

ORDINANCE # 21

**AN ORDINANCE ADOPTING THE
FIRE PREVENTION CODE
OF THE
BOLES FIRE PROTECTION DISTRICT
OF
FRANKLIN COUNTY, MISSOURI**

AN ORDINANCE REPEALING ORDINANCE NUMBER # 18 AND ENACTING IN LIEU THEREOF A NEW ORDINANCE PRESCRIBING MINIMUM REQUIREMENTS AND CONTROLS TO SAFEGUARD LIFE, PROPERTY OR PUBLIC WELFARE FROM THE HAZARDS OF FIRE AND EXPLOSION: KNOWN AS THE FIRE PREVENTION CODE: PROVIDING FOR THE ISSUANCE OF PERMITS, COLLECTION OF FEES, MAKING OF INSPECTIONS, PROVIDING PENALTIES FOR VIOLATIONS THEREOF:

BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE BOLES FIRE PROTECTION DISTRICT OF FRANKLIN COUNTY, MISSOURI AS FOLLOWS:

SECTION 1 INCONSISTENT ORDINANCE REPEALED

Ordinance number # 18 of the Boles Fire Protection District of Franklin County, Missouri, and all other Ordinances or parts of Ordinances in conflict herewith is hereby repealed.

SECTION 2 ADOPTION OF FIRE PREVENTION CODE

That a certain document, three (3) copies of which are on file in the office of the Code Official of the Boles Fire Protection District of Franklin County, Missouri, being marked and designated as “*ICC International Fire Code,*” 2006 Edition as published by the International Code Council, Inc., together with the standards which are reference in Chapter 45 (pp. 383-390), Appendix B (pp. 393-394), Appendix C (pp. 395), Appendix D (pp. 397-399), Appendix E (pp. 401-406), Appendix F (pp. 407-408), Appendix G (pp. 409-410), and Errata be and is hereby adopted as the Fire Code of the Boles Fire Protection District of Franklin County, Missouri, for control of buildings and structures as herein provided; and each and all of the regulations, provisions, penalties, conditions, and terms of the “*ICC, International Fire Code,*” 2006 Edition, are hereby referred to, adopted and made a part hereof, as if more fully set out in this Ordinance, with the additions, insertions, deletions and changes prescribed in Section 4 of this Ordinance.

SECTION 3 JURISDICTIONAL TITLES

100.1 Wherever “name of jurisdiction” appears in such Code, it shall read “The Boles Fire Protection District of Franklin County, Missouri”.

100.2 “Code Official” wherever it may appear shall be defined as the “Fire Marshal” and/or “Fire Chief of the Boles Fire Protection District of Franklin County, Missouri” or his duly authorized representative.

SECTION 4 AMENDMENTS TO THE ICC INTERNATIONAL FIRE CODE

The following shall be inserted, deleted, or revised in the ICC International Fire Code, 2006 First Edition, as follow:

Chapter 1 Administration

F-101.1 Title (Page 1) Delete and insert the following:

These regulations shall be known as the Fire Code of **Boles Fire Protection District**, hereinafter referred to as “this code”.

F-102.3 Change of Use or Occupancy (Page 1) Delete existing text and insert the following:

Buildings undergoing a change of occupancy or use shall comply with either Chapters 1 through 33 or Chapter 34 of the International Building Code.

F-103.2 Appointment (Page 2) Delete and insert the following:

The Fire Marshal shall be appointed by the **Board of Directors of Boles Fire Protection District**.

F-103.3 Deputies (Page 2) Delete and insert the following:

In accordance with the prescribed procedures of **Boles Fire Protection District**, the Board of Directors shall have the authority to appoint an assistant to the Fire Marshal or such other persons as may be needed to enforce the ordinances of the district. Such employees shall have powers as delegated by the Fire Marshal.

F-104.11.3 Systems and Devices (Page 3) Delete and insert the following:

No person shall render a system or device inoperative during an emergency unless by direction of the Fire Marshal or fire district official in charge of the incident. A vehicle shall not be driven over any unprotected fire hose of the district, without the consent of the Fire Marshal or other officer in command of the operation or area.

F-104.11.4 Compliance with Orders (Page 3) Insert a new sub-section:

A person shall not willfully fail or refuse to comply with any lawful order or direction of the Fire Chief, Fire Marshal, or other Fire Official to interfere with the compliance attempts of another individual.

F-104.11.5 Unlawful Boarding or Tampering with Emergency Equipment (Page 3) Insert the following sub-section:

No person shall, without proper authorization from the Fire Chief or Fire Marshal or other Fire Official in charge of said emergency equipment, cling to, attach himself to, climb upon or into, board or swing upon any emergency vehicle, whether the same is in motion or at rest, or sound the siren, horn, bell or other sound producing device thereon, or manipulate, tamper with, or attempt to manipulate or tamper with any levers, valves, switches, starting devices, brakes, pumps, or any equipment or protective clothing upon or a part of such emergency equipment.

F- 104.12 Rule-Making Authority (Page 3) Add a new section. Insert:

F-104.12 Rule-Making Authority (Page 3) Insert the following:

The code official shall have the authority as necessary in the interest of the public health, safety, and general welfare, to adopt and promulgate rules and regulations to interpret and implement the provisions of this code to secure the intent thereof and to designate requirements applicable because of local climate or other conditions. Such rules shall not have the effect of waving structural or fire performance requirements specifically provided for in this code or of violating accepted engineering practice involving public safety.

F-105.1.2 Types of Permits (Page 3) Delete and add the following:

There shall be two types of permits as follows:

1. Use permit. An operational permit allows the applicant to conduct an operation or a business for which a permit is required by Section F-105.6 for either:
 - 1.1. A prescribed period.
 - 1.2. Until renewed or revoked.
2. Construction permit. A construction permit allows the applicant to install or modify systems and equipment for which a permit is required by Section F105.6.

