



Roll Call Number

Agenda Item Number

35B

Date December 22, 2014

An Ordinance entitled, "AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by adding and enacting new Sections 26-411 and 26-412, and by amending Section 26-400 and Sections 26-405 through 26-410, all in Article IV, Electrical Code, of Chapter 26, BUILDINGS AND BUILDING REGULATIONS, to adopt the 2014 edition of the National Electrical Code, and to delete and amend portions thereof",

which was considered and voted for the first time upon under Roll Call No. 14-1883 of December 8, 2014, again presented.

MOVED by \_\_\_\_\_ that this ordinance be considered and given second vote for passage.

FORM APPROVED:

(Second of three required readings)

Roger K. Brown

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Assistant City Attorney

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| COUNCIL ACTION | YEAS | NAYS     | PASS | ABSENT |
|----------------|------|----------|------|--------|
| COWNIE         |      |          |      |        |
| COLEMAN        |      |          |      |        |
| GATTO          |      |          |      |        |
| GRAY           |      |          |      |        |
| HENSLEY        |      |          |      |        |
| MAHAFFEY       |      |          |      |        |
| MOORE          |      |          |      |        |
| TOTAL          |      |          |      |        |
| MOTION CARRIED |      | APPROVED |      |        |

CERTIFICATE

I, DIANE RAUH, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

Mayor

City Clerk

14-1883  
34B  
35B

ORDINANCE NO. \_\_\_\_\_

AN ORDINANCE to amend the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as heretofore amended, by adding and enacting new Sections 26-411 and 26-412, and by amending Section 26-400 and Sections 26-405 through 26-410, all in Article IV, Electrical Code, of Chapter 26, BUILDINGS AND BUILDING REGULATIONS, to adopt the 2014 edition of the National Electrical Code, and to delete and amend portions thereof.

BE IT ORDAINED by the City Council of the City of Des Moines, Iowa:

Section 1. That the Municipal Code of the City of Des Moines, Iowa, 2000, adopted by Ordinance No. 13,827, passed June 5, 2000, as amended by Ordinance No. 15,206 passed August 12, 2013, be and is hereby amended, by adding and enacting new Sections 26-411 and 26-412, and by amending Section 26-400 and Sections 26-405 through 26-410, all in Article IV, Electrical Code, of Chapter 26, BUILDINGS AND BUILDING REGULATIONS, to adopt the 2014 edition of the National Electrical Code, and to delete and amend portions thereof, as follows:

**ARTICLE IV. ELECTRICAL CODE**

Division 1. Generally

**Sec. 26-400. Adoption of the National Electrical Code.**

- (a) This article shall consist of the National Electrical Code, ~~2011~~ 2014 edition, published by the National Fire Protection Association, commonly known as and referred to in this article as the "National Electrical Code" or "NEC", a copy of which is on file in the office of the city clerk and which is incorporated by this reference in its entirety, except as otherwise indicated in this article.
- (b) This article and all provisions incorporated in this article, by reference or otherwise, shall be known as the electrical code. References to section numbers not preceded by "26-" will be to ~~sections~~ *article* in the National Electrical Code.

Division 2. Deletions and Amendments

**Sec. 26-405 Deletions.**

The following are deleted from the NEC and are of no force or effect in this article:

- (1) Article 210.12(B).
- (2) Article 406.4(D)(4).

**Sec. 26-405406. Amendments and additions.**

- (a) The remaining sections in this article are and represent amendments and additions to the requirements contained in the National Electrical Code (NEC) and where their requirements conflict with those of the NEC the requirements of this article shall prevail.
- (b) The following sections of this article shall be construed in the context of the enumerated chapter of the NEC.

