



CITY CLERK DEPT.

2016 MAY 10 PM 5:37

Planning & Inspections Department

Mayor
Oscar Leoser

**CITY OF EL PASO, TEXAS
AGENDA ITEM
DEPARTMENT HEAD'S SUMMARY FORM**

City Council

District 1
Peter Svarzbein

District 2
Larry Romero

District 3
Emma Acosta

District 4
Carl L. Robinson

District 5
Dr. Michiel R. Noe

District 6
Claudia Ordaz

District 7
Lily Limón

District 8
Cortney C. Niland

City Manager
Tommy Gonzalez

DEPARTMENT: PLANNING & INSPECTIONS DEPARTMENT

**AGENDA DATE: INTRODUCTION: MAY 17, 2016
PUBLIC HEARING: MAY 31, 2016**

CONTACT PERSON NAME AND PHONE NUMBER:
LARRY F. NICHOLS, (915) 212-1550, nicholslf@elpasotexas.gov
VICTOR MORRISON-VEGA, (915) 212-1553, Morrison-vegavx@elpasotexas.gov

DISTRICT(S) AFFECTED: ALL

SUBJECT:

An Ordinance amending Title 18 (Building & Construction), Chapter 18.02 (Administrative Code), adding provisions for Demolition Permit, Certificates of Use, and Conditional Certificates of Occupancy, Chapter 18.08 (Building Code), 18.10 (Residential Code), 18.12 (Mechanical Code), 18.16 (Electrical Code), 18.20 (Plumbing Code), 18.24 (Gas Code), 18.28 (Existing Building Code), 18.30 (Swimming Pool and Spa Code), 18.50 (Property Maintenance Code), 18.70 (Energy Conservation Code), adopting the 2015 International Building Codes, and the 2014 National Electrical Code, and adopting appropriate local amendments, and amending Title 9, Chapter 9.52, adopting the 2015 International Fire Code, the penalty being as provided in 18.02.111 of the El Paso City Code.

Discussion and action on the following code changes to Title 18 (Building & Construction) of the City Code, as follows:

- a.) An Ordinance amending Title 18 (Building & Construction), Chapter 18.02 (Building and Construction Administrative Code) of the El Paso City Code.
- b.) An Ordinance adopting the 2015 Edition of the International Building Code and amending Title 18 (Building & Construction), Chapter 18.08 (Building Code) of the El Paso City Code to provide for local amendments.
- c.) An Ordinance adopting the 2015 Edition of the International Residential Code and amending Title 18 (Building & Construction), Chapter 18.10 (Residential Code) of the El Paso City Code to provide for local amendments.

Larry F. Nichols – Department Head
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- d.) An Ordinance adopting the 2015 Edition of the International Mechanical Code and amending Title 18 (Building & Construction), Chapter 18.12 (Mechanical Code) of the El Paso City Code to provide for local amendments.
- e.) An Ordinance adopting the 2014 Edition of the National Electrical Code and amending the Title 18 (Building & Construction), Chapter 18.16 (Electrical Code) of the El Paso City Code to provide for local amendments.
- f.) An Ordinance adopting the 2015 Edition of the International Plumbing Code and amending the Title 18 (Building & Construction), Chapter 18.20 (Plumbing Code) of the El Paso City Code to provide for local amendments.
- g.) An Ordinance adopting the 2015 Edition of the International Fuel Gas Code and amending Title 18 (Building & Construction), Chapter 18.24 (Gas Code) of the El Paso City Code to provide for local amendments.
- h.) An Ordinance adopting the 2015 Edition of the International Existing Building Code and amending Title 18 (Building & Construction), Chapter 18.28 (Existing Building Code) of the El Paso City Code to provide for local amendments.
- i.) An Ordinance adopting Title 18 (Building & Construction), Chapter 18.30 (Pool & Spa Code) of the El Paso City Code to provide for local amendments.
- j.) An Ordinance adopting the 2015 Edition of the International Property Maintenance Code and amending Title 18 (Building & Construction), Chapter 18.50 (Property Maintenance Code) of the El Paso City Code to provide for local amendments.
- k.) An Ordinance adopting the 2015 Edition of the International Energy Conservation Code and amending Title 18 (Building & Construction), Chapter 18.70 (Energy Conservation Code) to the El Paso City Code and providing for local aments.
- l.) An Ordinance adopting the 2015 Edition of the International Fire Code and amending Title 9, Chapter 9.52 (Fire Prevention Code) of the El Paso City Code.