F-105.3.1 Expiration (Page 4) Delete and insert the following:

A permit for any proposed work shall expire twelve (12) months after the date of issue for all permits unless such work under said permit has been diligently prosecuted. The Fire Marshal may grant an extension for the completion of said work under such permit, which extension of time shall not exceed one (1) year, provided that an approved framing inspection has been made within the first (1) year after the issuance of a Fire Prevention Building Permit. A permit may be re-issued one (1) time. After the permit has been re-issued one (1) time the applicant must reapply for the permit.

F-105.3.2 Extensions (Page 4) Delete in its entirety.

F-105.3.3 Extensions (Page 4) Delete existing text. Insert:

F-105.3.3 Occupancy Prohibited Before Approval (Page 4) Insert the following:

Except as specifically provided for temporary occupancy in the building code listed in Chapter 45, a building, structure or portion thereof, shall not be used or occupied in whole or in part until all fire protection devices and equipment protecting the building, structure or portion to be occupied, have been tested and approved by the code official charged with enforcing this code. All portions of the means of egress for the building, structure or portion to be occupied shall be unobstructed and available for immediate use.

F-105.6.40 Rooftop Heliports (Page 7) Delete in its entirety.

F-105.6.48 Helicopter Hoisting and Lowering Operations (Page 9) Add a new section: Insert:

F-105.6.48 Helicopter Hoisting and Lowering Operations (Page 9) Insert the following:

Approval is required for helicopter hoisting and lowering operations in accordance with the following:

The helicopter service or the contractor in charge of a helicopter hoisting or lowering operations shall demonstrate financial responsibility for damages arising from hoisting or lowering operation by providing the code official with

proof of insurance or other appropriate financial responsibility. Forty-eight hours notice shall be provided before the hoisting or lowering operation is to begin. Notification shall be made to other jurisdiction agencies as may be required.

F-105.6.48.1 Safety Precautions (Page 9) Add a new section.

F-105.6.48.1 Safety Precautions (Page 9) Insert the following:

During all helicopter lifting or lowering operations, the following safety precautions shall be followed:

1. The fire and police departments shall approve landing sites, if landings are necessary.
2. All materials or equipment to be lifted shall be brought as close as possible to the building or structure site by road vehicles.
3. The helicopter shall not carry equipment or materials lifted to or lowered from a building or structure over pedestrians, spectators, or other buildings or vehicles.
4. When the operation involves setting or removing equipment or materials from or on an occupied building, the top two (2) floors of the building shall not be occupied by anyone, other than individuals directly involved with operation while hoisting or lifting operation is in process.
5. All flammable or combustible liquids brought to the site for refueling the helicopters shall be stored, used and dispensed in accordance with chapters 11 and 34 of this code.
6. A fire department safety officer, or fire department safety team, must be present on the site during all helicopter lifting or lowering operations. The safety officer, or safety team, shall terminate the lift if weather conditions or other variables make the operation unsafe. The safety officer, or safety team, shall be provided radio communications with the helicopter pilot in the event safety conditions mandate evasive actions.

F-105.7.3 Compressed Gases (Page 9) Delete and insert the following:

When the compressed gases in use or storage exceed the amounts listed in Table F105.6.8, a construction permit is required to install, repair damage to, abandon, remove, place temporarily out of service or close or substantially modify a compressed gas system.

Exceptions:

1. Routine maintenance.
2. For emergency repair work performed on an emergency basis.

The permit applicant shall apply for approval to close storage, use or handling facilities at least 30 days prior to the termination of the storage, use or handling of compressed or liquefied gases. Such application shall include any change or alteration of the facility closure plan filed pursuant to Section F2701.6.3. The 30-day period is not applicable when approved based on special circumstances requiring such waiver.

F-105.6.8 Hazardous Materials (Page 9) Delete and insert the following:

A construction permit is required to install, repair damage to, abandon, remove, place temporarily out of service or close or substantially modify a storage facility or other area regulated by Chapter 27 when the hazardous materials in use or storage exceed the amounts listed in Table 105.6.21.

Exceptions:

1. Routine maintenance.
2. For emergency repair work performed on an emergency basis.

F-108 Board of Appeals (Page 10) Delete in its entirety and refer to B-112.

F-109.3 Violations Penalties (Page 11) Delete in its entirety and refer to B-113.4

F-111.4 Failure to Comply (Page 12) Delete in its entirety and refer to B-113.4

Chapter 3 General Precautions Against Fire

F-302.1 Definitions (Page 27) Insert the following:

As used herein, the following words and terms shall have the meaning stated below:

- **Recreational Bonfire:** An outdoor fire utilized for ceremonial purposes, fire at school's, organizational pep rally, private social gatherings in backyards, barbecue, and similar events, but does not include the incineration of religious or political symbols
- **Air Curtain Destructor:** Special equipment used to burn large amounts of brush with little or no air pollution. The term Air Curtain Destructor is abbreviated in this code as "ACD".
- **Open Burning:** The burning of any materials wherein products of combustion are emitted directly in to the ambient air without passing through a stack or chimney from an enclosed chamber. For the

purpose of this definition, a chamber shall be regarded as enclosed, when during the time of combustion only, apertures, ducts, stacks, flues, or chimneys necessary to provide combustion air and permit the escape of exhaust gas are open.

F-307 Open Burning and Recreational Fires (Page 28) Delete and insert the following:

F-307.1 General (Page 28) Delete in its entirety and insert the following new section:

No person shall cause or allow open burning unless approved in accordance with the Fire Prevention Code of the Boles Fire Protection District.

F-307.2 Allowable Burning: (Page 28) Delete and insert the following:

Open Burning shall be permitted without prior notification to the Fire Marshal's Office, for highway safety flares, smudge pots, similar occupational requirements, barbecuing, and like activities.

F-307.3 Permit Required: (Page 28) Delete and insert the following:

Open burning shall be permitted, upon obtaining a burning permit from the Fire Marshal's Office, for recognized civil and or cultural events, range or wildlife management practices, prevention or control of disease and pests, land clearing, destruction debris, providing heat for outdoor workers, recreational bonfires, and Air Curtain Destructors (ACD).

