CITY OF HASLET

ORDINANCE NO. 012-2017

AN ORDINANCE OF THE CITY OF HASLET, TEXAS, AMENDING SECTION 3.01.002 OF THE CODE OF ORDINANCES BY ADOPTING THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL AMENDMENTS; PROVIDING THAT THIS ORDINANCE SHALL BE CUMULATIVE OF ALL ORDINANCES; PROVIDING A SEVERABILITY CLAUSE; PROVIDING A SAVINGS CLAUSE; PROVIDING FOR PENALTIES FOR VIOLATIONS HEREOF; PROVIDING FOR PUBLICATION; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, the City of Haslet, Texas is a Type A general law municipality located in Tarrant and Denton Counties, created in accordance with Chapter 6 of the Local Government Code; and operating pursuant to the enabling legislation of the State of Texas; and

WHEREAS, the City Council desires to update the nationally-recognized National Electrical Code, previously approved by the City Council; and

WHEREAS, the City Council has reviewed the available codes and has determined that the 2014 Edition of the National Electrical Code most fully meet the needs of the City of Haslet, Texas; and

WHEREAS, the City Council of the City of Haslet, Texas, desires to provide a mechanism by which local modifications reflecting the unique needs of the City of Haslet may be made when deemed appropriate; and

WHEREAS, the North Central Texas Council of Governments and City Staff have recommended adoption of certain amendments to the 2014 Edition of the National Electrical Code, to reflect locally accepted practice; and

WHEREAS, the City Council of the City of Haslet, Texas, has determined that these local amendments are in the public interest and therefore deems it advisable to amend the 2014 Edition of the National Electrical Code, to incorporate these local amendments; and

WHEREAS, in order to offset costs associated with the administration, investigation and implementation of the municipal codes adopted herein, the City Council of the City of Haslet, Texas desires to adopt fee schedules for the cost of the various services provided by the City relating to such municipal codes; and

WHEREAS, the City Council desires to amend Sec. 3.01.002 "National Electrical Code" of the City Code, by adopting the 2014 Edition of the National Electrical Code and adopting local amendments thereto.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF HASLET, TEXAS:

SECTION 1.

That Sec. 3.01.002, "National Electrical Code", of Chapter 3 "Building Regulations" of the Code of Ordinances of the City of Haslet is hereby amended to read as follows:

"**Sec. 3.01.004 National Electrical Code**

(a) The City hereby adopts the 2014 Edition of the National Electrical Code as the official Electrical code of the City. This Electrical code is fully incorporated by reference as though copied into this article in its entirety. The material contained in the National Electrical Code shall be maintained as a public record in the office of the City Secretary and will be available for public inspection and copying during regular business hours.

(b) The 2014 Edition of the National Electrical Code, as adopted herein, is hereby amended as shown on Exhibit "A" (2014 National Electrical Code - Regional and Local Amendments) on file in the office of the City Secretary."

SECTION 2.

This ordinance shall be cumulative of all provisions of ordinances of the City of Haslet, Texas, except where the provisions of this ordinance are in direct conflict with the provisions of such ordinances, in which event the conflicting provisions of such ordinances are hereby repealed.

SECTION 3.

It is hereby declared to be the intention of the City Council that the phrases, clauses, sentences, paragraphs and sections of this ordinance are severable, and if any phrase, clause, sentence, paragraph or section of this ordinance shall be declared unconstitutional by the valid judgment or decree of any court of competent jurisdiction, such unconstitutionality shall not affect any of the remaining phrases, clauses, sentences, paragraphs and sections of this ordinance, since the same would have been enacted by the City Council without the incorporation in this ordinance of any such unconstitutional phrase, clause, sentence, paragraph or section.

SECTION 4.

All rights or remedies of the City of Haslet, Texas, are expressly saved as to any and all violations of the Code of Ordinances of the City of Haslet, Texas relating to the Electrical Code that have accrued at the time of the effective date of this ordinance; and any accrued violations, or pending litigation, both civil and criminal, whether pending in court or not under such ordinances, shall not be affected by this ordinance but may be prosecuted until final disposition by the courts.

SECTION 5.

Any person, firm or corporation who violates, disobeys, omits, neglects or refuses to comply with or who resists the enforcement of any of the provisions of this ordinance shall be fined not more than Five Hundred Dollars ($500.00). Each day that a violation is permitted to exist shall constitute a separate offense.

SECTION 6.

The City Secretary is directed to publish in the official newspaper of the City, the caption, penalty clause, and effective date clause of this ordinance one time as authorized by Section 52.011 of the Texas Local Government Code.

SECTION 7.

This ordinance shall be in full force and effect from and after its passage and publication as required by law, and it is so ordained.

PASSED AND APPROVED ON THIS THE 17th DAY OF APRIL, 2017.

EFFECTIVE DATE: April 19, 2017

Bob Golden

Bob Golden, Mayor

ATTEST:

Dianna Buchanan

Dianna Buchanan, City Secretary

City of Haslet
HASLET
Texas

Exhibit "A" (2014 National Electrical Code - Regional and Local Amendments)

Recommended Amendments to the

2014 National Electrical Code

North Central Texas Council of Governments

The following articles, paragraphs, and sentences of the *2014 National Electrical Code (NEC)* are hereby amended as follows: Standard type is text from the NEC. Highlighted with gray shading is text inserted. ~~Lined through type is deleted text from NEC.~~ A double asterisk (**) at the beginning of an article identifies an amendment carried over from the 2011 edition of the code and a triple asterisk (***) identifies a new or revised amendment with the 2014 code.

******Article 100; add the following to definitions:***

Engineering Supervision. Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations.

(REASON FOR CHANGE: To better define the qualifications for engineering supervision. This term is used twenty four times in the National Electrical Code.)

