

EXHIBIT "A"

City of Mansfield
Amendments to the
2005 National Electrical Code
North Central Texas Council of Governments Region

Section 230.70 (A)(1) change to read as follows:

230.70 (A)(1) Readily Accessible Location. The service disconnecting means shall be installed at a readily accessible location ~~either outside of a building or structure or inside nearest the point of entrance of the service conductors.~~

(Reason: To provide a means of disconnect for fire department personnel in the event of an emergency. This requirement shall apply only to commercial or industrial buildings or structures.)

Section 230.71 (A) add an exception.

230.71 Maximum Number of Disconnects.

(A) General. The service disconnecting means for each service permitted by 230.2, or for each set of service-entrance conductors permitted by 230.40, Exception Nos. 1,3,4, or 5, shall consist of not more than six switches or sets of circuit breakers, mounted in a single enclosure, in a group of separate enclosures, or in or on a switchboard. There shall be no more than six sets of disconnects per service grouped in any one location. For the purpose...{text unchanged}...shall not be considered a service disconnecting means.

Exception: Multi-occupant Buildings. Individual service disconnecting means is limited to six for each occupant. The number of individual disconnects at one location may exceed six.

(Reason: This is currently the accepted installation practice of the region. No noteworthy complaints have surfaced. It is more reasonable than the current NEC requirements. It allows more than six disconnects grouped at one location. This also allows designers more flexibility in the placement of electrical meters and main service disconnects.)

Section 300.11 add an exception.

300.11 Securing and Supporting.

(A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and raceways shall not be supported by ceiling grids.

Exception: Ceiling grid support wires may be used for structural supports when the associated wiring is located in that area, not more than two raceways or cables supported per wire, with a maximum nominal metric designation 16 (trade size 1/2").

(Reason: To provide limited support of raceways and cables by ceiling grid support wire.)

EXHIBIT "A"

Section 310.15(B)(6) change to read as follows:

310.15 Ampacities for Conductors Rated 0-2000 Volts.

(B) Tables.

(6) 120/240-Volt, 3-Wire, Single –Phase Dwelling Services and Feeders. For dwelling units, conductors, as listed in Table 310.15(B)(6), shall be...{text unchanged}...provided the requirements of 215.2, 220.61, and 230.42 are met. This Section shall not be used in conjunction with 220.82.

(Reason: To provide a more reasonable margin of safety for dwelling service and feeder conductor allowable ampacities.)

Section 334.12 add another use not permitted, (11):

334.12 Uses Not Permitted.

(A) Types NM, NMC, and NMS.

(1) In any dwelling or structure not specifically permitted in 334.10(1), (2), and (3).

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(11) In non-residential metal frame structures.

(Reason: Limiting the use of NM cable in non-residential metal frame construction is suggested due to the inherent problems with soft jacketed wiring methods in buildings that utilized mainly metal stud and other metal frame construction with sharp edges of unknown proportion. It is believed that the potential safety issues against the use of allowing a soft jacketed wiring method in such construction far outweighed any positive benefits.)

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 503.1.

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: "Identified" is already defined in Chapter 1.)

END

***NOTE:** Underlining indicates new words and phrases to be added to the 2005 National Electrical Code. ~~Strikeouts~~ indicate existing words and phrases to be deleted.