

ORDINANCE NO. 831

AN ORDINANCE OF THE CITY OF CARNATION, WASHINGTON, AMENDING TITLE 16 CMC BUILDING AND CONSTRUCTION; ADOPTING THE 2012 VERSION OF THE STATE BUILDING CODE AND ASSOCIATED TECHNICAL CODES PURSUANT TO CHAPTER 19.27 RCW; ADOPTING APPROPRIATE LOCAL AMENDMENTS THERETO; PROVIDING FOR SEVERABILITY; AND ESTABLISHING AN EFFECTIVE DATE.

WHEREAS, the State of Washington establishes the State Building Code, inclusive of the various technical codes adopted by reference therein, as set forth in Chapter 19.27 RCW; and

WHEREAS, the City Council desires to adopt by reference the current version of the State Building Code and associated technical codes, including appropriate local amendments thereto; NOW, THEREFORE,

THE CITY COUNCIL OF THE CITY OF CARNATION, WASHINGTON, DO
ORDAIN AS FOLLOWS:

Section 1. Amendment of CMC 16.01.010. Section 16.01.010 of the Carnation Municipal Code is hereby amended as follows:

16.01.010 Construction Administrative Code adopted.

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101.2 Scope.

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~~2009~~2012 International Building Code -- WAC 51-50
~~2009~~2012 International Existing Building Code -- WAC 51-50
~~2009~~2012 International Residential Building Code -- WAC 51-51
~~2009~~2012 International Mechanical Code -- WAC 51-52
~~2009~~2012 International Fire Code -- WAC 51-54

~~2009~~2012 National Fuel Gas Code (NFPA 54) -- WAC 51-52
2008~~2011~~ Liquefied Petroleum Gas Code (NFPA 58) -- WAC 51-52
~~2009~~2012 International Fuel Gas Code -- WAC 51-52
2009~~2012~~ Uniform Plumbing Code -- WAC 51-56 and WAC 51-57
2009 ~~Washington State~~2012 International Energy Conservation Code -- WAC 51-11

101.2.1 Definitions.

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12. "Energy code" means the ~~Washington State~~International Energy Conservation Code promulgated by the Washington State Building Code Council, as adopted by this jurisdiction.

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101.5.1.1 International Existing Building Code. ~~Modifications to existing structures shall be permitted to be performed in accordance with WAC 51-50-480000 (The provisions of the International Existing Building Code), as referenced by the State Building Code Council as Appendix M in the International Building Code and as published by the International Code Council, shall apply to the repair, alteration, change of occupancy and relocation of buildings legally existing on the date of adoption of this code.~~

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101.5.8 Energy. The provisions of the ~~Washington State~~International Energy Conservation Code shall apply to all matters governing the design and construction of buildings for energy efficiency.

101.5.9 Electrical. The provisions of the ~~2008~~2011 National Electrical Code (NEC) shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto. Within the City of Carnation, enforcement of the NEC shall fall under the jurisdiction of the State of Washington.

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106.4.1 General. When it is required that documents be prepared by a qualified registered design professional, the Building Official shall be authorized to require the owner to engage and designate on the building permit application a registered design professional who shall act as the registered design professional in responsible charge. If the circumstances require, the owner shall designate a substitute registered design professional in responsible charge who shall perform the duties required of the original registered design professional in responsible charge. The Building Official shall be notified in writing by the owner if the registered design professional in responsible charge is changed or is unable to continue to perform the duties. The registered design professional in responsible charge shall be responsible for reviewing and coordinating submittal documents prepared by others, including phased and deferred submittal items, for compatibility with the design of the building. Where structural observation is required by Section ~~1709~~1704 of the IBC, the statement of special inspections shall name the individual or firms who

are to perform structural observation and describe the stages of construction at which structural observation is to occur (see also duties specified in Section 1704 of the IBC).

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Section 2. Amendment of CMC 16.01.020. Section 16.01.020 of the Carnation

Municipal Code is hereby amended as follows:

16.01.020 International Building Code adopted.

The ~~2009~~2012 edition of the International Building Code, as adopted by the State Building Code Council in Chapter 51-50 WAC, as published by the International Code Council, but excluding Chapter 1 "Administration," is adopted, together with the following amendments.

A. Amend Chapter 11 "Accessibility" to also include ICC A117.1-~~2003~~2009 and Appendix E, pursuant to Chapters 70.92 and 19.27 RCW.