Larry F. Nichols – Department Head

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BACKGROUND / DISCUSSION:

The International Code Council has published the 2015 Edition of the International Code Family and local public input and industry input has been taken to assure that the current version of the codes are amended and adopted as appropriate for the City of El Paso. These codes are normally revised on a three-year cycle, and adoption is key to stay abreast of modern developments in building safety and to be consistent with adoption by the State of Texas of certain codes.

PRIOR COUNCIL ACTION:

N/A

AMOUNT AND SOURCE OF FUNDING:

N/A

BOARD / COMMISSION ACTION:

N/A

*******REQUIRED AUTHORIZATION*******

DEPARTMENT HEAD:

(If Department Head Summary Form is initiated by Purchasing, client department should sign also)

Information copy to appropriate Deputy City Manager

2016 MAY 11 PM 1:24

ORDINANCE NO. _____

AN ORDINANCE AMENDING TITLE 18 (BUILDING AND CONSTRUCTION), CHAPTER 18.16 (ELECTRICAL CODE), ADOPTING THE 2014 NATIONAL ELECTRICAL CODE , AND ADOPTING APPROPRIATE LOCAL AMENDMENTS, THE PENALTY BEING AS PROVIDED IN 18.02.111 OF THE EL PASO CITY CODE

WHEREAS, the 2015 Addition of the International Building Codes has been published and adoption of the 2015 International Building Codes are now proposed; and

WHEREAS, the Building Official for the City of El Paso has reviewed and favorably recommends the adoption of the 2015 International Building Codes; together with the local amendments appropriate for the City of El Paso; and

WHEREAS, the City Council has deemed the proposed local amendments appropriate for the City of El Paso;

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

SECTION. That Title 18 (Administrative Code), Chapter 18.16 (Electrical Code) is hereby amended as follows:

Chapter 18.16 - ELECTRICAL CODE

Sections:

18.16.010 - Short title.

This chapter may be cited as the "Electrical Code".

18.16.020 - Adoption.

The book entitled "NFPA 70 National Electrical Code," 2014 Edition, a copy of which authenticated by the City Clerk is on file in the City Clerk's Office is adopted as the Electrical Code of the City, as fully as if copied at length in this chapter, but with the changes set forth in this chapter and Chapter 18.02, the Building and Administrative Code of the City of El Paso.

18.16.030 - Article 80 Evaporative Coolers, added.

NFPA 70 National Electrical Code, 2014 Edition, Article 80 Evaporative Coolers, is hereby added to read as follows:

80.1 Evaporative Coolers. Evaporative cooler shall have their controls mounted in a metal box. Conductors -to the equipment.

80.2 Controls and Operating Mechanisms. In areas required by the Building Code to be accessible to persons with disabilities, the highest operable part of controls, receptacles and other operable equipment shall be placed within at least of one of the reach ranges specified in this section. Electrical and communications receptacles on walls shall be mounted no less than 15 in (380 mm) above the floor to the bottom of the box.

80.3 Forward Reach. If the clear floor space allows only forward approach to an object, the highest operable part of controls, receptacles and other operable equipment shall be placed not more than 48 in (1220 mm) above finished floor to the top of the box.

80.4 Side Reach. If the clear floor space allows only parallel approach to an object, the highest operable part of controls, receptacles and other operable equipment shall be placed not more than 54 in (1370 mm) above finished floor to the top of the box.

18.16.040 - Section 210.70 Lighting Outlets Required (A)(2)(b), amended.