F-307.3.1 Application for Burning Permit: (Page 28) Insert the following new section:

An Application for a Burning Permit shall contain the following information: the name of person burning, address, and location of burning, telephone number, date the permits expires, authorized signature and signature of responsible party. Application for an ACD permit must be accompanied with a permit from the **Department of Natural Resources**.

F-307.3.2 Authorization: (Page 28) Insert the following new section:

Open burning shall be permitted after proper authorization is given by the Fire Marshal or his designate. Special permission must be given by the Environmental Protection Agency (EPA)/Department of Natural Resources (DNR), provided that any conditions specified in the permit are as follows:

1. Disposal of Hazardous or Toxic material where the EPA/DNR determines that there is no practical alternative method of disposal.
2. Instruction in methods of fire fighting or for research in control of fires, in emergency or other extraordinary circumstances for any purpose determined to be necessary by EPA/DNR.
3. Disposal of landscape waste except residential and agricultural waste.
4. Recognized agricultural or horticultural management purposes to maintain or increase the quantity or quality of agricultural or horticultural production.

Where the jurisdictional EPA or DNR written permission is not applicable, the Fire Marshal shall give written permission provided that approved fire safety requirements are observed.

F-307.4 Open Burning Prohibited: (Page 29) Delete and insert the following:

The Fire Marshal shall prohibit open burning that will be offensive or objectionable due to smoke or odor emissions when atmospheric conditions or local circumstances make such fires hazardous. The Fire Marshal shall order the extinguishment, by the permit holder or the Fire Protection District, of any open burning when the wind speed is 10 miles per hour or higher and when the humidity is 50 percent or lower, or when the burning creates or adds to a hazardous or objectionable situation.

F-307.5 Permit Fees: (Page 29) Delete in its entirety and insert the following new section:

All permit fees shall be paid to the Boles Fire Protection District of Franklin County, Missouri provided by Section B-108.2, Table B-108.2 "Fees of the District" in this Ordinance.

F-307.6 Location: (Page 29) Insert the following new section:

The location for any open burning shall not be less than fifty (50) feet from a structure, and provisions shall be made to prevent the fire from spreading to within fifty (50) feet of a structure. Fires in approved containers shall be permitted, provided that such fires are not closer than fifty (50) feet to any structure.

F-307.7 Materials: (Page 29) Insert the following new section:

Open burning shall not be utilized for waste disposal purposes, or for the following materials; household trash, rubber, tires, shingles, vinyl siding, treated lumber, or any other petroleum based products. The fuel shall be chosen to minimize the generation of air contaminants.

F-307.8 Attendance: (Page 29) Insert the following new section:

Any open burning shall be constantly attended until the fire is extinguished. A minimum of One (1) Portable Fire Extinguisher with a minimum 4-A rating, Two (2) Portable Fire Extinguishers with a minimum of 2-A rating each, or other approved on-site Fire Extinguishing Equipment, such as dirt, sand, water barrel, garden hose or water truck, shall be available for immediate utilization in the event of an emergency.

F-307.9 Duration of Burning: (Page 29) Insert the following new section:

All burning operations shall be from the hours of 10:00 am to 4:00 p.m.

F-307.10 Season: (Page 29) Insert the following new section:

The burning season shall exist from September 16 through April 14 of each year. Burning season can be extended only if approved by the Department of Natural Resources (DNR)

F-307.11 Recreational Bonfire Size: (Page 29) Insert the following new section:

A Bonfire shall not be more than four (4) feet by (4) feet by four (4) feet in height. The maximum size of a Recreational Bonfire shall not be increased unless the Bonfire is determined to meet other safety requirements to permit such increase.

F-307.11.1 Duration of Bonfire: (Page 29) Insert the following new section:

The duration of a bonfire shall be no greater than six (6) hours.

F-307.11.2 Location: (Page 29) Insert the following new section:

The location for any Recreational Bonfire shall be no less than twenty five (25) feet from a structure, and provisions shall be made to prevent the fire from spreading to within ten (10) feet of a structure. A fire in an approved container shall be permitted, provided that such fire is not less than twenty-five (25) feet from any structure.

F-307.11.3 Material: (Page 29) Insert the following new section:

Fuel for a bonfire shall consist only of untreated wood and may be ignited with a small quantity of paper. The fire shall not be utilized for waste disposal purposes.

F-307.12 Permits: (Page 29) Insert the following new section:

Before a permit can be issued for an ACD (Air Curtain Destructor) a copy of the permit must be submitted from the Department of Natural Resources. All rules noted on the permit must be followed along with the regulations issued by the Department of Natural Resources.

F-307.12.1 Burning Location for ACD'S: (Page 29) Insert the following new section:

The pit should not be any closer than 200 feet from any structure.

F-307.12.2 Pits for Air Curtain Destructor (ACD): (Page 29) Insert the following new section:

The pit dimensions shall be a maximum of eight (8) feet to ten (10) feet in width. The length shall be the same as the blower. Both ends must be blocked off square. The ACD must be angled properly (airflow directed downward at an approximate thirty (30) degree angle while operating). The material being burned shall not be loaded into the pit above the Height of the Airflow. Each pit must be inspected by the Fire Marshal's Office before any burning may occur.

F-307.12.3 Materials: (Page 29) Insert the following new section:

ACD's shall not be utilized for waste disposal purposes, or for the following materials: household trash, rubber, tires, shingles, vinyl siding, treated lumber, leaves and cedar trees or as approved by the Fire Marshal. The fuel shall be chosen to minimize the generation of air contaminants.

F-307.12.4 Closing of Burn Pit: (Page 29) Insert the following new section:

Not later than 4:00 p.m. the burn pit must be covered with a minimum of two (2) feet of fill and packed with heavy equipment being utilized with the burning operation until smoke is no longer visible.

F-307.13 Open-Flame Cooking Devices/Outdoor Wood Burning Appliances: (Page 29) Insert the following new section:

Charcoal burners, other open flame cooking devices and outdoor wood burning appliances, shall not be operated on combustible balconies or within 10 feet of combustible construction.