B. Amend Section 1608.1 "General" to read as follows: "Design snow loads shall not be less than 25 psf, and the design roof loads shall not be less than that determined by Section 1607."

~~C. Amend Section 1704.12 Exterior insulation and finish systems (EIFS) as follows: "Special inspections shall be required for all EIFS applications. All exterior insulation finish systems (EIFS) shall be certified by the manufacturer as having been installed per the manufacturer's installation recommendations or other agency approved by the building official. The manufacturer certification shall serve as the special inspection requirement when approved by the Building Official."~~

~~**Exception:** Special inspections shall not be required for EIFS applications installed over masonry or concrete walls.~~

~~D. C.~~ Appendix Chapters E ("Supplementary Accessibility Requirements") and Chapter H ("Signs") are adopted in their entirety.

~~E. D.~~ Appendix Chapter J (Grading) is adopted as amended: The term "city engineer" shall be substituted throughout for the term "building official."

~~F. The 2009 International Existing Building Code (IEBC) is included in the adoption of the IBC as provided by IBC Section 3401.5 and amended in WAC 51-50-480000, excluding Chapter 1, Part 2 Administration. The Construction Administrative Code, as set forth in Section 16.01.010 CMC shall be used in place of IEBC Chapter 1, Part 2 Administration.~~

~~**Exception:** The provisions of this code do not apply to temporary growing structures used solely for the commercial production of horticultural plants including ornamental plants, flowers, vegetables and fruits. "Temporary growing structure" means a structure that has the sides and roof covered with polyethylene, polyvinyl, or similar flexible synthetic material and is used to provide plants with either frost protection or increased heat retention. A temporary growing structure is not considered a building for purposes of this code.~~

~~The provisions of this code do not apply to the construction, alteration or repair of temporary worker housing except as provided by rule adopted under Chapter 70.114A RCW or Chapter 37, Laws of 1998 (SB 6168). "Temporary worker housing" means a place, area or piece of land where sleeping places or housing sites are provided by an employer for his or her employees or by another person, including a temporary worker housing operator, who is providing such~~

accommodations for employees, for temporary, seasonal occupancy, and includes "labor camps" under RCW 70.54.110.

Section 3. Amendment of CMC 16.01.030. Section 16.01.030 of the Carnation

Municipal Code is hereby amended as follows:

16.01.030 International Residential Code adopted.

The ~~2009~~2012 edition of the International Residential Code, as adopted by the State Building Code Council in Chapter 51-51 WAC, as published by the International Code Council, but excluding Chapter 1 "Administration" is adopted, together with Appendix Chapter G "Swimming Pools, Spas and Hot Tubs," and with the following amendments.

1. International Residential Code Table R301.2.1 Climatic and Geographic Design Criteria, as adopted by this chapter, is amended to add a new sub note "m" to read as follows:

m. The climatic and geographic design criteria for the ~~2006~~2012 IRC table 301.2.1 shall be as follows:

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Section 4. Amendment of CMC 16.01.040. Section 16.01.040 of the Carnation

Municipal Code is hereby amended as follows:

16.01.040 International Mechanical Code adopted.

The ~~2009~~2012 edition of the International Mechanical Code, as adopted by the State Building Code Council in Chapter 51-52 WAC, as published by the International Code Council, but excluding Chapter 1 "Administration" is adopted.

Section 5. Amendment of CMC 16.01.050. Section 16.01.050 of the Carnation

Municipal Code is hereby amended as set forth in Exhibit A, attached hereto and incorporated herein by this reference as if set forth in full.

Section 6. Amendment of CMC 16.01.060. Section 16.01.060 of the Carnation

Municipal Code is hereby amended as follows:

16.01.060 National Fuel Gas Code (NFPA 54) adopted.

The ~~2009~~2012 edition of the National Fuel Gas Code, as adopted by the State Building Code Council in Chapter 51-52 WAC, as published by NFPA, is adopted.

Section 7. Amendment of CMC 16.01.070. Section 16.01.070 of the Carnation

Municipal Code is hereby amended as follows:

16.01.070 Liquefied Petroleum Gas Code (NFPA 58) adopted.

The ~~2008-2011~~ edition of the Liquefied Petroleum Gas Code, as adopted by the State Building Code Council in Chapter 51-52 WAC, as published by NFPA, is adopted.