NFPA 70 National Electrical Code, 2014 Edition, Section 210.70 Lighting Outlets Required, (A) Dwelling Units, (2) Additional Locations, (b) is hereby amended to read as follows:

210.70 Lighting Outlets Required, (A) Dwelling Units, (2) Additional Locations (b). For dwelling units, attached garages, and detached garages with electric power, at least one wall switch-controlled lighting outlet shall be installed to provide illumination on the exterior side of outdoor entrances or exits with grade level access. A vehicle door in a garage shall be considered as an outdoor entrance or exit.

18.16.050 - Section 210.70 Lighting Outlets Required (A)(3), added.

NFPA 70 National Electrical Code, 2014 Edition, Section 210.70 Lighting Outlets Required, (A) Dwelling Units, (3) Storage or Equipment Spaces, is hereby amended by adding the following sentence at the end of the paragraph:

210.70 Lighting Outlets Required (A) Dwelling Units (3) Storage or Equipment Spaces. Add: An attic shall be considered storage area if it has either a decked area or permanent access ladder.

18.16.060 - Section 210.71 Additional Outlets, added.

NFPA 70 National Electrical Code, 2014 Edition, Section ,210.70C Additional Outlets, is hereby added to read as follows:

210.70C Additional Outlets. The following receptacle outlets shall be installed, in addition to those required by National Electrical Code, 2009 Edition, Sections 210-50 through 210-70:

(1) On wall areas over work benches, behind bars, serving counters, or other wall spaces where electrical signs or appliances may be used or installed, not less than one (1) receptacle outlet shall be installed for every six (6) feet or major fraction thereof (i.e. the second receptacle outlet shall be located a maximum of (nine) 9 feet from the beginning of the work bench, serving counter or wall space) from the edge measured horizontally along such wall parallel to the floor or ceiling.

(2) In lounges, taverns, bars or other establishments where electrical signs, appliances or similar devices may be placed on or attached to the ceiling, sufficient receptacle outlets shall be installed on the ceilings so that no point on such ceiling is more than twelve (12) feet from a receptacle outlet.

(3) In "mini-warehouse" units or similar storage occupancies designed to be leased or rented individually the following minimum requirements for lights and receptacles shall be provided:

Exterior lighting providing a minimum 2.0 foot-candle illumination at the ground level at the center of the entry door of each unit.

18.16.070 - Section 215.13 Wiring Methods for Feeders 600 Volts or Less, added.

NFPA 70 National Electrical Code, 2014 Edition, Section 215.13 Wiring Methods for Feeders 600 Volts or Less, is hereby added to read as follows:

215.13 Wiring Methods for Feeders 600 Volts or Less.

(a) All occupancies: Feeder conductors shall be installed in accordance with the applicable requirements of this Code covering the type of wiring method used and shall be limited to the following methods:

- (1) Rigid metal conduit
- (2) Intermediate metal conduit
- (3) Electrical metallic tubing
- (4) Busways
- (5) Metal wireways
- (6) Rigid non-metallic conduit
- (7) Mineral insulated, metal sheathed cable
- (8) Surface metal raceways
- (9) Cellular metal raceways
- (10) Cable bus
- (11) Flexible metal conduit only where one of the other methods cannot be reasonably installed and only if equipped with the appropriate size equipment ground conductor
- (12) Electrical non-metallic tubing.
- (13) Metal clad cable
- (14) Armored cable

- (b) All one-family, two-family or multi-family occupancies:
 - (1) All of the wiring methods listed in subparagraph (a) above
 - (2) Underground feeder and branch circuit cable
 - (3) Service entrance cable
 - (4) Non-metallic sheathed cable

18.16.080 --Reserved

18.16.090 - Section 230.28 Service Masts as Supports, amended.

