated Above 1000 V. [Rule 124A1 NOTE]

[B42] IEEE Std C62.1™-1989 (R1994), IEEE Standard for Gapped Silicon-Carbide Surge Arresters for AC Power Circuits. [Rule 190 NOTE]

[B43] IEEE Std C62.11™-1999, IEEE Standard for Metal-Oxide Surge Arresters for Alternating Current Power Circuits. [Rule 190 NOTE]

[B44] IEEE Std C95.1™-2005, IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. [Rule 410A6 NOTE]

[B45] Neal, T. E., Bingham, A. H., and Doughty, R. L., “Protective clothing guidelines for electric arc exposure,” *IEEE Transactions on Industry Applications*, vol. 33-4, pp. 1041–1054, July/Aug. 1997. [Rule 410A3]

[B46] NFPA 497M-1997, Classification of Gases, Vapors, and Dusts for Electrical Equipment in Hazardous (Classified) Locations. [Rule 127L NOTE]

[B47] OSHA 29 CFR 1910.97, Subpart G—Nonionizing radiation. [Rule 410A6 NOTE]

[B48] OSHA 29 CFR 1910.135, Personal Protective Equipment—Head Protection. [Rule 410A3b EXCEPTION 4]

[B49] OSHA 29 CFR 1910.268, Subpart R—Telecommunications. [Rule 410A6 NOTE]

[B50] OSHA 29 CFR 1910.269, Appendix B—Working on Exposed Energized Parts [Table 431-1 Footnote 4, Rules 441A1d NOTE 2 and 441A4 NOTE 2, and Table 441-1 Footnote 7]

[B51] PCI Design Handbook: Precast and Prestressed Concrete. [Rule 260B1 NOTE 2]

[B52] The Aluminum Association, Aluminum Design Manual. [Rule 260B1 NOTE 2]

NOTE 1: ANSI publications are available from the American National Standards Institute (<http://www.ansi.org/>).

NOTE 2: API publications are available from the American Petroleum Institute (<http://www.api.org/>).

NOTE 3: ASTM publications are available from the American Society for Testing and Materials (<http://www.astm.org/>).

NOTE 4: IEEE publications are available from the Institute of Electrical and Electronics Engineers (<http://standards.ieee.org>).

NOTE 5: The IEEE standards or products referred to in this appendix are trademarks of the Institute of Electrical and Electronics Engineers, Inc.

NOTE 6: NFPA publications are available from the National Fire Protection Association (<http://www.nfpa.org/>).

NOTE 7: OSHA publications available from the Occupational Safety and Health Administration (<http://www.osha.gov>).