Section 8. Amendment of CMC 16.01.080. Section 16.01.080 of the Carnation

Municipal Code is hereby amended as follows:

16.01.080 International Fuel Gas Code adopted.

The ~~2009~~2012 edition of the International Fuel Gas Code, as adopted by the State Building Code Council in Chapter 51-52 WAC, as published by the International Code Council, but excluding Chapter 1 "Administration," is adopted.

Section 9. Amendment of CMC 16.01.090. Section 16.01.090 of the Carnation

Municipal Code is hereby amended as follows:

16.01.090 Uniform Plumbing Code adopted.

The ~~2009~~2012 edition of the Uniform Plumbing Code, as adopted by the State Building Code Council in Chapters 51-56 and 51-57 WAC, as published by the International Association of Plumbing and Mechanical Officials, but excluding Chapter 1 "Administration," is adopted, together with the following amendments:

1. ~~Amend Chapter 6, table 6.5, deleting "Lawn Sprinkler, each head" from the table.~~
2. ~~Adopt Appendix Chapter A "Recommended Rules for Sizing the Water Supply System".~~
3. ~~2.~~ Adopt Appendix Chapter B "Explanatory Notes on Combination Waste and Vent Systems".
4. ~~3.~~ Adopt Appendix Chapter I "Installation Standards".
5. ~~4.~~ Adopt Appendix Chapter H "Grease Interceptors".
6. ~~5.~~ Adopt Appendix Chapter L "Alternate Plumbing Systems" excluding sections L5 "Vaeuum Drainage Systems" and L6 "Special Venting of Fixtures". Sustainable Practices".

Section 10. Amendment of CMC 16.01.100. Section 16.01.100 of the Carnation

Municipal Code is hereby amended as follows:

16.01.100 ~~Washington State~~International Energy Conservation Code adopted.

The ~~Washington State~~2012 International Energy Conservation Code, as adopted by the State Building Code Council in Chapter 51-11 WAC, is adopted.

Section 11. Copies on File. Pursuant to RCW 35A.13.180 and 35A.12.140, the City shall maintain at least one copy of the technical codes adopted by reference under this ordinance in the office of the City Clerk, and the same shall be made available for public use and examination upon request.

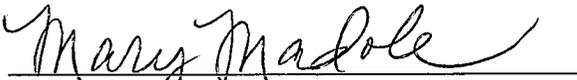
Section 12. Severability. If any section, sentence, clause or phrase of this ordinance should be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, sentence, clause or phrase of this ordinance.

Section 13. Effective Date. This ordinance or a summary thereof consisting of the title shall be published in the official newspaper of the City, and shall take effect and be in full force five (5) days after publication.

APPROVED by the Carnation City Council this 18th day of June, 2013.


MAYOR, JIM BERGER

ATTEST/AUTHENTICATED:


CITY CLERK, MARY MADOLE

FILED WITH THE CITY CLERK:06/12/2013
PASSED BY THE CITY COUNCIL:06/18/2013
PUBLISHED:06/26/2013
EFFECTIVE DATE:.....07/01/2013
ORDINANCE NO.831

Exhibit A

16.01.050 International Fire Code adopted.

The ~~2009~~2012 edition of the International Fire Code, as adopted by the State Building Code Council in Chapter 51-54 WAC, as published by the International Code Council, is adopted together with the following amendments. Further, the following Appendix chapters are specifically adopted: Appendix Chapter B ("Fire Flow Requirements for Buildings"), Appendix Chapter C ("Fire Hydrant Locations and Distribution"), and amended Appendix D ("Fire Apparatus Access Roads"). In the event of any conflict between any provision of the IFC and this chapter, the provisions of this chapter shall apply. New sections or subsections shall be deemed deleted from the IFC and the amended provisions inserted in their place in accordance with the direction of this chapter.

~~IFC Section 104.5 amended. Section 104.5 of the International Fire Code is amended to shall read as follows:~~

~~104.5 Notices and orders. The Fire Code Official is authorized to issue such notices or orders as are required to affect compliance with this code in accordance with the Construction Administrative Code.~~

~~IFC Section 104.1 amended. Section 104.1 of the International Fire Code is amended to read as follows:~~

~~104.1.1 Assistance from other agencies. If the Fire Department of the City of Carnation ever consolidates its Fire Department with any other fire department, the Fire Chief of the consolidated fire department shall be authorized to administer this code. Such authority shall become effective immediately upon consolidation and shall terminate immediately upon dissolution of the consolidated fire department. Such authority shall be subject to review and approval by the City Manager of the City of Carnation.~~

IFC Section 102 amended. Section 102 of the 2012 International Fire Code is amended by the addition of a new Subsection 102.13, entitled "Appeals", and Subsection 102.13.1, entitled "Limitations on authority", to read as follows:

102.13. Appeals. The City of Carnation hearing examiner shall hear and make decisions of appeals of orders, decisions or determinations made by the Fire Official relative to the application and interpretations of this code.