Exception:

1. One and two family dwellings.
2. Where building and decks are protected by an automatic sprinkler system.

F-307.13.1 Liquefied-Petroleum-Gas –Fueled Cooking Devices: (Page 29) Insert the following new section:

LP-gas burners (barbecued grills) shall not be located on combustible balconies or within 10 feet of combustible construction.

Exception:

1. One and two family dwellings.

F-309.7 Fork Lifts (Page 28) Insert a new sub-section:

Fork lifts powered by a liquid fuel or LP gas are not allowed to be used within a strip center that is occupied by more than one tenant unless approved by the fire official.

Chapter 4 Emergency Planning and Preparedness

F-409.0 Faulty Alarms: (Page 40) Insert a new section:

F-409.1 Definitions: (Page 40) Insert the following new section:

- **Alarm Systems:** Any mechanical or electrical device, which is designed to be actuated manually or automatically upon the detection of fire or smoke in the protected building, structure, facility, or premises thorough the emission of a sound or transmission of a signal or message.
- **False Alarm:** Any activation of an alarm system intentionally or by inadvertence, negligence, or unintentional act to which the Fire Protection District responds, including activation caused by the malfunction of the alarm system, except that the following shall not be considered false alarms.
 - A. When the Fire Marshal determines that the alarm has been caused by the malfunction of the indicators at the alarm-dispatching agency.
 - B. When the Fire Marshal determines that the alarm has been caused by damage, testing, or repairs of the telephone equipment or lines by the telephone company, provided that such incidents are promptly reported to the telephone company.
 - C. When an alarm is intentionally caused by an occupant or resident acting under a reasonable belief that a need exists to call the Fire Protection District.

F-409.2 Condition (Page 40) Insert the following new section:

No person, corporation, firm or other entity owning or occupying any premises within the boundaries of the Boles Fire Protection District, in or on which premises are installed an automatic fire alarm, fire detection, or sprinkler system shall transmit false alarms to any alarm dispatching agency.

F-409.2.1 Tampering (Page 40) Insert the following new section:

It shall be unlawful for any owner or occupant to reduce the effectiveness of the protection so required or so installed; except that the owner or occupant may temporarily reduce or discontinue the protection where necessary to make a test, repairs, alterations, or additions. The owner or occupant shall notify the Fire Marshal prior to such test, repairs, alterations, or additions are to be effected and upon completion of the work, the owner or occupant shall notify the Fire Marshall of the extent of any such work or additional requirements.

F-409.2.2 Notification to District When Out of Service (Page 40) Insert the following new section:

Whenever an alarm is to be out of service for repairs, it shall be the owner's or occupant's responsibility to determine that the serviceman performing such repairs has notified the Boles Fire Protection District of the pending shut-off prior to such action. When an alarm system has Central Station Supervision, the owner or occupant shall have the responsibility to notify the company providing such service of the action.

F-409.2.3 Penalty for Failure to Notify (Page 40) Insert the following new section:

Failure to notify the alarm dispatching organization or the Boles Fire Protection District of a system shut-off and the repairs which result in unnecessary alarm being transmitted to the Boles Fire Protection District, will subject the owner or occupant to a fine of One Hundred Dollars (\$100.00) for each false alarm, in addition to any other penalties this Ordinance may provide.

F-409.3 System in Disrepair (Page 40) Insert the following new section:

Should any such alarm system transmit a false alarm to the Boles Fire Protection District, either directly or through a central dispatching agency, or should inspection of any such alarm system by any officer of the Boles Fire Protection District reveal a condition such that the system is likely to transmit a false alarm, the owner or occupant of the premises shall take such remedial action as is necessary, and shall make or cause to be made such adjustments and repairs to the alarm system as the

Fire Marshal shall order. An order by the Fire Marshal for repairs shall be completed within twenty-four (24) hours after such order has been given.

F-409.4 Service Charges (Page 40) Insert the following new section:

All false alarms to which the Fire Protection District responds shall result in the following service charges to the owner or occupant of the facility in which the alarm system is installed.

F-409.4.1 First False Alarm (Page 40) Insert the following new section:

A warning for the first false alarm in any continuous twelve-month period.

F-409.4.2 Second False Alarm (Page 40) Insert the following new section:

Twenty-five dollars (\$25.00) service charge for the second false alarm in any continuous twelve-month period.

F-409.4.3 Third False Alarm (Page 40) Insert the following new section:

A Fifty dollar (\$50.00) service charge for the third and any subsequent false alarms in any continuous twelve-month period.

F-409.4 Payment (Page 40) Insert the following new section:

Upon determination by the Fire Marshal that a false alarm has occurred, the Fire Protection District shall send a notice of the determination to the alarm user directing the payment of the appropriate service charge, if any, within thirty (30) days.

F-409.5 Cancellation (Page 40) Insert the following new section:

The Fire Protection District may cancel any notice or service charge upon satisfactory proof by the alarm user that a particular alarm incident falls within the exceptions enumerated in the foregoing sections.

F-409.6 Refusal (Page 40) Insert the following new section:

Willful refusal to pay any such charge within thirty (30) days on notice shall constitute a violation of this Ordinance.

F-409.7 Twelve (12) Month - No False Alarms (Page 40) Insert the following new section:

If the owner or occupant of a building continues through a twelve (12) month period without a faulty or false alarm, the owner shall begin at a new faulty or false alarm signal period.

F-409.8 New Systems (Page 40) Insert the following new section:

Newly installed systems shall have Sixty (60) days from the date of system installation to correct any problems that may activate a faulty or false alarm signal.

Chapter 5 Fire Service Features

F-502.1 Definitions (Page 41) Delete Only Fire Apparatus Road and insert the following:

- **Fire Apparatus Road:** A road that provides fire apparatus access. This is a general term inclusive of all other terms such as fire lane, public-street, private street, parking lot lane and access roadway, whether such roadway is paved, graveled, bare ground or other surface.

F-503.1.1 Building and Facilities (Page 41) Delete and insert the following:

Approved fire apparatus access roads shall be provided for each facility, building or portion of a building hereafter constructed or newly occupied within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section. Each structure that exceeds 12,000 square feet that's one story in height with a maximum height of 20 feet or a structure 12,000 square feet or more that has one story below grade shall have a fire apparatus access road, which shall extend around the entire structure.