******Article 100; amend the following definition:***

Intersystem Bonding Termination. A device that provides a means for connecting intersystem bonding conductors for communication systems and other systems ~~such as metallic gas piping systems~~ to the grounding electrode system. Bonding conductors for other systems shall not be larger than 6 AWG.

(REASON FOR CHANGE: To allow for a termination point for other bonding conductors in addition to communication systems that are required by the various model codes. 6 AWG was chosen to coincide with the minimum size of bonding conductor required to the intersystem bonding jumper.)

******Article 110.2; change the following to read as follows:***

110.2 Approval. The conductors and equipment required or permitted by this *Code* shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third party inspection agency approved by the AHJ.

Exception: Unlisted equipment that is relocated to another location within a jurisdiction or is field modified is subject to the approval by the AHJ. This approval may be by a field evaluation by a NRTL or qualified third party inspection agency approved by the AHJ.

~~Manufacturer's self-certification of any equipment shall not be used as a basis for approval by the AHJ.~~

Informational Note No. 1: See 90.7, Examination of Equipment for Safety, and 110.3, Examination, Identification, Installation, and Use of Equipment. See definitions of *Approved*, *Identified*, *Labeled*, and *Listed*.

Informational Note No. 2: Manufacturer's self-certification of equipment may not necessarily comply with US product safety standards as certified by a Nationally Recognized Testing Lab.

Informational Note No. 3: NFPA 790 and 791 provide an example of an approved method for qualifying a third party inspection agency.

(REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval of unlisted equipment.)

******Article 210.52(G) (1) Garages:* delete the following**

(1) Garages. In each attached garage and in each detached garage with electric power. ~~The branch circuit supplying this receptacle(s) shall not supply outlets outside of the garage.~~ At least one receptacle outlet shall be installed for each car space.

(*REASON FOR CHANGE: Installations in compliance with this Code are not necessarily efficient, convenient, or adequate for good service or future expansion of electrical use.)*

****Article 230.71(A); add the following exception:**

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 FOR CHANGE: 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.)

******Article 240.91; delete the Article.***

(REASON FOR CHANGE: Present day equipment is not listed and has not been evaluated for the use. Removing this article may prevent both installers and AHJ's from misapplying the Code.

****Article 300.11; add the following exception:**
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 FOR CHANGE: To provide limited support of raceways and cables by ceiling grid support wire.)

Article 310.15(B) (7); change to read as follows:

(7) This Article shall not be used in conjunction with 220.82.

(REASON FOR CHANGE: 310.15(B) (7) has been revised and the table has been deleted.)

Article 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.

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

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

Informational Note No. 3: Low ambient conditions require special consideration. Explosionproof or dust-ignitionproof 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
(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~~ licensed Professional Engineer in the State of Texas.

Informational Note: 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: Carry over from previous amendment with change to better define the qualifications for an engineering judgment.)

Article 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.

Informational Note 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.

Informational Note 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 a qualified ~~persons~~ ~~Registered~~ licensed Professional Engineer in the State of Texas.

(REASON FOR CHANGE: Carry over from previous amendment with change to better define the qualifications for an engineering judgment.)

*****Article 517.30 Essential Electrical Systems for Hospitals; create a new (H) and add the following language:**

(G) Coordination. Overcurrent protective devices serving the equipment branch of the essential electrical system shall be coordinated for the period of time that a fault's duration extends beyond 0.1 second.

Exception No. 1: Between transformer primary and secondary overcurrent protective devices, where only one overcurrent protective device or set of overcurrent protective devices exists on the transformer secondary.

Exception No. 2: Between overcurrent protective devices of the same size (ampere rating) in series.

Informational Note: The terms coordination and coordinated as used in this section do not cover the full range of overcurrent conditions.

(H) Selective Coordination. Overcurrent protective devices serving the life safety, and critical branches of the essential electrical system shall be selectively coordinated with all supply-side overcurrent protective devices.

Exception No. 1: Between transformer primary and secondary overcurrent protective devices, where only one overcurrent protective device or set of overcurrent protective devices exists on the transformer secondary.

Exception No. 2: Between overcurrent protective devices of the same size (ampere rating) in series.

Informational Note: The terms coordination and coordinated as used in this section do not cover the full range of overcurrent conditions.

(REASON FOR CHANGE: Changes made by deleting the definition of emergency systems in Article 517 Health Care Facilities and removing emergency systems as

"Essential Electrical Systems for Hospitals in 517.30(B) (2), plus the new addition of section 517.30(G) for "Coordination" instead of using selective coordination, has diminished the reliability of the "Life Safety and Critical Branches of the Essential Electrical System" to deliver power to vital loads. By providing only "coordination," the instantaneous portion of the time-current curve has been eliminated from the overcurrent device settings.)

*****Article 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.

(1) Feeders. Feeders shall be installed in rigid metal conduit, intermediate metal conduit. The following wiring methods shall be permitted if not subject to physical damage:

(1) Liquidtight flexible nonmetallic conduit
(2) Rigid polyvinyl chloride conduit
(3) Reinforced thermosetting resin conduit
(4) Electrical metallic tubing where installed on or in a building
(5) Electrical nonmetallic tubing where installed within a building
(6) Type MC Cable where installed within a building and if not subject to corrosive environment
(7) Nonmetallic-sheathed cable
(8) Type SE cable

~~Exception: A feeder within a one-family dwelling or two-family dwelling unit between remote panelboard and service equipment shall be permitted to run in flexible metal conduit or an approved cable assembly that includes an insulated equipment grounding conductor within its outer sheath. The equipment grounding conductor shall comply with 250.24(A) (5).~~

(REASON FOR CHANGE: Carry over from previous amendments. Text changed to reflect 2014 National Electrical Code. Exception deleted per Errata No.70-14-2)

END