**Sec. 26-406407. Scope.**

- (a) The provisions of this article shall apply to the following:
  - (1) The electrical conductors and equipment installed within or on public and private buildings and other premises.
  - (2) The conductors that connect the installations to a supply of electricity, and other outside conductors adjacent to the premises.
  - (3) Mobile homes.
- (b) Additions to, alterations of, and repairs to existing electrical equipment shall comply with the electrical code. Furthermore, existing electrical equipment that is temporarily exposed or made accessible because of any remodeling or repair of an existing structure, shall be made to comply with the electrical code. In any event, the building official may, when any additions, alterations, or repairs are made, order other reasonable additions or alterations in the electrical equipment of a structure or on any premises when a danger to life or property may result if such other additions or alterations were not made.
- (c) Installations which were in compliance with the electrical code in existence at the time such installations were made shall be presumed to be safe and proper, which presumption can be rebutted by evidence that the installation may be dangerous to life or property.
- (d) If the classification of a building has been changed due to a change in occupancy, the wiring in the entire building shall comply with all the electrical standards applicable to the new classification. If the occupancy of a building has been changed to a mixed occupancy, with the required fire separation between the mixed occupancy, each occupancy shall comply with its own particular classification and shall be wired in compliance with the electrical standards of its particular classification.
- (e) ~~No permits or inspections~~ are required for electrical wiring of 50 volts or less. Such systems shall comply with the NEC.
- (f) The provisions of sections 26-135 through 26-143 and 26-450 through 26-451, inclusive, of this article shall not apply in any respect to persons who are licensed by law to engage in the business of supplying and distributing electricity or the transmission of communication, when the person is installing, operating or maintaining electrical equipment or doing electrical work as an integral part of such business.
- (g) Whenever service entrances are altered or upgraded, residential structures shall be updated throughout to the requirements consistent with the electrical code in accordance with the City of Des Moines Electrical Residential Update Requirements, as amended from time to time.

**Sec. 26-407408. Applicability to moved buildings.**

Residential buildings or structures moved into or within the boundaries of the city shall comply with the electrical code in accordance with the City of Des Moines Electrical Residential Update Requirements, as amended from time to time.

**Sec. 26-408409. Service entrance requirements.**

- (a) All service entrances in and upon buildings and structures within the city shall be of the class known as "rigid metal conduit or electrical metallic tubing," except as provided in this section.
- (b) Underground service entrances for all buildings except in single-family, two-family, and row dwellings shall be of moisture resistant wire installed in rigid metal conduit or approved non-metallic raceway such as schedule 40 polyvinylchloride or its equivalent.
- (c) Other provisions of this section to the contrary notwithstanding, that portion of an underground service lateral that is installed by an electrical contractor, but is owned and maintained by a business licensed by law to engage in the business of supplying and distributing electricity, may be of a type used by such a business for such an installation.
- (d) All direct burial cable used by the utility company for the purpose of distributing electrical current within the city, shall be placed and located in the ground a minimum depth of 30" below the proposed final grade. No separation shall be required between electrical conductors and communications conductors when laid in a common trench.
- (e) Underground service entrance risers, to the meter, may be schedule 40 PVC, when not subject to physical damage.

**Sec. 26-409410. Conformity with standards.**

Conformity with standards established by any nationally recognized third-party testing and certification agency approved by the American National Standards Institute shall be evidence of conformity with approved standards for electrical equipment.

**Sec. 26-410411. ~~Amendments to g~~Ground-fault circuit-interrupter protection requirements.**

- (a) Add the following exceptions to ~~section~~ article 210.8, paragraph (A), subparagraph (2) of the NEC:
  - (1) Exception No. 1 to (2): Receptacles that are not readily accessible.
  - (2) Exception No. 2 to (2): A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that, in normal use, is not easily moved from one place to another and that is cord-and-plug connected in accordance with 400.7(A)(6), (A)(7), or (A)(8).
  - (3) Receptacles installed under the exceptions to 210.8(A)(2) shall not be considered as meeting the requirements of 210.52(G).
- (b) Add the following exceptions to article 210.8, paragraph (A), subparagraph (5) of the NEC:
  - (1) Exception No. 2 to (5): Receptacles that are not readily accessible.
  - (2) Exception No. 3 to (5): A single receptacle or a duplex receptacle for two

14-1883  
SYB  
35B

appliances located within dedicated space for each appliance that, in normal use, is not easily moved from one place to another and that is cord-and-plug connected in accordance with 400.7(A)(6), (A)(7), or (A)(8).

- (c) Add the following text to the end of ~~to section~~ article 210.8, paragraph (A), subparagraph (5) of the NEC:

Receptacles installed under the exceptions to 210.8(A)(5) shall not be considered as meeting the requirements of 210.52(G).

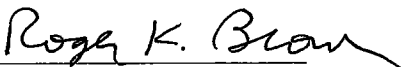
**Sec. 26-412. Lighting load calculations.**

The exception to article 220.12 of the NEC is hereby amended by deleting said exception and inserting in lieu thereof the following:

Exception: Where the building is designed and constructed to comply with the energy code, the lighting load shall be permitted to be calculated at the values specified in the energy code.

Sec. 2. This ordinance shall be in full force and effect from and after the later of its passage and publication as provided by law.

FORM APPROVED:



Roger K. Brown  
Assistant City Attorney

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