F-503.1.2.1 Fire Lane (Page 41) Insert a new sub-section:

The Fire Marshal in his discretion based on the structure and type of occupancy may require up to a thirty (30) foot wide surface.

F-503.2.3 Surface (Page 41) Delete and insert the following:

Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be surfaced so as to provide all-weather driving capabilities. This access road must be constructed to carry a minimum load of 75,000 Gross Vehicle Weight. Further requirements found in D102.1.

F-503.2.5 Dead-ends (Page 42) Delete and insert the following:

Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved area for turning around fire apparatus as required in Figure D103.1 and Table D103.4.

F-503.2.6.1 Load Limits (Page 42) Insert a new paragraph:

Bridges or elevated surfaces must be capable of carrying loads of 75,000 GVW.

F-503.2.7 Grade (Page 42) Delete and insert the following:

The grade of the fire apparatus access road shall not be steeper than 12 percent or less as established by the fire official based on the fire departments apparatus and local authority.

F-503.3 Marking (Page 42) Delete and insert the following:

F-503.3 Parking on Fire Apparatus Access Roads (Page 42) Insert a new sub-section:

Parking on Fire apparatus access roads shall be allowed as follows:

1. Fire apparatus roads less than 18 feet 11 inches in width, parking is not allowed on either side of the street.
2. Fire apparatus roads 19 feet to 34 feet 11 inches in width, parking on one side of the street.
3. Fire Apparatus roads 35 feet or greater in width parking allowed on both sides.
4. Fire Apparatus roads and driveways exceeding five hundred (500) feet in length there shall be provided at least one (1) passing or staging area at a location approved by the Fire Marshal. The size of which shall be a minimum of twenty (20) feet in width and forty (40) feet in length. For every additional one thousand (1000) feet of road/driveway from the five hundred (500) feet passing area there shall be an additional passing area.

F-503.3.1 Signs (Page 42) Insert a new sub-section:

Where required by the Fire Marshal, fire apparatus access roads (Fire Lanes) shall be marked with permanent **NO PARKING – FIRE LANE** signs complying with Figure D103.6. Signs shall have a minimum dimension of 12 inches wide by 18 inches high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road (Fire Lane) as required in the following.

1. Fire apparatus roads less than 18 feet 11 inches in width signs are required on both sides of the street.
2. Fire apparatus roads 19 feet to 34 feet 11 inches in width signs required on one side of street.
3. Fire apparatus roads 35 feet or greater in width signs are not required.

F-503.3.2 Location of Signs (Page 42) Insert a new sub-section:

NO PARKING – FIRE LANE Signs shall be located as follows:

1. On the side property line or in the road easement as approved by the fire official.
2. 300 feet spacing between signs or as directed by the fire official.
3. Signs must be mounted on an eight (8) foot post buried in the ground a minimum of two (2) feet.
4. Signs must face towards the traffic. Where the signs are required to change the side of the street there posted on, as required by the Fire Marshal, signs with arrows shall be added showing the starting and stopping of the fire lane.
5. Signs shall be located on the side of the street that fire hydrants are located.

F-503.3.3 Sign Maintenance (Page 42) Insert a new sub-section:

All fire lanes signs and markings shall be maintained in a clear and legible condition. This is the responsibility of the property owner or subdivision governing body.

F-503.4 Obstruction Of Streets Or Fire Apparatus Roads (Page 42) Delete and insert the following:

A person or persons shall not erect, construct, place or maintain any bumps, fences, gates, chains, bars, pipes, wood or metal horses or any other obstructions in or on any street, within the boundaries of the Boles Fire Protection District. The word street, as used in the ordinance, shall mean any roadway accessible to the public for vehicular traffic, including, but not limited to, private streets or access lanes, as well as all public streets and highways within the boundaries of the Boles Fire Protection District without the approval of the Fire Chief or the Directors of the Boles Fire Protection District.

F-503.4.1 Attended Vehicles (Page 42) Insert a new sub-section:

Where a person is discovered placing a vehicle in a fire lane in contravention of these ordinances, that person shall be the responsible party for such violation.

F-503.4.2 Unattended Vehicles (Page 42) Insert a new sub-section:

Where an unattended vehicle is discovered in a Fire Lane contravention of these ordinances; the registered owner of said unattended vehicle shall be responsible party for such violation. An unattended vehicle in a Fire Lane may be ticketed or may be towed from the Fire Lane at owners' expense.

F-503.5 Required Gates And Barricades (Page 42) Delete in its entirety and insert the following:

F-503.5 Required Gates and Barricades (Page 42) Insert the following:

The Board of Directors of the Boles Fire Protection District must approval proposals for gated and or barricade devises obstructing all public or private roads, public or private streets, and or fire service access roads. All proposals must meet the following criteria:

