# Errata to 2002 Edition National Electrical Safety Code

Correction Sheet Issued 5 August 2002

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The following corrections should be made:

### Page vii

The Standards Committe Membership list has G. J. Bagnall as a representative of Rural Electrification Administration, US Department of Agriculture. It should read: Rural Utilities Service, US Department of Agriculture.

## **Pages 77:** Table 232-1 (FT):

Item Line 1 in Column 1 should have a reference to Footnote 22 added as follows:
1. Track rails of railroads (except electrified railroads using overhead trolly conductors)<sup>2, 16, 22</sup>

# **Page 81:** Table 232-2 (M)

- In the third column of the header row the header should read:
  - "Unguarded rigid live parts of 0 to  $750\,\mathrm{V}$  and ungrounded cases that contain equipment connected to circuits of not more than  $750\,\mathrm{V}$ "

### **Page 91:** Table 233-1(M)

It appears that the first two clearance column were intentionally swapped on this and the associated FT table. However, for Line Item 2, the footnote references read as follows:

2. Effectively grounded communication guys, 7 span wires and messengers; communication conductors and cables	0.601	0.60 1, 2	0.60	1.20 8	1.50 <sup>5</sup>
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That line should have the footnote references in columns 2 and 3 swapped to read as follows:

2. Effectively grounded communication guys, <sup>7</sup> span wires and messengers; communication conductors and cables	0.60 <sup>1,2</sup>	0.60 <sup>1</sup>	0.60	1.20 8	1.50 <sup>5</sup>
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## Page 115 Rule 234F1

— In the third line of this rule the wording from the 1997 NESC NESC "... elevator system may be considered..." has been revised in the 2002 NESC to read, "...elevator system shall be considered..."

### Page 122 Rule 2351B—Clearance According to Sags

In the seventh line, this Rule states: "In the following, S is the apparent sag in inches of the conductor having the greater sag, and the clearance is in inches." The Rule then continues

- (1) For line conductors smaller than AWG No. 2: clearance = 7.6 mm per kilovolt (0.3 in) +  $7\sqrt{S/(3-8)}$ . (Table 235-2 shows selected values up to 46 kV.)
- (2) For line conductors of AWG No. 2 or larger: clearance = 7.6 mm per kilovolt (0.3 in) +  $8\sqrt{S/12}$ . (Table 235-3 shows selected values up to 46 kV.)
- There are two errors in the above.
- o The formula shown in Table 235-2 (in) is:  $0.3 (kV) + 4.04 \sqrt{S 24}$  o The units given in the above text should be inches only.
- The above two Rules should be corrected to read as follows:
- (3) For line conductors smaller than AWG No. 2: clearance = 0.3 inches per kilovolt +  $4.04\sqrt{S-24}$ . (Table 235-2 shows selected values up to 46 kV.)
- (4) For line conductors of AWG No. 2 or larger: clearance = 0.3 inches per kilovolt  $+8\sqrt{S/12}$  . (Table 235-3 shows selected values up to 46 kV.)

# Page 125 Table 235-3 (m)

There is a "typographical" error in Table 235-3 (m) — The 2240 mm sag should be 2440 mm. The line should read as follows:

Voltage	Sag (mm)							
Voltage between conductors (kV)	915	1220	1830	2440	3048	4572	6096	But not less than <sup>1</sup>

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### Page 180 Rule 261J

Rule 261J should be is incorrect and should read as follows:

"Open-wire communication conductors in Grade B or C construction shall have the tensions and sags in Rule 261H1 for supply conductors of the same grade."

# Page 181 Rule 261L2

Rule 261L2 should be corrected to read as follows:

### 2. Paired Conductors Not Supported on Messenger

a. Above Supply Lines

Grade B: Sizes and sags shall be not less than those in Rule 261H1 for supply conductors of similar grade.

Grade C: Sizes and sags shall be not less than the following:

Spans 0 to 30 m (0 to 100 ft)—No sag requirements.

Each conductor shall have a rated breaking strength of not less than 0.75 kN (170 lb).

Spans 30 to 45 m (100 to 150 ft)—Sizes and sags shall be not less than required for Grade B communication conductors.

Spans exceeding 45 m (150 ft)—Sizes and sags shall be not less than required for Grade C supply conductors. (See Rule 261H1).

### b. Above Trolley-Contact Conductors

Grade B: Sizes and sags shall be not less than the following:

Spans 0 to 30 m (0 to 100 ft)—No size requirements. Sags shall be not less than for AWG No. 8 hard-drawn copper. (See Rule 261H1.)

Spans exceeding 30 m (100 ft)—Each conductor shall have a rated breaking strength of not less than 0.75 kN (170 lb). Sags shall be not less than for AWG No.8 hard-drawn copper. (See Rule 261H1.)