Recommended Amendments to the 2011 National Electrical Code

City of Amarillo Texas

The following sections, paragraphs, and sentences of the *2011 National Electrical Code* are hereby amended as follows: Standard type is text from the NEC. Underlined type is text inserted. ~~Lined through type is deleted text from NEC.~~ Shaded text is changes made between the 2008 and 2011 NEC. A double asterisk (**) at the beginning of a section identifies an amendment carried over from the 2008 edition of the code and a triple asterisk (***) identifies a new or revised amendment with the 2011 code.

*****Article NEC250.118 Types of Equipment Grounding Conductors;** Change to read as follows:

The equipment grounding conductor run with or enclosing the circuit conductors shall be one or more or a combination of the following:

(1) A copper, aluminum, or copper-clad aluminum conductor. This conductor shall be solid or stranded; insulated, covered, or bare; and in the form of a wire or a busbar of any shape.

~~(2) Rigid metal conduit.~~

~~(3) Intermediate metal conduit.~~

~~(4) Electrical metallic tubing.~~

~~(5) Listed flexible metal conduit meeting all the following conditions:~~

~~a. The conduit is terminated in listed fittings.~~

~~b. The circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.~~

~~c. The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).~~

~~d. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.~~

~~(6) Listed liquidtight flexible metal conduit meeting all the following conditions:~~

~~a. The conduit is terminated in listed fittings.~~

~~b. For metric designators 12 through 16 (trade sizes through ½), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.~~

~~c. For metric designators 21 through 35 (trade sizes ¾ through 1¼), the circuit conductors contained in the conduit are protected by overcurrent devices rated not more than 60 amperes and there is no flexible metal conduit, flexible metallic tubing, or liquidtight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes through ½) in the ground-fault current path.~~

~~d. The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).~~

~~e. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.~~

~~(7) Flexible metallic tubing where the tubing is terminated in listed fittings and meeting the following conditions:~~

~~a. The circuit conductors contained in the tubing are protected by overcurrent devices rated at 20 amperes or less.~~

~~b. The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).~~

~~(8) Armor of Type AC cable as provided in 320.108.~~

(9) The copper sheath of mineral-insulated, metal-sheathed cable.

(10) Type MC cable that provides an effective ground-fault current path in accordance with one or more of the following:

a. It contains an insulated or uninsulated equipment grounding conductor in compliance with 250.118(1)

b. The combined metallic sheath and uninsulated equipment grounding/bonding conductor of interlocked metal tape–type MC cable that is listed and identified as an equipment grounding conductor

~~c.~~ ~~The metallic sheath or~~ The combined metallic sheath and equipment grounding conductors of the smooth or corrugated tube-type MC cable that is listed and identified as an equipment grounding conductor

(11) Cable trays as permitted in 392.10 and 392.60.

(12) Cablebus framework as permitted in 370.3.

~~(13) Other listed electrically continuous metal raceways and listed auxiliary gutters.~~

~~(14) Surface metal raceways listed for grounding.~~

Informational Note: For effective ground-fault current path, see 250.2 Definition

(Reason: Local practice to ensure proper equipment grounding conductor is maintained. Conduit utilized as the equipment grounding conductor does not ensure continuity)

*****Table 310.106(A) Minimum Size of Conductors;** Change to read as follows:

Minimum Conductor Size (AWG)		
Conductor Voltage Rating (Volts)	Copper	Aluminum or Copper-Clad Aluminum
0-2000	14	~~12~~ 6
2001-5000	8	~~8~~ 4
5001-8000	6	~~6~~ 2
8001-15,000	2	2
15,001-28,000	1	1
28,001-35,000	1/0	1/0

(Reason: Concern for use of aluminum conductors)

END