

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

*Correction Sheet #2*  
**Issued 31 March 2017**

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The following corrections should be made:

## **Part 1.** **Safety Rules for Electric Supply Stations**

### **Section 11.** **Protective arrangements in electric supply stations**

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

*Change the last sentence of Rule 110A1 as follows:*

- A. Enclosure of equipment
  - 1. Types of enclosures

No fence or similar structure shall be allowed to be connected to or located within ~~2.8~~ 1.8 m (6.0 ft) of an electric supply station fence without the concurrence of the substation owner.

## **Part 2.**

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

## **Section 23.**

### **Clearances**

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

*Change the cross reference in the last sentence of NOTE 2 of Rule 234E1 as follows:*

- E. Clearance of wires, conductors, cables, or unguarded rigid live parts installed over or near swimming areas with no wind displacement

- 1. Swimming pools

For portable wading pools, see Table ~~234-1~~ 232-1, row 5.

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

*Change the cross reference in Rule 235D as follows:*

- D. Diagonal clearance between line wires, conductors, and cables located at different levels on the same supporting structure.

No wire, conductor, or cable may be closer to any other wire, conductor, or cable than defined by the dashed line in ~~Table~~ Figure 235-1, where V and H are determined in accordance with other parts of Rule 235.

#### **236. Climbing space**

*Change the cross reference in the first sentence of Rule 236E as follows:*

- E. Climbing space between conductors

Climbing space between conductors shall be not less than the horizontal clearances specified in Table ~~235-6~~ 236-1.

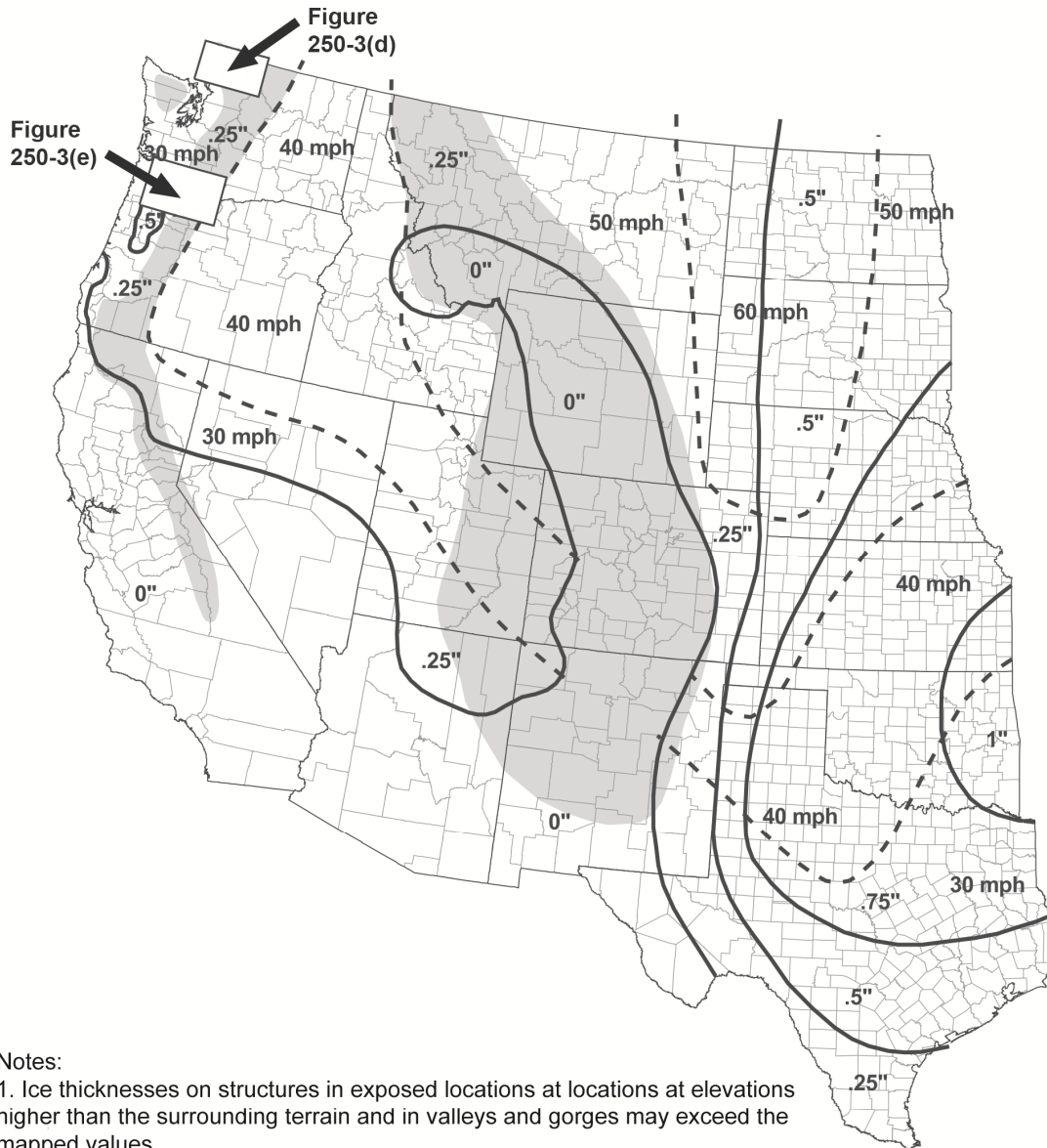
*Change the cross reference in Rule 236I as follows:*

