

**Recommended Amendments to the
2008 National Electrical Code**
North Central Texas Council of Governments Region

REGIONAL AMENDMENTS*

~~**Section 500.8(A)(1) change to read as follows:~~

~~**500.8 Equipment.**~~

~~**(A) Approval for Class and Properties.**~~

~~(1) Equipment shall be identified...(text unchanged)...the maximum surface temperatures specified in 503.4.~~

~~FPN: Luminaries (lighting fixtures) and other heat-producing apparatus...(text unchanged)...see Exception No. 3 to 500.8(B).~~

~~Suitability of identified equipment shall be determined by any of the following: (1) Equipment listing or labeling (2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation (3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation or an owner's engineering judgment.~~

~~REASON FOR CHANGE: "Identified" is already defined in Chapter 1.~~

~~**REASON FOR CHANGE: Delete previous amendment**~~

**Section 500.8(A)(3) changed to read as follows:

500.8 Equipment.

Articles 500 through 504 require equipment construction and installation that ensure safe performance under conditions of proper use and maintenance.

FPN No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance.

FPN No. 2: Since there is no consistent relationship between explosion properties and ignition temperature, the two are independent requirements.

FPN No. 3: Low ambient conditions require special consideration. Explosion proof or dust-ignition proof equipment may not be suitable for use at temperatures lower than -25°C (-13°F) unless they are identified for low-temperature service. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified as Class I, Division 1 at normal ambient temperature.

(A) Suitability. Suitability of identified equipment shall be determined by one of the following:

- (1) Equipment listing or labeling
- (2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation

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(3) Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation or ~~an owner's engineering judgment.~~ an engineering judgment signed and sealed by a qualified Registered Professional Engineer.

FPN: Additional documentation for equipment may include certificates demonstrating compliance with applicable equipment standards, indicating special conditions of use, and other pertinent information.

REASON FOR CHANGE: To better define the qualifications for an engineering judgment.

**Section 505.7(A) changed to read as follows:

505.7 Special Precaution.

Article 505 requires equipment construction and installation that ensures safe performance under conditions of proper use and maintenance.

FPN No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to the installation and maintenance of electrical equipment in hazardous (classified) locations.

FPN No. 2: Low ambient conditions require special consideration. Electrical equipment depending on the protection techniques described by 505.8(A) may not be suitable for use at temperatures lower than -20°C (-4°F) unless they are identified for use at lower temperatures. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified Class I, Zones 0, 1, or 2 at normal ambient temperature.

(A) Implementation of Zone Classification System. Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed by qualified persons Registered Professional Engineer.

REASON FOR CHANGE: To better identify who is qualified to implement Zone Classification Systems.

**Section 680.25(A) changed to read as follows:

680.25 Feeders.

These provisions shall apply to any feeder on the supply side of panelboards supplying branch circuits for pool equipment covered in Part II of this article and on the load side of the service equipment or the source of a separately derived system.

(A) Wiring Methods. Feeders shall be installed in rigid metal conduit, intermediate metal conduit, liquidtight flexible nonmetallic conduit, rigid polyvinyl chloride conduit, or reinforced thermosetting resin conduit. Electrical metallic tubing shall be permitted where installed on or within a building, and electrical nonmetallic tubing shall be permitted where installed within a building, or nonmetallic-sheathed cable or type SE cable shall be permitted where installed within or on the building served. Aluminum conduits shall not be permitted in the pool area where subject to corrosion.

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Exception: An existing feeder between an existing remote panel board and service equipment shall be permitted to run in flexible metal conduit or an approved cable assembly that includes an equipment grounding conductor within its outer sheath. The equipment grounding conductor shall comply with 250.24(A)(5).

REASON FOR CHANGE: To allow for more flexibility of wiring methods associated with this type of installation.

END

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