NFPA 70 National Electrical Code, 2014 Edition, Section 230.28, Service Masts as Supports, is hereby amended to read as follows:

230.28. Service Masts as Supports.

- (a) Where a service mast is used for the support of service-drop conductors, it shall be of rigid metal conduit or intermediate metal conduit supported and anchored to safely withstand the strain imposed by the service drop. All mast fittings shall be identified for use with service masts. Only power service-drop conductors shall be permitted to be attached to a service mast.
- (b) All other service masts shall be of rigid metal conduit, intermediate metal conduit, or electrical metallic tubing.
- (c) Service masts shall not extend above the roof more than three (3) feet for dwelling occupancies, nor more than five (5) feet for other occupancies without the prior approval of the building official.

18.16.100 - Section 230.43 Wiring Methods for 1000 Volts, Nominal, or Less, amended.

NFPA 70 National Electrical Code, 2008 Edition, Section 230.43 Wiring Methods for 600 Volts, Nominal, or Less, is hereby amended to read as follows:

230.43 Wiring Methods for 1000 Volts, Nominal, or Less. Service entrance conductors shall be installed in accordance with the applicable requirements of this Code covering the wiring method used and shall be limited to the following wiring methods:

- (a) Rigid metal conduit
- (b) Intermediate metal conduit
- (c) Electrical metallic tubing
- (d) Busways
- (e) Metal wireways
- (f) Metal auxiliary gutters
- (g) Non-metallic rigid conduit for laterals only

- (h) Flexible metal conduit not over 6 ft (1.83 m) long or liquid tight flexible metal conduit not over 6 ft (1.83 m) long between raceways, or between raceway and service equipment, with equipment bonding jumper routed with the flexible metal conduit or the liquid tight flexible metal conduit according to the provisions of Section 250-102(a), (b), (c) and (e)
- (i) Liquid tight flexible nonmetallic conduit.
- (j) Mineral-insulated, metal-sheathed cable.

18.16.110 - Section 230.70 General, (A)(1), amended.

NFPA 70 National Electrical Code, 2014 Edition, Section 230.70 General, (A) Location, (1) Readily Accessible Location, is hereby amended to read as follows:

230.70 General. (A) Location, (1) Readily Accessible Location.

(1) Readily Accessible Location.

(a) Services rated 800 amps or less. A load-break rated meter disconnect shall be installed on the exterior of the building or structure adjacent to and not more than five (5) feet from the meter. The service disconnecting means is allowed to meet this requirement if installed in compliance with this proximity requirement and the requirements of the NEC. If the service disconnecting means is located more than five feet from the meter, a separate and additional load-break rated meter disconnect that meets this proximity requirement is required on the supply (line) side of the service disconnecting means.

(b) Services rated over 800 amps. The service disconnecting means shall be located not more than five (5) feet, measured vertically and horizontally, from the point where the service conductors enter the building or structure.

18.16.120 - Section 230.70.1 "Six Hand Movement", added.

NFPA 70 National Electrical Code, 2014 Edition, Section 230.70.1, "Six Hand Movement", is hereby added to read as follows:

230.70.1 "Six Hand Movement".

"Six Hand Movement" rule will apply to switches or circuit breakers used to disconnect feeders only. A "main" switch or circuit breaker will be required ahead of any branch circuit overcurrent protection.

NFPA 70 National Electrical Code, 2008 Edition, Section 250.8 Connection of Grounding and Bonding Equipment, paragraph (A)(6) is hereby deleted in its entirety.

NFPA 70 National Electrical Code, 2014 Edition, Section 250.8 Connection of Grounding and Bonding Equipment, (B) Methods Not Permitted, is hereby amended to read as follows:

250.8 Connection of Grounding and Bonding Equipment, (B) Methods Not Permitted. (1) Connection devices or fittings that depend solely on solder shall not be used. (2) Sheet metal screws shall not be used to connect grounding conductors or connection devices to enclosures.

NFPA 70 National Electrical Code, 2014 Edition, Section 310.2 Conductors, (B) Conductor Material, is hereby amended to read as follows:

310.2 Conductors, (B) Conductor Material. Conductors in this article shall be of aluminum, copper clad aluminum or copper unless otherwise specified.