102.13.1. Limitations on authority. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted hereunder have been incorrectly interpreted, the provisions of this code do not fully apply or an equally good or better form of construction is proposed. The hearing examiner shall have no authority to waive requirements of this code.

~~IFC Section 108 deleted. Section 108 of the International Fire Code is deleted in its~~

entirety.

~~IFC Section 903.2~~**IFC Section 104.1 amended.** Section ~~903.2~~104.1 of the 2012 International Fire Code is amended by deleting the section entitled "Where Required" and replacing it with the following:

~~_____ A. _____ Automatic fire extinguishing system. All newly constructed buildings with the exception of single family residences with a gross square footage of 5,000 square feet must be sprinklered. Additions to existing buildings which would result in a gross floor area greater than 5,000 square feet and which exceed 50 percent of the building valuation must be retrofitted with an automatic sprinkler system. Subject to the approval of the Fire Code Official, a phasing plan of up to 5 years is permitted.~~ read as follows:

~~_____ B. _____ Floor area gross. For the purpose of this section, gross floor area shall be defined as the floor area whether above or below grade within the inside perimeter of the exterior walls of the building under consideration, exclusive of vent shafts and courts, without deduction for corridors, stairways, closets, the thickness of the interior walls, columns or other features. The floor area of a building, or portion thereof, not provided with surrounding exterior walls shall be the usable area under the horizontal projection of the roof or floor above. The gross floor area shall not include shafts with no openings or interior courts. For the purposes of this section, fire barriers of any type do not constitute separate buildings.~~

~~_____ C. _____ 104.1.1 Assistance from other agencies. If the Fire Department of the City of Carnation ever consolidates its Fire Department with any other fire department, the Fire Chief of the consolidated fire department shall be authorized to administer this code. Such authority shall become effective immediately upon consolidation and shall terminate immediately upon dissolution of the consolidated fire department. Such authority shall be subject to review and approval by the City Manager of the City of Carnation.~~

IFC Section 104.5 amended. Section 104.5 of the 2012 International Fire Code is amended to read as follows:

104.5 Notices and orders. The Fire Code Official is authorized to issue such notices or orders as are required to affect compliance with this code in accordance with the Construction Administrative Code.

IFC Section 107.5 amended. Section 107.5 of the 2012 International Fire Code is amended to read as follows:

107.5 Overcrowding. Overcrowding or admittance of any person beyond the approved capacity of a building or a portion thereof shall not be allowed. The fire code official, upon finding any overcrowding conditions or obstructions in aisles, passageways or other means of egress, or upon finding any condition which constitutes a life safety hazard,

shall be authorized to direct actions be taken to reduce the overcrowding or to cause the event to be stopped until such condition or obstruction is corrected.

IFC Section 108 deleted. Section 108 of the 2012 International Fire Code is deleted in its entirety.

IFC Section 307 amended. Section 307 of the 2012 International Fire Code is amended by the addition of a new Subsection 307.6, entitled "Sky Lanterns" to read as follows

307.6 Sky Lanterns. Sky Lanterns are airborne paper lanterns similar to a mini hot air balloon, also known as Kongming Lanterns (wish lanterns), which are also referred to as Chinese lanterns, sky candles or fire balloons. As such Sky Lanterns are considered open burning, and are not controlled once they are airborne. The use of Sky Lanterns is prohibited.

IFC Section 308 amended. Section 308 of the 2012 International Fire Code is amended by the addition of new Exception 4 to Subsection 308.3 entitled "Group A occupancies," to read as follows:

4. Where approved by the Fire Code Official.

IFC Section 503 amended. Section 503 of the 2012 International Fire Code, entitled "Fire Apparatus Access Roads" is hereby adopted.

503.2.7 The grade of fire apparatus access roads shall be no more than 15 percent. Access roads may be permitted to exceed 15 percent, with approval of Fire Code Official, providing all buildings are provided with approved fire sprinkler systems.

