

**ARTICLE 7.2 ELECTRICAL CODE**

**Section 7.2.1 General Provisions**

(A) **Definitions**: For the purpose of this chapter the following definitions shall apply unless the context clearly indicates or requires a different meaning.

(1) **Electrical Construction**: All work and material used in installing, maintaining, and extending a system of electrical wiring for lights, heat, or power, and all appurtenances thereto; and all apparatus or equipment used in connection therewith, inside of, or attached to any building, lot or premises, done by licensed electricians, public utilities companies, or firms, corporations, or individuals.

(2) **Electrical Contractor**: A person engaging in the business of electrical contracting. The individual in charge of the electrical installations for that person shall have passed the Department of Professional Regulation or the County competency test and registered same with the state or have passed the state certification examination.

(3) **Licensed Sign Electrician**: A person who possesses the necessary qualifications, training, and technical knowledge to plan, build lay out, and supervise the installation of all types of electrical signs.

(B) **Electrical Code Adopted By Reference**: Except as in this chapter otherwise provided, all electrical construction and all material and appliances used in connection with electrical work and the operation of all electrical apparatus within the City shall conform to the rules and regulations of the National Electrical Code, 1999 edition, as recommended and published by the National Fire Protection Association for the installation of wiring and electrical apparatus for electrical purposes, provided that the rules and regulations of the National Electric Code are not in any respect in conflict with the provisions of this chapter, this code, the laws of the State of Florida, or subsequent ordinances and resolutions of the City. If a later edition of this code or subsequent amendments are made the applicable minimum code, then those revisions or amendments shall automatically become the adopted code under this chapter. [Amd. Ord. 5-03 4/15/03]; [Amd. Ord. 21-96 7/9/96]

(C) **Licensed Electrician Permitting Misuse Of Name**: No licensed electrician shall allow his name to be used by any person or party, directly or indirectly, either for the purpose of obtaining a permit or to do any work under his license.

**Section 7.2.2 Permits And Inspections**

(A) **Issuance Of Permits To Licensed Electricians; Exception:** Permits to do electrical work will be issued to licensed electricians only, holding a current Florida State registration or certification and registered with the City of Delray Beach, Florida. **[Amd. Ord. 5-03 4/15/03]; [Amd. Ord. 21-96 7/9/96]**

(1) The plans shall show the outline of the total floor area, the square feet of the building under consideration, the point at which the service connection is to be made with the public utility or isolated plant, or with another building, the size of service and subfeeder wires, the location of service switches and center, or centers, of distribution, and the arrangement of circuits showing the number of outlets connected thereto, together with location and size of all appliances, motors, and space heating units.

(2) The installation of the wiring, apparatus, or equipment for light, heat, or power, within or attached to any building or premises, whether for private or public use, must be done in accordance with the plans and specifications submitted as described in this chapter. **[Amd. Ord. 5-03 4/15/03]**

(3) Any changes or omissions in the wiring system shown on the plans must be made by the owner in the form of a letter setting forth the changes and accepting the responsibilities for the changes. This letter must be addressed to the Building Official or his designee and shall be filed in his office. **[Amd. Ord. 5-03 4/15/03]**

(B) **Final Inspection And Approval; Covering Uninspected Work:** **[Amd. Ord. 5-03 4/15/03]**

(1) It shall be unlawful to lath, seal, or in any manner conceal, any electrical wiring or equipment until the same has been inspected and a notice posted as herewith required. **[Amd. Ord. 5-03 4/15/03]**

(C) **Using Uninspected Apparatus:** It shall be unlawful for any person to use any electrical current in, or through, any wiring apparatus or fixtures for lights, heat, or power in, or on, any building, structure, lot, or premises within the City without having first received written approval from the Chief Building Official or designee to furnish current for that wiring, apparatus, or fixtures. The approval shall be given by the Chief Building Official or designee at any time after the certificate hereinafter provided shall have been issued. **[Amd. Ord. 5-03 4/15/03]**

(D) **Temporary Permission To Furnish Current:** **[Amd. Ord. 5-03 4/15/03]**

(1) The Building Official or his authorized assistants may, before a certificate of final approval is issued, give temporary permission to connect and furnish electric current to any wiring, apparatus, or fixtures for a period of not exceeding 30 days, if in his opinion,

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that wiring, apparatus, or fixtures are in a condition that current may be safely connected therewith, and there exists an urgent necessity for such use, when written application is filed with him requesting permission.

(2) The person or company requesting temporary electrical power shall sign an affidavit stating that it is understood that the service is temporary and may be disconnected upon 48 hour notice at the expiration of the temporary period upon the request of the Building Official. The Building Official may at his option extend the temporary power for an additional 30 day time period. The Building Official shall have the authority to order the power company to disconnect its service wires from any building, structure, lot, or premises when the time period has expired.

### Section 7.2.3 Technical Requirements:

#### (A) Various Services: [Amd. Ord. 5-03 4/15/03]

(1) Approved rigid metal conduit or electrical metallic tubing required for certain types of buildings. Approved galvanized rigid metal conduit, electrical metallic tubing, or approved rigid nonmetallic conduit with metal detector strip shall be required, except as hereinafter provided, for all wires used to conduct current for lights, heat, or power in the wiring of new buildings, the rewiring of old buildings and in installation of new wiring in old buildings, or additions thereto, within the fire limits of the City, as they now are, or may be hereafter established, and in apartment houses to be occupied by three families or more, or where three or more dwelling units are on the same lot; in churches, schools, hotels, theaters, public buildings, commercial buildings, manufacturing establishments, unfinished basements, and all garages of three cars or more, public or private, outside of the fire limits, but within the City limits.