- I. Climbing space near ridge-pin conductors

The climbing space specified in Table ~~235-6~~ 236-1 shall be provided above the top support arm to the ridge-pin conductor but need not be carried past it.

## Section 25. Loadings for Grades B and C

Replace Figure 250-3(a) through Figure 250-3(f) as follows:



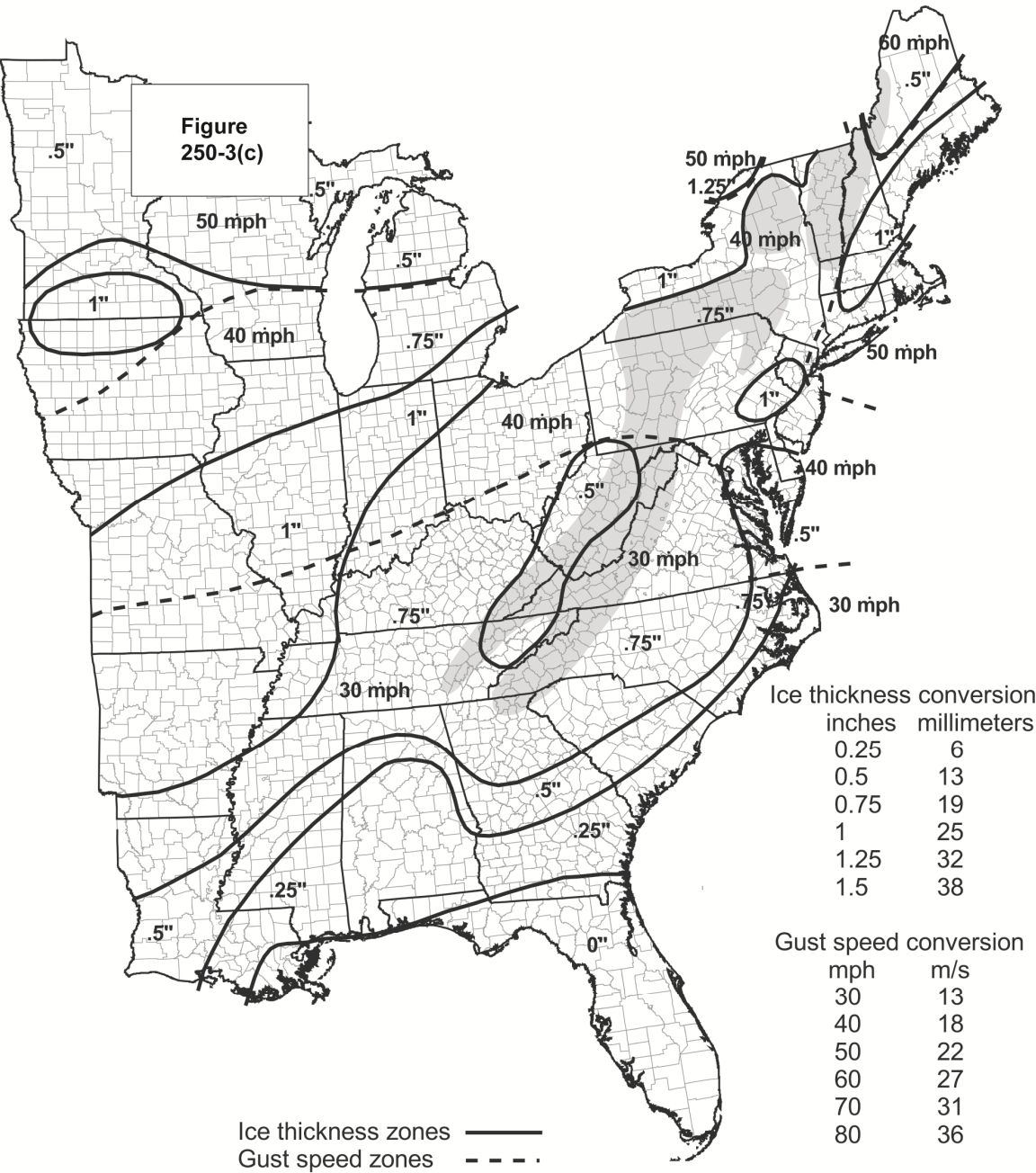
**Notes:**

1. Ice thicknesses on structures in exposed locations at locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.
2. In the mountain west, indicated by the shading, ice thicknesses may exceed the mapped values in the foothills and passes. However, at elevations above 5,000 ft, freezing rain is unlikely.