IFC Section 503.3 amended. Section 503.3 of the 2012 International Fire Code is amended to read as follows:

A. Fire lanes. The Fire Code Official shall establish and designate fire lanes in conformance with the following requirements:

1. All designated fire lanes shall be clearly marked by the property owner in the following manner: Vertical curbs shall be painted 6 inches in height and shall be painted red on the top and side, extending the length of the designated fire lane with 4-inch white block lettering stenciled on the face "NO PARKING -- FIRE LANE". The stenciling shall be spaced every 50 feet. Rolled curbs or surfaces without curbs shall have a red 6-inch-wide stripe painted extending the length of the designated fire lane with 4-inch white block lettering stenciled on the stripe "NO PARKING -- FIRE LANE." The stenciling shall be spaced every 50 feet.

2. Signs may be substituted for curb painting when approved in writing by the Fire Code Official.

3. Signs shall not be less than 18 inches in height by 12 inches in width, with block lettering of not less than 3-inch-high brush stroke, reading: "NO PARKING -- FIRE LANE." Such signs shall be reflective in nature, with red lettering on a white background, and be spaced at intervals of not less than 50 feet apart. The top of such signs shall not be less than 4 feet nor more than 6 feet from the ground. Signs may be placed on buildings when approved in writing

by the Fire Code Official. When posts are required, they shall be constructed of either 2-inch or greater galvanized steel, or 4-inch by 4-inch or greater pressure treated wood.

4. The Fire Code Official may approve deviations from any of the specifications when practical difficulties exist. Requests for deviations must be in writing and shall state the reasons therefore and shall be maintained on file in the fire department's records.

5. Existing signs may be allowed to remain until the Fire Code Official determines that a need for replacement exists based on the illegibility or other deterioration of the existing signs. Such replacement shall occur within 30 days of receiving written notification of the deficiency.

6. Fire lane markings shall be established and maintained as often as required by the Fire Code Official to clearly identify the designated area as a fire lane, at the sole expense of the property owner. The property owner shall have completed the required establishment or maintenance of fire lanes within 30 days of receiving written notification that such is necessary.

7. At the entrance to the property where fire lanes have been designated, signs shall be posted in a clearly conspicuous location, and shall clearly state that vehicles parked in fire lanes may be impounded, and the name, telephone number, and address of the towing firm where the vehicle may be redeemed.

8. The owner, manager, or person in charge of any property upon which any designated fire lane has been established shall be responsible to prevent the parking of vehicles in such fire lanes by informing the appropriate towing company of the violation. If the lane is blocked by any other obstructions, the owner, manager, or person in charge of the property shall attempt to remove the obstruction, and, if unable, shall inform the Fire Department that the obstruction exists.

9. All criminal violations of the International Fire Code and obstruction of a fire apparatus road may be enforced by any regular or reserve police officer of the Police Department.

10. The Fire Code Official shall have the authority to issue notices of violation for violations of the International Fire Code on forms provided by the City for such purposes.

11. Any vehicle or object obstructing a designated fire lane is hereby declared to be an immediate hazard to the public safety, and may be impounded without notice to the owner pursuant to Chapter 46.55 RCW.

—D.— B. Fire Lanes - Penalties.

1. Any person who fails to mark or maintain the marking of or tampers with the marking of a designated fire lane or sign as required by this section, or willfully obstructs or allows the obstruction of a designated fire lane or sign is guilty of a misdemeanor, and shall be subject to a fine not to exceed \$1,000 and/or imprisonment not to exceed 90 days.

2. Except when in compliance with the law or at the direction of a police or fire officer, no person shall stop, stand, or park a vehicle in an area designated "Fire Lane." Violation of this subsection is an infraction and shall be punished by a fine not to exceed \$250.00.

IFC Section 308510 amended. Section 308510 of the 20092012 International Fire Code is amended by the addition of new Exception 4 to Subsection 308.3.7, entitled "Group A occupancies," to read as follows:

4. Where 510.1 Building radio coverage. Except as otherwise provided, no person shall maintain, own, erect, or construct any building or structure or any part thereof, or cause the same to be done which fails to support adequate radio coverage for City emergency services workers, including but not limited to firefighters and police officers.