1. **Plans:** Plans, including a plat drawing showing the subdivision, must be filed with the Fire Marshal's office showing:
 - a. The location of the gate(s) to be installed;
 - b. The type of gate(s) to be installed;
 - c. Specifications for motor and quick release;
 - d. Location of the rapid entry switch;
 - e. All entrances to the gated community;
 - f. Type and location of power source.
2. **Set Back:** The gate shall be set at a minimum of 40 feet from the edge of a cross street from which the gated street is accessed.
 - i. Definition:
 - Cross Street: A road that intersects or connects with another road.
3. **Width of Gate:** If one gate is used, the gate must open the full width of the required street or road width. If two (2) gates are used, each gate must open a minimum width of 12 feet or the full width of the street or road if the street or road is less than twenty-four (24) feet in width.
4. **Gate(s):**
 - a. Only the following types of gates shall be approved:
 - i. Gates that swing open horizontally in the direction of vehicle travel;
 - ii. Gates that slide open in a perpendicular to the direction to vehicle travel.
 - b. Gate(s) shall be powered by electricity from the local utility company or by solar power.
 - c. If power is lost to the gate, the gate must be capable of opening with a battery backup system or manually and must be locked in the open position until the power is restored. Any type of battery backup system must be kept fully charged.
 - d. Gate(s) must be equipped with a rapid entry switch, which is approved by the Fire Marshal. The switch must be installed per the manufacturer's and directions and at the direction of the Fire Marshal. If a key is required it shall meet the Boles Fire protection District KNOX Box master key system.
 - e. Gate(s) must be opened with a quick release system that allows the gate(s) to be opened manually.
 - f. The area of the fire apparatus access road measuring sixty (40) feet in both directions from the gate shall be designated as a fire lane and marked by signs in conformity with this code.
 - g. If the gate is found in a non-working condition it shall be locked in the open position.
 - h. Entrance gate(s) must be equipped with a siren-activated opener (SOS). This opener must open the by either electronic or mechanical ("Q") siren.
 - i. A gate opened by a siren-opener (SOS) must remain in the open position for at least (15) MINUTES.
5. **Inclement Weather:** The gate(s) shall be kept open at all times when the fire apparatus access road is covered with snow or ice.
6. **Trustees or Property Management Company:** Property owners and or subdivision governing body to which a gate or barricade would be installed shall provide the district with written notification of any change of trustees or a property Management Company within ten (10) days of any such change.
7. **Inspections:** Authorized service provider must perform a yearly inspection. The subdivision or property Management Company has the responsibility to schedule and ensure completion of this inspection. This inspection must cover all moving parts of the gate(s), power supply, electric and or electronic controls, battery backup, and the general workings of the gate(s). A written copy of the inspection must be submitted to the Fire Marshal within ten (10) days of the inspection. The Fire Marshal shall make a semi-annual inspection.
8. **Petition:** A petition signed by all property owners and spouses must be presented with each application. Each signature must be accompanied by the individual's legibly printed name and address. Each Page of the petition must state the following: "I agree with gate(s) being installed at all entrances of the subdivision; I understand that

when the gate(s) is installed the fire department response can be lengthened by an extended period of time. I further agree not to hold any emergency service responder including but not limited to the Boles Fire Protection District, ambulance district, or law enforcement agency and personnel responsible for damages to persons or property due to additional response time. This agreement shall be considered a covenant running with the land.

F-503.5.1 Secured Gates and Barricades (Page 42) Delete in its entirety.

F-503.5.1.2 Gated Communities (Page 42) Insert a new sub-section:

Gated communities are allowed only after the following items have been met and approved by the **Board of Directors** of Boles Fire Protection District.

1. The subdivision streets do not connect with any other subdivision either by roadways or through an easement giving access to other streets or undeveloped land.
2. In an existing subdivision a petition stating: "I agree with a gate being installed at the entrance to all the streets to the subdivision, I understand that when this gate is installed the fire district response can be lengthened by as much as two additional minutes. I further will not hold the fire district responsible for loss of life or property due to the additional response time." Must be signed by 100% of all residents within the subdivision.
3. **Plans:** Plans, including a plat drawing showing the subdivision, must be filed with the Fire Marshal's office showing:
 - a. The location of the gate(s) to be installed;
 - b. The type of gate(s) to be installed;
 - c. Specifications for motor and quick release;
 - d. Location of the rapid entry switch;
 - e. All entrances to the gated community;
 - f. Type and location of power source.
4. **Set Back:** The gate shall be set at a minimum of 40 feet from the edge of a cross street from which the gated street is accessed.
 - i. **Definition:**
 1. **Cross Street:** A road that intersects or connects with another road.
5. **Width of Gate:** If one gate is used, the gate must open the full width of the required street or road width. If two (2) gates are used, each gate must open a minimum width of 12 feet or the full width of the street or road if the street or road is less than twenty-four (24) feet in width.
6. **Gate(s):**
 - a. Only the following types of gates shall be approved:
 - i. Gates that swing open horizontally in the direction of vehicle travel:
 - ii. Gates that slide open in a perpendicular to the direction to vehicle travel.
 - b. Gate(s) shall be powered by electricity from the local utility company or by solar power.
 - c. If power is lost to the gate, the gate must be capable of opening with a battery backup system or manually and must be locked in the open position until the power is restored. Any type of battery backup system must be kept fully charged.
 - d. Gate(s) must be equipped with a rapid entry switch, which is approved by the Fire Marshal. The switch must be installed per the manufacturer's and directions and at the direction of the Fire Marshal. If a key is required it shall meet the Boles Fire protection District KNOX Box master key system.
 - e. Gate(s) must be opened with a quick release system that allows the gate(s) to be opened manually.
 - f. The area of the fire apparatus access road measuring sixty (40) feet in both directions from the gate shall be designated as a fire lane and marked by signs in conformity with this code.
 - g. If the gate is found in a non-working condition it shall be locked in the open position.
 - h. Entrance gate(s) must be equipped with a siren-activated opener (SOS). This opener must open the by either electronic or mechanical ("Q") siren.
 - i. A gate opened by a siren-opener (SOS) must remain in the open position for at least (15) MINUTES.

F-503.6 Security Gates (Page 42) Delete in its entirety.

F-504.3.1 Roof Access (Page 42) Insert a new sub-section:

All structures with mechanical equipment on the roof must have a ladder access or stairway to the roof. The base of the ladder or stairs must begin at the level of walking surfaces. Hinged guards may be installed and locked in place, over the ladder for security reasons.

F-505.3 Street Name (Page 42) Insert a new sub-section:

Before any private or dedicated street can be named, the Fire Marshal shall be notified of the proposed name, and approved by the Fire Marshal.

F-505.3.1 Street Name Signs (Page 42) Insert a new sub-section:

All street name signs shall be installed prior to the beginning of construction of structures.

F-506 Key Boxes (Page 42) Delete in its entirety and insert the following:

F-506 Mandatory Knox- Boxes (Page 42) Delete in its entirety and insert the following new section:

F-506.1 Knox-Boxes (Page 42) Insert the following new section:

Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the Fire Marshal or designate is authorized to require a Knox Box that is to be installed in an accessible location. The Knox Box shall be of an approved type and shall contain keys to gain access as required by the Fire Marshal.