3. In the Appalachian Mountains, indicated by the shading, ice thicknesses may vary significantly over short distances.

**Equivalent Radial Ice Thicknesses Due to Freezing Rain with Concurrent 3-Seconds Gust Speeds, for a 50-Year Mean Recurrence Interval.**

**Figure 250-3(a)—Uniform ice thickness with concurrent wind**

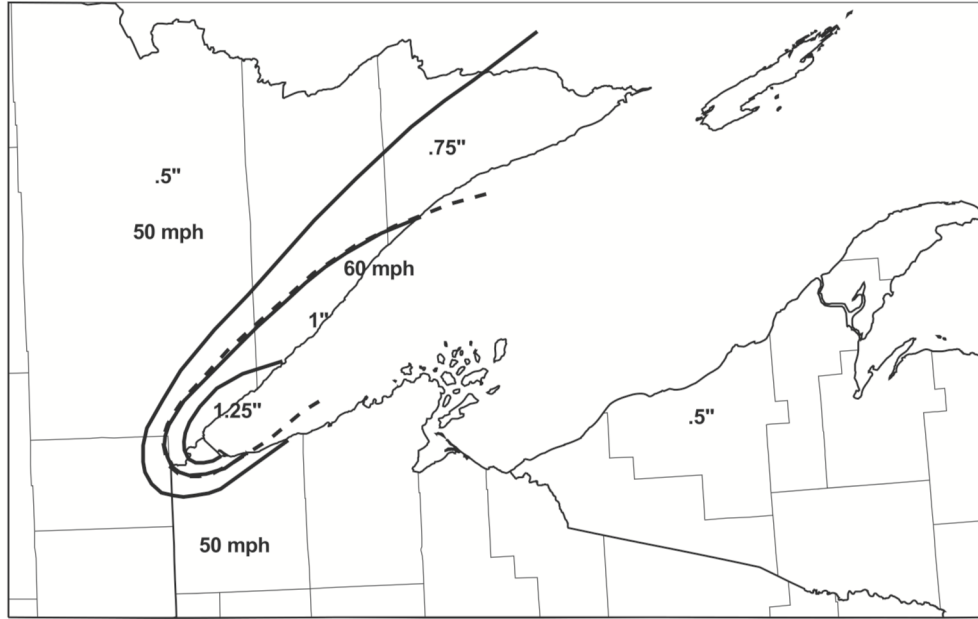
*NOTE:* Figure 250-3(a) reprinted with permission from ASCE, 1801 Alexander Bell Dr., Reston, VA 20191, from ASCE 7-10, Minimum Design Loads for Buildings and Other Structures. Copyright © 2010.



Equivalent Radial Ice Thicknesses Due to Freezing Rain with Concurrent 3-Seconds Gust  
Speeds, for a 50-Year Mean Recurrence Interval.

