

CHAPTER IV. BUILDINGS AND CONSTRUCTION

SECTIONS

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ARTICLE 3. ELECTRICAL CODE

4-301. NATIONAL ELECTRICAL CODE ADOPTED. There is hereby incorporated by reference that certain code known as the National Electrical Code, 2011 edition, prepared and published in book form by the National Fire Protection Association (NFPA No. 70-2005), including annexes A, B, C, D, F, G and I, save and except such articles, sections, parts or portions as are hereafter omitted, deleted, modified or changed or added hereto, such incorporation being authorized by K.S.A. § 12-3009 through 12-3012, as amended. No fewer than three copies of said Code shall be marked or stamped "Official copy as incorporated by Ordinance No. 2594C" with all sections or portions thereof intended to be omitted or changed clearly marked to show any such omission or change and to which shall be attached a copy of this ordinance, and filed with the City Clerk to be open to inspection and available to the public at all reasonable hours.

(Ord. 2594C; 12-03-12)
(Ord. 2292C; 02-04-08)
(Ord. 1931C; 01-22-02)
(Code 2000)
(Ord. 1630C; 11-04-96)

4-302. NATIONAL ELECTRICAL CODE; ARTICLE 90, INTRODUCTION, DELETED.

All sections of Article 90 entitled Introduction are hereby deleted and omitted.

(Ord. 2594C; 12-03-12)

(Ord. 2292C; 02-04-08)

(Ord. 1931C; 01-22-02)

(Code 2000)

(Ord. 1630C; 11-04-96)

4-303. NATIONAL ELECTRICAL CODE, SECTION 90.1, SCOPE. A new section 90.1 of the National Electrical Code is enacted to read as follows:

(a) Covered. This Electrical Code covers the following:

1. Installations of electric conductors and equipment within or on public and private buildings or other structures, including mobile homes, recreational vehicles, and floating buildings, and other premises such as yards, carnivals, parking, and other lots, and industrial substations.
2. Installations of conductors and equipment that connect to the supply of electricity.
3. Installations of other outside conductors and equipment on the premises.
4. Installations of optical fiber cables and raceways.
5. Installations in building used by the electric utility, such as office buildings, warehouses, garages, machine shops, and recreational buildings, that are not an integral part of a generating plant, substation, or control center.

(b) Not Covered. The Leawood Building Code does not cover the following:

1. Installations in ships, watercraft other than floating buildings, railway rolling stock, aircraft, or automotive vehicles other than mobile homes and recreational vehicles.
2. Installations underground in mines and self-propelled mobile surface mining machinery and its attendant electrical trailing cable.
3. Installations of railways for generation, transformation, transmission, or distribution of power used exclusively for operation of rolling stock or installations used exclusively for signaling and communications purposes.
4. Installations of communications equipment under the exclusive control of communications utilities located outdoors or in building spaces used exclusively for such installations.

5. Installations, including associated lighting, under the exclusive control of electric utilities for the purpose of communications, metering, generation, control, transformation, transmission, or distribution of electric energy. Such installations shall be located in buildings used exclusively by utilities for such purposes; outdoors on property owned or leased by the utility; on or along public highways, streets, roads, etc.; or outdoors on private property by established rights such as easements provided that any such installation is otherwise in accordance law with appropriate consent.

(Ord. 2594C; 12-03-12)

(Ord. 2292C; 02-04-08)

(Ord. 1931C; 01-22-02)

4-304. NATIONAL ELECTRICAL CODE; ARTICLE 110.5. CONDUCTORS. Article 110.5, entitled Conductors is amended to read: **Conductors.** Conductors normally used to carry current shall be of copper.

EXCEPTIONS:

- (a) Service lateral conductors, service entrance conductors, and feeder conductors two AWG and larger in all Group R occupancies (as defined by the most currently adopted Building Code) are allowed to be of any type as allowed by this code.
- (b) Conductors four AWG and larger in all commercial and industrial occupancies other than Group R are allowed to be of any type as allowed by this code.

(Ord. 2594C; 12-03-12)

(Ord. 2560C; 08-06-12)

(Ord. 2292C; 02-04-08)

(Ord. 2166; 05-01-06)

(Ord. 1931C; 01-22-02)

(Code 2000)

(Ord. 1630C; 11-04-96)

4-305.