F-506.1.1 Cost: (Page 43) Insert the following new section:

The cost of purchase, installation and maintenance of the Knox-Box Security System shall be the responsibility of the owner or occupant.

F-506.1.2 Requirements: (Page 43) Insert the following new section:

All owners of such buildings as set out in this section shall provide a Knox Box for ingress of the Boles Fire Protection District.

F-506.1.3 Use Groups: (Page 43) Insert the following new section:

Buildings in all use groups shall be equipped with a Knox-Box. In Group R-3 only if a central alarm system is installed. All gates blocking fire department access shall be equipped with Knox Locks or system.

F-506.1.4 Size: (Page 43) Insert the following new section:

All owners shall install a Knox-Box of adequate size so that all keys needed to gain access to the exterior and interior designated areas (such areas designated for common use and/or all service equipment area) shall be accessible at all times to the Boles Fire Protection District. The owner shall clearly mark all keys within the Lock-Box and shall indicate doors to which such keys belong. In the event that more than one (1) key is within the Lock-Box system, the owner designating the door location and corresponding key tag must provide a floor plan. All tags, marking systems, location, and size of lock-box, shall be at the discretion of and with the approval of the Fire Marshal.

F-506.1.5. Installation: (Page 43) Insert the following new section:

The owner of said building shall install the Knox-Box system as directed in the following:

1. **Recessed mount:** This type of box shall be installed a minimum of 4 to 5 feet above finished grade.
2. **Surfaced mount:** This type of box shall be installed a minimum of 4 to 5 feet above finished grade.
3. **Key Switch:** This switch shall be located as approved by the Fire Marshal.
4. **Residential Box:** This type of box shall be mounted at a location close to the front door or mounted on the front door as approved by the Fire Marshal.
5. **Fire Department Alert Decal:** One decal shall be mounted on each exterior door in the center of the glass or on the doorframe as directed by the Fire Marshal.

F-506.1.6 Key Changes: (Page 43) Insert the following new section:

The owner of said building shall be responsible for any key changes and additions to the plan or plat filed with the Fire Protection District, and it shall be the responsibility of the owner to notify the Fire Marshal, in writing, of any changes or additions required in Knox Box.

F-506.1.7 Records: (Page 43) Insert the following new section:

The Fire Marshal of the Boles Fire Protection District, shall keep and maintain records, in his sole and exclusive possession, regarding the location of such Lock-Box keys, except in the case of an emergency situation, any officer of the Boles Fire Protection District shall be authorized and empowered to keep and maintain or use said records of Knox-Box keys to open the necessary Knox-Box's.

F-506.1.8 Voluntary Participation in the Lock-Box Security Program: (Page 43) Insert the following new section:

F-506.1.8 Voluntary Participation: (Page 43) Insert the following new section:

In the event of any owner of buildings within the Boles Fire Protection District, not specifically required to install a Knox-Box system, is desirous of installing such system, such owner may submit a written request to the Fire Marshal of the Boles Fire Protection District to participate in such security systems set out above. Upon review of such request and acceptance of same by the Fire Marshal, such owner shall comply fully with all the provisions of this Ordinance.

F-508.5.1.1 Public Fire Hydrants (Page 43) Insert the following new section:

Fire hydrants installed shall be located and installed as directed by the Fire Official of the Boles Fire Protection District. All hydrants shall conform to the standards of the Boles Fire Protection District. No fire hydrant shall be installed on a water main less than four inches in diameter. A hydrant installed on 2" main shall be used for flushing purposes only, and shall be color-coded black on the bonnet.

F-508.5.1.2 Applicability (Page 43) Insert the following new section:

Notwithstanding anything to the contrary herein below stated, Section F-508.5 shall apply only where a public water supply is available.

F-508.5.1.3 New Structures (Page 43) Insert the following new section:

No person shall commence construction of any new structure, or building, or addition to any structure or building, or new subdivision, within or upon any real property within the district, unless such person shall first have submitted to the Fire Official a plat or drawing of the property whereon such building, structure, new subdivision, or addition is located, which plat or drawing has indicated thereon the nearest existing fire hydrant, and if there are no existing fire hydrants within such a distance as approved by the Fire Official, then the proposed location of installation of a new fire hydrant or hydrants. The number of fire hydrants to be installed if any shall be installed on no less than a six inch (6") water main. Further, public water systems shall be installed at the commencement of construction and no such construction shall be commenced until the aforementioned plans and specifications are complied with entirely, with such determination of compliance to be in the sole discretion of the Code Official.

F-508.5.1.4 Installation of Other New Fire Hydrants (Page 43) Insert the following new section:

No person shall install or have installed any fire hydrant within the District, unless the manner of installation and location thereof, the design and type of hydrant, including but not limited to the threads and outlets thereof, shall first have been approved by the Code Official.

F-508.5.1.5 New Subdivisions (Page 43) Insert the following new section:

No person shall commence construction of any new building or structure of any kind in any subdivision within the District, unless such person shall have first submit to the Code Official a plot of the aforesaid subdivision, indicating the proposed installation of the fire hydrants within such subdivision, and unless the installation and locations proposed for such fire hydrants, and the number of hydrants, shall be approved by the Code Official. Further, no such construction shall be commenced unless the aforementioned plats and proposals are complied with completely, with such compliance being in the sole discretion of the Code Official.

F-508.5.1.6 Access (Page 43) Insert the following new section:

The commencement of construction of any new subdivision, building, structure, new subdivision, or addition, within the District, shall signify the permission by such person for entry upon such property by the water company, or other water supplier, for the single purpose of installation of any such fire hydrant and water main leading thereto, and further signify permission for the District and members of its staff and equipment to gain access to any fire hydrant, which may be located upon any such subdivision.

F-508.5.1.7 Building Permits (Page 43) Insert the following new section:

The Fire Official of the District shall not approve nor issue building permits for the construction of any new subdivision or new building or structure or addition, so long as the owner thereof shall fail to provide for fire hydrants or to permit access to any land of any subdivision according to the specifications of this section enumerated herein and no such construction of any building shall be commenced before said permit is duly issued by the Code Official.