Exceptions:

1. This section shall not apply to: single family residential buildings; any building constructed of wood frame; or any building thirty-five (35) feet high (as defined by International Building Code) or less as long as none of the aforementioned buildings make primary use of metal or concrete construction or contain below grade storage or parking areas. For purposes of this section, parking structures are included in the definition of building, and stair shafts are included in the definition of all parts of a building, but elevators may be excluded.

2. Buildings constructed prior to the implementation of this section shall not be required to comply with public safety radio coverage provisions of this section. However, should exempted structures undergo renovation, restoration, or significant alteration, exceeding 50% of the building valuation, to the original structure, exemption from the provisions of this requirement shall not apply.

510.1.1 Adequate radio coverage. A minimum signal strength of three (3) micro volts shall be available in 95% of all areas of the building and 99% in elevators (measured at the primary recall floor), stair shafts and Fire Command Centers when transmitted from the Regional 800 MHz. Radio System.

510.1.2 Minimum signal strength. A minimum signal strength of one-half (0.5) micro volts shall be received by the Regional 800 MHz. Radio System when transmitted from 95% of all areas of the building and 99% in elevators (measured at the primary recall floor), stair shafts and Fire Command Centers.

510.1.3 Frequency range. The current frequency range which must be supported shall be 806 MHz. to 824 MHz. and 851 MHz. to 869 MHz. in all areas of the building as described in 510.1.1. The system must be capable to adapt to all frequencies used in the Public Safety Spectrum in the future such as the frequencies between 824 MHz and 851 MHz and the 700 MHz range. Measurements in buildings for the purpose of this ordinance shall be to a portable radio with a half-wave antenna, worn on the belt. The City may designate alternate methods of measuring the signal level, which satisfy appropriate levels of public safety grade coverage.

510.2 Inadequate Radio Coverage. Buildings and structures which cannot support the required level of radio coverage shall be equipped:

1. A radiating cable system; and/or
2. An internal multiple antenna system with FCC certificated bi-directional 800 MHz amplifiers; or
3. Systems otherwise approved by the city radio system manager in order to achieve the required adequate radio coverage.

In the event that a signal booster is employed, it shall be fully encased with a NEMA 4 (or equivalent) dust/waterproof rated enclosure, and filters that reject adjacent frequencies in addition to the multi-band pass filters.

510.3 Battery Backup Required. If any part of the installed system or systems contains an electrically powered component, the installed system or systems shall be provided with an independent battery system capable of operating for a period of at least twenty four (24) hours without external power input. The battery system shall automatically charge in the presence of external power input.

510.4 Supervision/continuing operation. The occurrence of any fault in this radio system where the system function is decreased will result in the transmission of a supervisory signal to the central station. If the system cannot be fully restored within one hour, the fire chief will be notified.

510.5 Proof of compliance. Each owner shall submit at least one field test, or as determined by the Fire Code Official-, whenever structural changes occur to the building that would materially change the original field performance tests by a consultant approved by the Fire Code Official. The performance test shall include at a minimum a floor plan and the signal strength in various locations of the building.

~~IFC Section 503 amended. Section 503 of the 2009 International Fire Code, entitled "Fire Apparatus Access Roads" is hereby adopted.~~

~~The grade of fire apparatus access roads shall be no more than 15 percent. Access roads may be permitted to exceed 15 percent, with approval of Fire Code Official, providing all buildings are provided with approved fire sprinkler systems.~~

510.6 Annual test. It shall be the building owner's responsibility to have all active components of the system, such as amplifiers, power supplies and backup batteries tested a minimum of once every twelve (12) months. Amplifiers shall be tested to ensure that the gain is the same as it was upon initial installation and acceptance. Backup batteries and power supplies shall be tested under load of a period of one hour to verify that they will properly operate during an actual power outage. If, within the one hour test period, and in the opinion of the testing technician, the battery exhibits symptoms of failure, the test shall be extended for additional one-hour periods until the integrity of the battery can be determined. All other active components shall be checked to determine that they are operating within the manufacturer's specification for the intended purpose. A report shall be submitted to the fire code official upon conclusion of the testing and not later than January 30th of each year.

510.7 Five-Year Tests. In addition to the annual test, it shall be the building owner's responsibility to perform a radio coverage test a minimum of once every five (5) years to ensure that the radio system continues to meet the requirements of the original acceptance test. A report shall be submitted to the fire code official upon conclusion of the testing.