Figure 250-3(b)—Uniform ice thickness with concurrent wind

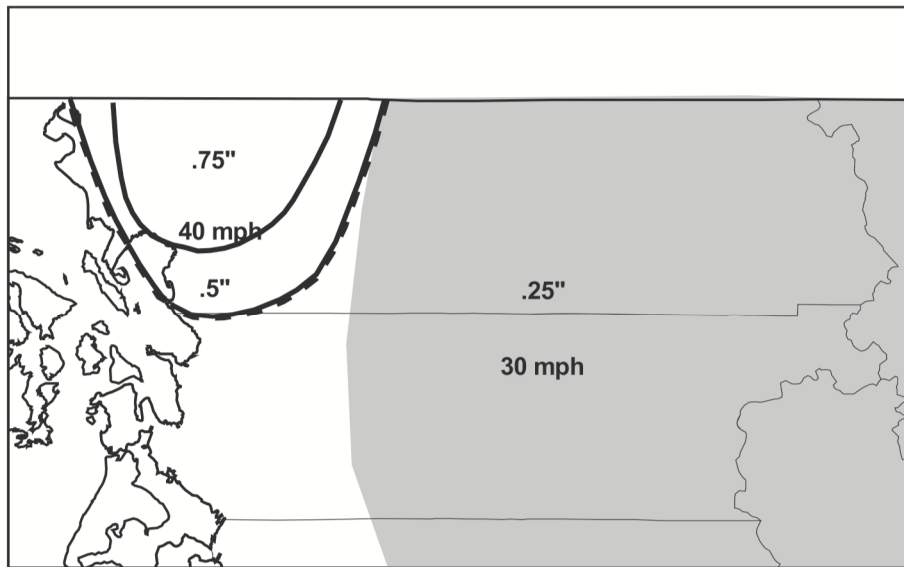
NOTE: Figure 250-3(b) reprinted with permission from ASCE, 1801 Alexander Bell Dr., Reston, VA 20191, from ASCE 7-10, Minimum Design Loads for Buildings and Other Structures. Copyright © 2010.



Lake Superior Detail.

**Figure 250-3(c)—Uniform ice thickness with concurrent wind**

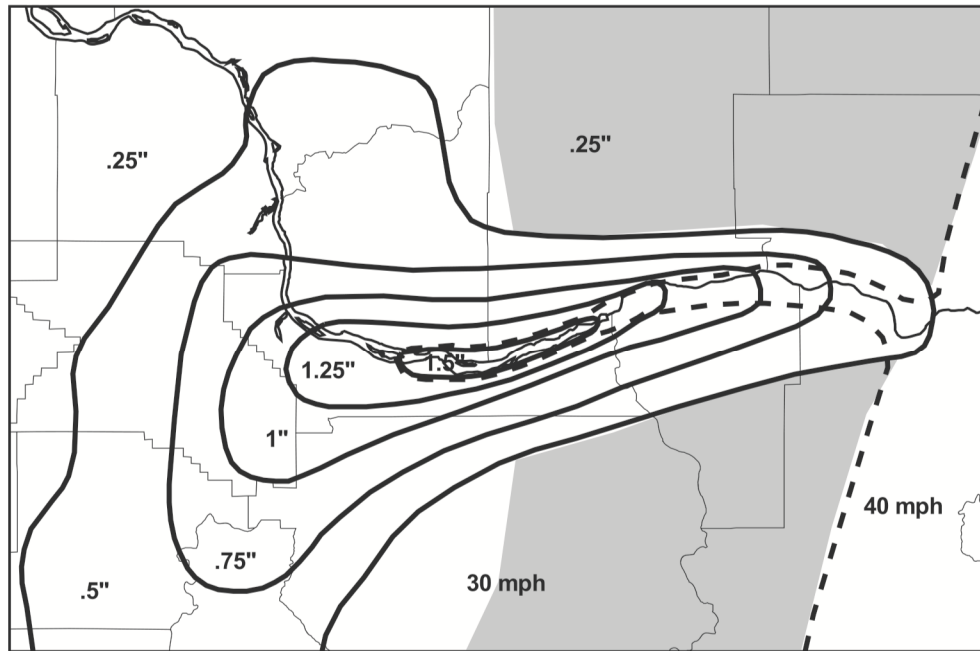
*NOTE:* Figure 250-3(c) reprinted with permission from ASCE, 1801 Alexander Bell Dr., Reston, VA 20191, from ASCE 7-10, Minimum Design Loads for Buildings and Other Structures. Copyright © 2010.



Fraser Valley Detail.