Aluminum or copper-clad aluminum conductors shall not be smaller than No. 2 AWG, except a ground conductor which is part of an approved cable assembly shall be not smaller than No. 6 AWG. Aluminum or copper clad conductors shall be used in the connection of stationary or fastened in place equipment. Such branch circuits shall be installed using metal clad cable or other metal raceway. Such conductors shall also be permitted for the connection of accessory structures via overhead cable granted the ampacity of the structure does not exceed the ampacity of the conductor.

18.16.160 - Section 334.10 Uses Permitted (1), (2), (3), (4), (5) amended.

NFPA 70 National Electrical Code, 2014 Edition, Section 334.10 Uses Permitted, items (1), (2), (3) and (4) are amended to read as follows:

334.10 Uses Permitted. Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following:

- (1) One- and two-family dwellings.
- (2) Multifamily dwellings

18.16.165 Securing and Supporting Non- Metallic Sheath Cable, Added

NFPA 70 National Electrical Code, 2014 Edition, Section 334.30 Securing and Supporting non-metallic sheathed cable shall be supported and secured by insulated staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 4.5 feet (1.4mm) and within 12 inches (300 mm) of every outlet box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway.

18.16.170 →Reserved

18.16.180 - Article 382 Nonmetallic Extensions, deleted.

NFPA 70 National Electrical Code, 2014 Edition, Article 382 Nonmetallic Extensions is hereby deleted in its entirety.

18.16.190 - Article 394 Concealed Knob-and-Tube Wiring, deleted.

NFPA 70 National Electrical Code, 2014 Edition, Article 394, concealed Knob-and-Tube Wiring, is hereby deleted in its entirety.

18.16.200 - Article 398 Open Wiring on Insulators, deleted.

NFPA 70 National Electrical Code, 2014 Edition, Article 398, Open Wiring on Insulators is hereby deleted in its entirety.

18.16.210 - Section 404.10 Mounting of Snap Switches, (A) Surface-Type, deleted.

NFPA 70 National Electrical Code, 2014 Edition, Section 404.10 Mounting of Snap Switches, (A) Surface-Type, is hereby deleted in its entirety.

18.16.220 - Section 406.8 Receptacles in Damp or Wet Locations (F) Plastic Bubble Type, added.

NFPA 70 National Electrical Code, 2014 Edition, Section 406.8 Receptacles in Damp or Wet Locations, is hereby amended to add paragraph (F) Plastic Bubble Type, to read as follows:

406.8 Receptacles in Damp or Wet Locations.

(F) "Plastic Bubble Type" in-use covers are not permitted.

18.16.230 - Section 406.8 Receptacles in Damp or Wet Locations (G) Air Condition Equipment, added.

NFPA 70 National Electrical Code, 2014 Edition, Section 406.8 Receptacles in Damp or Wet Locations, is hereby amended to add paragraph (G) Air Condition Equipment, to read as follows:

406.8 Receptacles in Damp or Wet Locations.

(G) Air Condition Equipment.

Receptacles used solely for the maintenance of air condition equipment will not be required to have "In Use" type covers.

18.16.240 - Section 410.36 Means of Support (B) Suspended Ceilings, amended.

NFPA 70 National Electrical Code, 2014 Edition, Section 410.36 Means of Support, (B) Suspended Ceilings, is hereby amended to delete the last sentence as follows:

410.36 Means of Support, (B) Suspended Ceilings, Luminaires installed in suspended ceilings shall be securely attached to building structure from above at appropriate levels

18.16.250 - Section 422.12 Central Heating Equipment, amended.

NFPA 70 National Electrical Code, 2014 Edition, Section 422.12 Central Heating Equipment, is hereby amended to read as follows:

422.12 Central Heating Equipment. Central heating equipment other than fixed electric space-heating equipment shall be supplied by an individual branch circuit.