(2) Service wires from the outside of a buildings. Overhead service entrance conductors must be installed in rigid metal conduit or as approved by the Electrical Inspector. Direct buried service is permitted for Florida Power Utility Company. The direct buried service shall be installed and maintained at a minimum depth of not closer than 24 inches to the surface of the ground. This service shall be restricted to single-family and duplex dwellings only. All service shall be installed, operated, and maintained by a public utility company or communication company. No direct buried cable shall be installed under any construction unless in conduit and in conformance with the National Electrical Safety Code. (Exception: aluminum conductors are prohibited). [Amd. Ord. 21-96 7/9/96]

### Section 7.2.4 Radio And Television Antennae:

(A) Permits Required: It shall be unlawful to install or substantially alter any radio or television antenna on the exterior of any building without having first obtained a permit therefore from the Electrical Inspector.

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(B) **Permit Fees**: The fee for permits required by this subchapter shall be \$30 except that reinspections caused by: condemned work; work or corrections not ready for inspection at the time specified in the application for inspections; incorrect address being on the application by action of the applicant shall be subject to a reinspection fee of \$25.

(C) **Installation Specifications**: The following specifications shall apply to all television and radio antenna installations:

(1) Masts and towers shall be of corrosion-resistant material and approved type. When a mast or antenna is installed on a roof, it must be supported on its own platform and securely anchored with guy wires.

(2) Guy wires shall be of corrosion-resistant material and when anchored into masonry, shall be mounted with lead anchors or lead expansion shields.

(3) Transmission lines must be of approved type, and must be kept at all times free from electric and telephone wires and must be so secured that they cannot swing closer than two feet to power lines carrying 250 volts or less, or closer than ten feet to lines carrying over 250 volts.

(4) **Guy Wire Interval**: Guy wires shall be placed at intervals close enough to guarantee support sufficient to withstand hurricane winds.

(5) **Guy Wire Spacing**: Minimum spacing for guy wires shall be as follows:

(a) Two-inch pipe every 20 feet in three directions;

(b) 1-1/2-inch pipe every 15 feet in three directions;

(c) One-inch pipe every ten feet in three directions.

(6) **Grounding**: Every mast or antenna shall be permanently grounded by approved methods.

(7) **Mast Restriction**: No mast for the support of antennas shall be erected within the distance of its height plus six feet of any wires operating in excess of 600 volts, unless the antenna is lower than the wires operative in excess of 600 volts or by written consent of the Building Department.

(D) **Inspection; Correction Of Faulty Installations**: All outside antennas for television receiving apparatus or equipment maintained and in use within the City shall be subject to inspection by the Electrical Inspector, and when the installation of an antenna is found to be in a dangerous or unsafe condition, the person owning, using, or operating the same shall be notified in writing and shall make the necessary repairs or changes required to place such installation in safe condition and have that work completed within 30 days or any longer period specified by the Electrical Inspector in the notice. After completion or

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repairs, the Electrical Inspector shall be notified. The Electrical Inspector will then perform a final inspection to determine that repairs or corrections have been completed. However, in the event subsequent inspections are required, the reinspection fee hereinabove specified shall be paid.

(E) **Enforcement By Electrical Inspector:** Permits for antenna installations shall be obtained from the office of the Electrical Inspector. All installations shall be inspected by the Electrical Inspector.

### **Section 7.2.5 Administration And Enforcement:**

(A) **Authority Of Building Officials And Inspectors:** The Building Official and his authorized assistants shall have the authority to issue permits for, and inspect, all electric wiring, apparatus, or equipment for lights, heat, and power, inside of, or attached to, any building, structure, lot, or premises within the limits of the City, and may enforce the laws, rules, and regulations relating to same, and to exercise a general supervision over all electrical construction.

#### **(B) Inspection Of Unsafe Conditions; Disconnection:**

(1) The Building Official and his authorized assistants are empowered to inspect or reinspect, at his option, all interior or exterior wiring and apparatus, conducting or using electrical current for lights, heat, or power, and when the conductors or apparatus are found to be unsafe to life or property, he shall notify the person owning, using or operating them, to place the same in a safe and secure condition within 48 hours, or within further times as the Inspector shall determine is necessary, after the receipt of the notice, shall be guilty of a violation of this code.

(2) The Building Official and his assistants are given authority to order the power company to disconnect its service wires from any building, structure, lot, or premises, containing any electrical installation which the Electrical Inspector shall consider defective.

(3) The Building Official and his assistants are given the power to disconnect extension cords, temporary wiring, branch circuits, switch feed conductors, or the main service supplying electrical energy to any portion of an electrical wiring system, on or in buildings, or on premises, if this wiring is deemed by the Inspector to be hazardous to life or property.

(C) **Interfering With Enforcement:** It shall be unlawful for any person to hinder or interfere with the City Electrical Inspector or any of his deputies, in the discharge of their duties under this chapter.