**Figure 250-3(d)—Uniform ice thickness with concurrent wind**

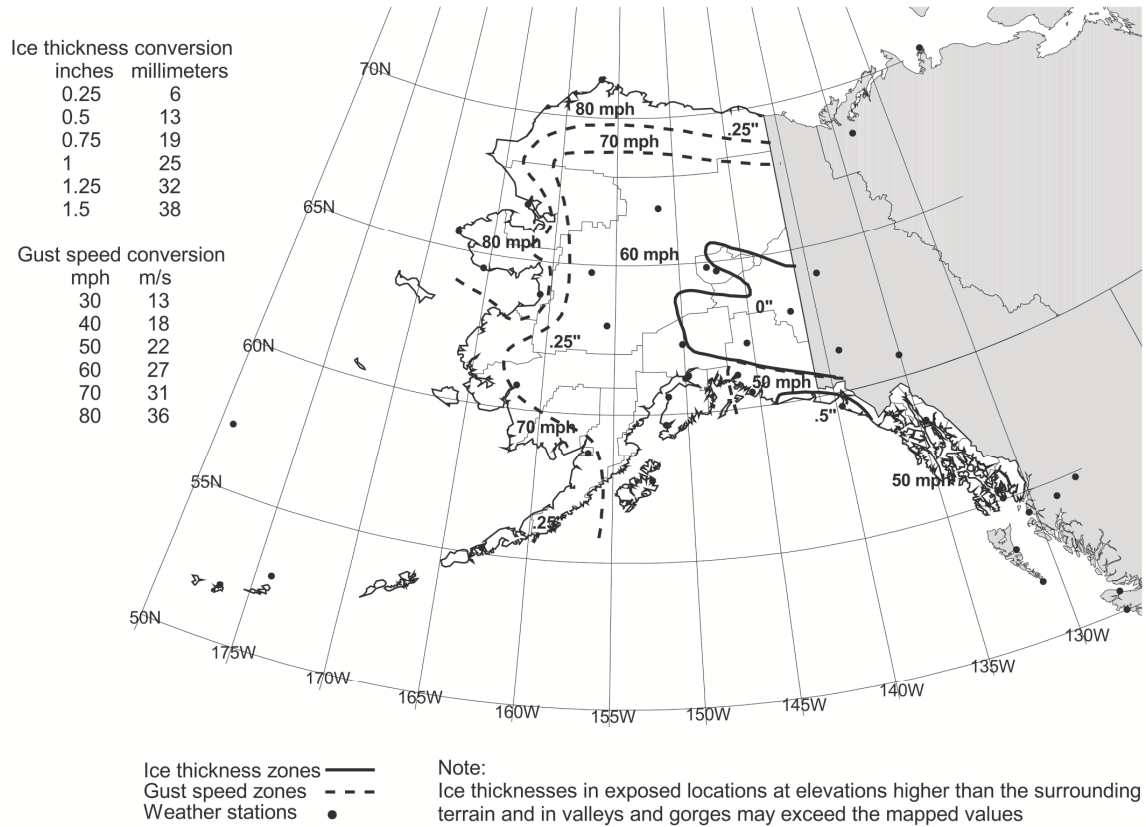
*NOTE:* Figure 250-3(d) reprinted with permission from ASCE, 1801 Alexander Bell Dr., Reston, VA 20191, from ASCE 7-10, Minimum Design Loads for Buildings and Other Structures. Copyright © 2010.



**Columbia River Gorge Detail.**

**Figure 250-3(e)—Uniform ice thickness with concurrent wind**

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**50-Yr Mean Recurrence Interval Uniform Ice Thicknesses Due to Freezing Rain with Concurrent 3-Second Gust Speeds: Alaska.**

**Figure 250-3(f)—Uniform ice thickness with concurrent wind**

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## Section 26. Strength requirements

### 261. Grades B and C construction

- A. Supporting structures
  - 2. Wood structures

*Change the text of condition (c) in EXCEPTION 3 of Rule 261A2a as follows:*

- (c) The angle structure has sufficient strength to withstand, without guys, the transverse loading of Rule 252 multiplied by the appropriate load factors in Table 253-1 or ~~253-2~~, which would exist if there were no angle at that structure without exceeding the permitted stress level.

## **Part 4.**

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

#### **Section 43.**

##### **Additional rules for communications employees**

##### **431. Approach to energized conductors or parts**

*Change the cross reference in Rule 431B as follows:*

B. Altitude correction

The distances in Table 431-1 shall be used at elevations below 3600 m (12 000 ft). Altitude correction factors as indicated in Table ~~441-3~~ 441-6 shall be applied above that altitude. Altitude correction factors shall be applied only to the electrical component of the minimum approach distance.

#### **Section 44.**

##### **Additional rules for supply employees**

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

*Change Rule 441A1c as follows:*

A. Minimum approach distance to energized lines or parts

1. General

- c. The energized line or part is insulated from the employee and from any other line or part at a different voltage. Insulated lines and parts include those covered with suitable insulation and having metallic shield, sheath, or concentric neutral or semiconducting shield in combination with suitable metallic drainage bonded to an effective ground.

##### **446. Energized conductors or parts**

*Change the second paragraph of Rule 446 as follows:*

The distances specified in Table 441-1 ~~or Table 441-2~~ through Table 441-5 shall be maintained from all grounded objects and from other conductors, lines, and equipment having a potential different from that to which conductive equipment and devices are bonded in order to maintain the equipotentially energized work environment in an isolated state.

*Change the second paragraph of Rule 446C as follows:*

- C. When working on insulators under live-line procedures, the clear insulation distance shall be not less than the distances required by Table 441-1 ~~and Table 441-2~~ through Table 441-5.