Exception 1: Auxiliary equipment, such as pump, valve, humidifier, or electrostatic air cleaner directly associated with the heating equipment, shall be permitted to be connected to the same branch circuit.

Exception 2: Evaporative coolers may be supplied by the same individual branch circuit supplying the central heating equipment in residential occupancies only, provided the loads are non-coincidental.

18.16.260 - Section 590.4 General (K) Temporary Service Poles, added.

NFPA 70 National Electrical Code, 2014 Edition, Section 590.4 General, is hereby amended to add paragraph (K) Temporary Service Poles, to read as follows:

590.4 General

(K) Temporary Service Poles.

Temporary service poles shall be a minimum of four (4) inch by four (4) inch treated wood posts, or four (4) inch diameter round treated poles securely imbedded in the earth.

18.16.270 - Section 600.10 Portable or Mobile Signs, deleted.

NFPA 70 National Electrical Code, 2014 Edition, Section 600.10 Portable or Mobile Signs, is hereby deleted in its entirety.

18.16.280 - Section 600.43 Miscellaneous Provisions, added.

NFPA 70 National Electrical Code, 2014 Edition, Section 600.43 Miscellaneous Provisions, is hereby added to read as follows:

600.43 Miscellaneous Provisions.

(A) Sign circuits shall contain a copper grounding conductor deriving from the circuit's supply source; exterior locations shall terminate in a weatherproof box and cover. Taps in metallic raceways shall not be allowed as the grounding means.

(B) All sign installations shall maintain a clearance from adjacent power lines as follows:

Voltage—Line To Ground	H (ft.) Minimum Horizontal Clearance	V (ft.) Minimum Clearance Measured Either Diagonally or Vertically	V (ft.) Over or Under Catwalks Minimum Clearance Measured Either Diagonally or Vertically
Guy Wires and Neutrals	3	3	10.5

0—750 V Supply Cables Meeting Rule 230C2 and 230C3 NESC, 1997	3.5	3.5	11
0—750 V Open Conductors N.E.S.E. Rule 230C2 and 230C3	5.5	6	11.5
750V—22KV	7.5	8	13.5

Notes to table:

1. Signs should never hang over any adjacent power circuits.
2. Voltages are line to ground on a Y-Circuit with multi-ground neutral or between phases on an underground circuit.

18.16.290 - Section 725.41 Class 1 Circuit Classifications and Power Source Requirements (C) Transformers for Class 2 and Class 3 low voltage Circuits, added.

NFPA 70 National Electrical Code, 2014 Edition, Section 725.41 Class 1 Circuit Classifications and Power Source Requirements, is hereby amended to add paragraph (C) Transformers for Class 2 and Class 3 low voltage Circuits, to read as follows:

725.41 Class 1 Circuit Classifications and Power Source Requirements.

(C) Transformers for Class 2 and Class 3 low voltage Circuits.

- (1) Transformers for Class 2 and Class 3 low voltage circuits shall be accessible.
- (2) Transformers for Class 2 and Class 3 low voltage circuits shall be installed in accordance with their listing.

18.16.300 - Errata, adopted.

Errata to the 2014 NEC Code issued by the National Fire Protection Association is hereby adopted and shall become part of this Code.

18.16.310 - Conflicting ordinances.

All ordinances and parts of ordinances in conflict with the provisions of this chapter are hereby repealed as follows: Ordinance No. 014308, 12-14-1999 and Ordinance No. 15900, 09-28-2004.

SECTION 2. That except as herein amended, Title 18 (Building and Construction), Chapter 18.12 (Mechanical Code) of the El Paso City Code shall remain in full force and effect.

PASSED AND APPROVED this _____ day of _____, 2016.

THE CITY OF EL PASO

CITY CLERK DEPT.

2016 MAY 11 PM 1:24

Oscar Leeser, Mayor

ATTEST:

Richarda Duffy Momsen
City Clerk

APPROVED AS TO FORM:

John R. Batoon
Assistant City Attorney

APPROVED AS TO CONTENT:

Larry Nichols, Director
City Development Department