NATIONAL ELECTRICAL CODE; ARTICLE 210.12 ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION. Article 210.12, entitled Arc-Fault Circuit-Interrupter Protection is amended to read as follows: **Arc-Fault Circuit-Interrupter Protection.**

- (a) **Dwelling Units.** All 120-volt, single phase, 15- and 20- ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed arc-fault circuit interrupter, combination-type, installed to provide protection of the branch circuit. For these purposes, a smoke alarm or carbon monoxide alarm shall not be considered an outlet and is not required to be on an arc-fault circuit.

EXCEPTIONS:

1. If RMC, IMC, EMT, Type MC, or steel armored Type AC cables meeting the requirements of 250.118 and metal outlet and junction boxes are installed for the portion of the branch-circuit between the branch-circuit overcurrent device and the first outlet, it shall be permitted to install an outlet branch-circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch-circuit.
2. Where a listed metal or nonmetallic conduit or tubing is encased in not less than 50 mm (2 in.) of concrete for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet, it shall be permitted to install an outlet branch-circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.
3. Where an individual branch-circuit to a fire alarm system installed in accordance with 760.41(B) or 760.121(B) is installed in RMC, IMC, EMT, or steel-sheathed cable, Type AC or Type MC, meeting the requirements of 250.118, with metal outlet and junction boxes, AFCI protection shall be permitted to be omitted.

- (b) **Branch Circuit Extensions or Modifications – Dwelling Units.** In any of the areas specified in 210.12(A), where branch-circuit wiring is modified, replaced, or extended, the branch-circuit shall be protected by one of the following:

1. A listed combination-type AFCI located at the origin of the branch circuit.
2. A listed outlet branch-circuit type AFCI located at the first receptacle outlet of the existing branch circuit.

EXCEPTION: This section shall not apply where existing dwelling unit premises wiring circuits make the application of this section impracticable as determined by the Building Official.

(Ord. 2594C; 12-03-12)
(Ord. 2292C; 02-04-08)
(Ord. 1931C; 01-22-02)

- 4-306. NATIONAL ELECTRICAL CODE, NEW ARTICLE ADDED.** A new Article 111, Permits, of the National Electrical Code is hereby added to read:
ARTICLE 111. PERMITS.
- 111.1 Work Exempt from Permit.** Work shall be exempt from permit requirements as provided in Article 2 of this Chapter.
- 111.2 Expiration.** Permits shall expire as provided in Article 2 of this Chapter.
- 111.3 Extensions.** The code official is authorized to grant extensions as provided in Article 2 of this Chapter.
- 111.4 Work commencing before permit issuance.** Any person who commences work on an installation before obtaining the necessary permits shall be subject to an additional fee established by the City of Leawood Fee Schedule that shall be in addition to the required permit fees.
- 111.5 Fee Schedule.** The fees for electrical work shall be as indicated in the City of Leawood Fee Schedule.
- 111.6 Fee Refunds.** Unless specifically set forth herein, all fees paid are non-refundable. The code official may authorize refunding of any fee paid hereunder, which was erroneously paid or collected. The code official shall upon request authorize refunding of not more than eighty (80) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code. The code official shall upon request authorize refunding of not more than eighty (80) percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan reviewing is done. The code official shall not authorize refunding of any fee paid except on written application filed by the original permit holder not later than one hundred eighty (180) days after the date of fee payment.
- 111.7 Placement of Permit.** All permits shall be posted to be visible from the street and kept on the site of the work until the completion of the project.
(Ord. 2594C; 12-03-12)
(Ord. 2292C; 02-04-08)
- 4-307. NATIONAL ELECTRICAL CODE, Application for Permit. – Repealed**
(Ord. 2594C; 12-03-12)
(Ord. 2292C; 02-04-08)
- 4-308. NATIONAL ELECTRICAL CODE, Expiration. – Repealed**
(Ord. 2594C; 12-03-12)
(Ord. 2292C; 02-04-08)
- 4-309. NATIONAL ELECTRICAL CODE, Extensions. . – Repealed**
(Ord. 2594C; 12-03-12)
(Ord. 2292C; 02-04-08)