510.8 Qualification of Testing Personnel. Personnel conducting radio system tests shall be qualified to perform the work. All tests shall be documented and signed by a person in possession of a current FCC General Radio Telephone Operator License, or a current technician certification issued by the Associated Public Safety Communications Officials International (APCO), the National Association of Business and Education Radio (NABER) or the Personal Communications Industry Association (PCIA).

510.9 Approval prior to installation. No amplification system capable of operating on frequencies used by the Regional 800 MHz. Radio System shall be installed without prior coordination and approval and any such system must meet any standards adopted by the King County Regional Communications Board.

510.10 Acceptance Tests. Acceptance testing for an in-building radio amplification system is required, upon completion of installation. It is the building owner's responsibility to have the radio system tested by qualified personnel to ensure a minimum of 95% two-way coverage on each floor of the building.

Point of Information

510.10.1 A Certificate of Occupancy will not be issued to any structure if the building fails to comply with these provisions. Talk-back testing from a site to the Regional 800 MHz. Radio System shall use a two (2) watt, portable transceiver with speaker/microphone and flexible antenna (or any calibrated device which will produce signal levels useable by the prescribed portable radio). Field strength testing instruments must have been calibrated within one (1) year of the date of the acceptance test. Field strength testing instruments must be of the frequency selective type incorporating a flexible antenna similar to the ones used on the hand held transceivers. The City may designate alternate methods of measuring the signal level, which satisfy appropriate levels of public safety coverage. A report shall be submitted to the City at the conclusion of acceptance testing containing a floor plan and the signal strengths at each location tested and other relevant information. A representative of the City may oversee the acceptance test. Acceptance testing is also required whenever changes occur to the building that would materially change the original field performance test.

510.10.2 Testing Criteria. Each floor of the building shall be divided into a grid of approximately forty (40) equal areas. A maximum of two (2) nonadjacent areas will be allowed to fail the test. In the event that three (3) of the areas fail the test, the floor may be divided into eighty (80) equal areas in order to be more statistically accurate. In such event, a maximum of four (4) nonadjacent areas will be allowed to fail the test. After the eighty (80) area tests, if the system continues to fail, the building owner shall have the system altered to meet the 95% coverage requirement. A spot located approximately in the center of a grid area will be selected for the test, then the radio will be keyed to verify two-way communication to and from the outside of the building through the Regional 800 MHz. Radio System. Once the spot has been selected, prospecting for a better spot within the grid area is not permitted. The gain values of all amplifiers shall be measured and the results kept on file with the building owner so that the measurements can be verified each year during the annual tests. In the event that the measurement results

become lost, the building owner will be required to rerun the acceptance test to reestablish the gain values.

IFC Section 602.1 amended. Section 602.1 of the ~~2009~~2012 International Fire Code is amended by the addition of new definitions for "Power Tap" and "Electrical Code" to read as follows:

~~POWER TAP. A listed device for indoor use consisting of an attachment plug on one end of a flexible cord and two or more receptacles on the opposite end that has overcurrent protection.~~

~~ELECTRICAL CODE. All references in the 2009~~2012 International Fire Code to the ICC Electrical Code shall refer to the National Electrical Code.

IFC Section 901.7 amended. Section 901.7 of the ~~2009~~2012 International Fire Code, entitled "Systems out of service," is amended to read as follows:

901.7 Systems out of Service. Where a fire protection system is out of service, the fire department and the fire code official shall be notified immediately and, where required by the Fire Code Official, the building shall either be evacuated or an approved fire watch shall be provided for all occupants left unprotected by the shut down until the fire protection system has been returned to service.

Where utilized, fire watches shall be provided with at least one approved means for notification of the fire department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires.

IFC Section 903.2 amended. Section 903.2 of the ~~2009~~2012 International Fire Code, entitled "Where required," is amended by deleting the exception thereto in its entirety.

IFC Section 903.2 amended. Section 903.2 of the 2012 International Fire Code is amended by deleting the section entitled "Where Required" and replacing it with the following:

A. Automatic fire-extinguishing system. All newly constructed buildings with the exception of detached single family residences with a gross square footage over 5,000 square feet must be sprinklered. Additions to existing buildings which would result in a gross floor area greater than 5,000 square feet and which exceed 50 percent of the building valuation must be retrofitted with an automatic sprinkler system. Subject to the approval of the Fire Code Official, a phasing plan of up to 5 years is permitted.

B. Floor area gross. For the purpose of this section, gross floor area shall be defined as the floor area whether above or below grade within the inside perimeter of the exterior walls of the building under consideration, exclusive of vent shafts and courts, without deduction for corridors, stairways, closets, the thickness of the interior walls, columns or other features. The floor area of a building, or portion thereof, not provided with surrounding exterior walls shall be the usable area under the horizontal projection of the roof or floor above. The gross floor area shall not include shafts with no openings or interior courts. For the purposes of this section, fire barriers of any type do not constitute separate buildings.

IFC Subsection 903.4.2 amended. Subsection 903.4.2 of the ~~2009~~2012 International Fire Code, entitled "Alarms," is amended to read as follows:

903.4.2 Alarms. Approved audible and visible alarm notification appliances, to meet the American with Disabilities Act, shall be provided for every automatic sprinkler system in accordance with Section 907 and throughout areas designated by the Fire Code Official. Sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Alarm devices shall be provided on the exterior of the building in an approved location. Where a fire alarm system is installed, actuation of the automatic sprinkler system shall actuate the building fire alarm.

Exception: With approval of the Fire Code Official, audible and visible alarm notification appliances may be omitted for approved residential sprinkler systems in 1 or 2 family dwelling units if not otherwise specifically required.

IFC Subsection 903.4.3 amended. Subsection 903.4.3 of the ~~2009~~2012 International Fire Code, entitled "Floor control valves," is amended to read as follows:

Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor.

Exception: When approved by the Fire Code Official in NFPA 13D ~~and NFPA 13 R~~ systems.

IFC Section 905.8 amended. Section 905.8 of the ~~2009~~2012 International Fire Code, entitled "Dry standpipes," is amended to read as follows:

Dry standpipes, when approved by the Fire Code Official, are acceptable in other than high-rise buildings.

IFC Subsection 906.1.1 exception amended. Section 906.1.1 exception of the ~~2009~~2012 International Fire Code, entitled "~~Where~~Portable Fire Extinguishers," is amended to read as follows:

Exception: Group R-2 occupancies are not required, ~~is amended by deleting the exception thereto to provide portable fire extinguishers within each dwelling unit. Fire extinguishers are required in its entirety.~~ common areas and corridors.

IFC Section 907.2 amended. Section 907.2 of the ~~2009~~2012 International Fire Code, entitled "Where required -- new buildings and structures," is amended to read as follows:

An approved manual, automatic, or manual and automatic fire alarm system shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23 or where required by the Fire Code Official. Where automatic sprinkler system protection installed in accordance with Section 903.3.1.1 or 903.3.1.2 is provided and

connected to the building fire alarm system, automatic heat detection required by this section shall not be required.

An approved automatic fire detection system shall be installed in accordance with the provisions of this code and NFPA 72. Devices, combinations of devices, appliances and equipment shall comply with Section 907.1.2, and 907.1.3. The automatic fire detectors shall be smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where, during normal operation, products of combustion are present in sufficient quantity to actuate a smoke detector.

IFC Section 907.156.5 amended. Section 907.15-~~of 6.5~~ of the ~~2009~~2012 International Fire Code is amended by the addition of a new Subsection 907.156.5.1, entitled "Monitoring," to read as follows:

907.156.5.1 Monitoring. When required by the Fire Code Official, all fire detection systems shall be monitored and shall meet the following requirements:

1. The current NFPA Article 72, National Fire alarm Code;
2. The current International Fire and Building Code;
3. The system shall be supervised;
4. All signals from the fire alarm control panel shall be transmitted to an approved central station conforming to UL Standard 827, listed by Underwriters Laboratories and approved by the Fire Code Official;
5. The building owner shall provide the fire department with proof of monitoring service;
6. The installer shall provide written certification to the Fire Department that the system has been installed in accordance with approved plans and specifications; and
7. The system shall have a signed maintenance agreement prior to certificate of occupancy.

IFC Appendix D, Section D106 adopted and amended. Appendix D, Section D106 of the ~~2009~~2012 International Fire Code, entitled "Multiple Family Residential Developments," is adopted and amended to read as follows:

Single family and multiple family residential projects having more than 100 dwelling units shall be equipped throughout with two separate and approved fire apparatus access roads.

Exception: Projects having more than 100 units may have a single approved fire apparatus access road when all buildings, including nonresidential occupancies, are equipped throughout with approved automatic sprinkler systems in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3 of the International Fire Code.