F-508.5.1.8 Exceptions/Variance (Page 43) Insert the following new section:

If the installation of a fire hydrant is not reasonable and practicable, the applicant may apply to the Board of Directors for an exemption. In determining whether or not the installation of a fire hydrant is reasonable and practicable, many factors are considered including, but not limited to, the degree of fire hazard to the building site and those occupying the building site, the cost of installation of the fire hydrant and the number of individuals who would share the benefits of the fire hydrant. If under the circumstances, the Fire Official determines that the installation of a fire hydrant is not reasonable and practicable, the Fire Marshal shall issue a building permit conditioned upon the applicant otherwise complying with this code and encumbering the land of the proposed building site with covenant to install a fire hydrant at the time when the installation of a fire hydrant would be reasonable and practicable, with such a time to be designated by the Fire Official. On the application of any person, the Board of Directors of the District may grant exception to the requirements of this

section for hydrant installations, where there is no water supply reasonably available for the installations of hydrants.

F-508.5.1.9 Existing Building and Structures (Page 43) Insert the following new section:

Upon inspection of any building or structure within the District, and if the Fire Marshal of the District shall find it necessary that a fire hydrant be installed, and that there is an available water supply upon which can be mounted one or more fire hydrants, then the Fire Marshal may hand deliver, or send by mail, notice to the owner of any such building or structure, specifying a time within which the owner shall install one or more fire hydrants, as the Fire Marshal may determine are necessary to adequate fire fighting and fire safety. If the owner shall fail to cause such installation to begin within thirty (30) days following the receipt of such notice, or if the owner shall cause or shall permit such installation to be delayed or shall not proceed with said installation with due diligence in the installation of any and all fire hydrants as ordered by the Fire Official, then the Fire Marshal may revoke the occupancy and use permits of such building or structure until such fire hydrant(s) are installed and in proper working order. Such revocation shall be in the sole discretion of the Fire Marshal. Upon application of any owner, the Board of Directors of the District may extend time for completion of installation of any hydrant(s), upon proof by the owner that the proper installation of any and all fire hydrants will be faithfully executed.

F-508.5.1.10 Fire Hydrant Placement (Page 43) Insert the following new section:

Hydrants shall be placed and color-coded as follows:

F-508.5.1.11 Color Coding Of Public and Private Fire Hydrants (Page 43) Insert the following new section:

All public and private fire hydrant barrels are to be painted yellow. All fire hydrant bonnets are to be painted as follows:

COLOR	WATER GPM
Blue	1500 or greater
Green	1000 to 1499
Orange	500 to 999
Red	Less than 500

F-508.5.1.12 Obstructions (Page 43) Insert the following new section:

There shall be no obstructions including the planting of bushes or trees, or the installation of signs, light standards, etc., within six (6) feet of any fire hydrant in all directions.

F-508.5.1.13 Single Family Residential (Page 43) Insert the following new section:

In use groups R-3 and R-4 single-family residential developments, fire hydrant spacing shall not exceed six hundred (600) feet, hydrant to hydrant, or as special site conditions may require in the sole discretion of the Fire Official. (Local conditions may be such that this distance may vary as much as 100 feet in either direction.)

F-508.5.1.14 Multi-Family Residential (Page 43) Insert the following new section:

In use groups R-2 multi-family residential developments, fire hydrant spacing shall not exceed four hundred (400) feet, hydrant to hydrant, or as special site conditions may require in the sole discretion of the Fire Official. (Local conditions may be such that this distance may vary as much as 100 feet in either direction.)

F-508.5.1.15 High Hazard Development (Page 43) Insert the following new section:

In use group H, high hazard developments, fire hydrant spacing shall not exceed three hundred (300) feet, hydrant to hydrant, or as special site conditions may require in the sole discretion of the Fire Official. (Local conditions may be such that this distance may vary as much as 100 feet in either direction.)

F-508.5.1.16 Other Use Groups (Page 43) Insert the following new section:

In all other groups, fire hydrant spacing shall not exceed four hundred (400) feet, hydrant to hydrant, or as special site conditions may dictate in the sole discretion of the Fire Official. (Local conditions may be such that this distance may vary as much as 100 feet in either direction.)

F-508.5.1.17 Areas to Be Provided With Fire Hydrants (Page 43) Insert the following new section:

Fire hydrant and water mains shall be placed along the full length of the property to be developed that abuts an existing and/or a proposed improved public way. Variances may be required by the water agency because of water quality considerations.

F-508.5.1.18 Fire Hydrant Spacing (Page 43) Insert the following new section:

Spacing of fire hydrants along a public way shall be regulated by the use group classification of the development that abuts the existing and/or proposed public way.

F-508.5.1.19 Private Fire Hydrants (Page 43) Insert the following new section:

Where a development, other than use group R-3 or R-4, is greater than one hundred fifty (150) feet from an existing and/or proposed improved public way, measured along the drivable access, additional private fire hydrants shall be required on said developed property, private street, and/or parking lots, at a spacing between fire hydrants as required by that use group as set forth herein above.

F-508.5.1.20 No Parking Area At Fire Hydrant (Page 43) Insert the following new section:

Where fire hydrants are required to be installed in areas where vehicles would be parked or standing, said vehicle parking shall be restricted for ten (10) feet in each direction from the fire hydrant to the center of the public or private passageway.

F-508.5.1.21 Unacceptable Locations For Fire Hydrants (Page 43) Insert the following new section:

The following locations for hydrants are not acceptable:

- A. Within twenty-five feet (25') of an intersection or cross street
- B. Within a cul-de-sac, eye-brow or within fifty feet (50') of either such construction; and,
- C. At any location where the fire hydrant could be damaged by vehicular traffic.

F-508.5.1.22 Required Locations (Page 43) Insert the following new section:

A fire hydrant must be placed within 100 feet of the entrance of a subdivision. All fire hydrants must be located on the side property line or as permitted by the Fire Official.

F-508.5.1.23 Fire Department Connections (Page 43) Insert the following new section:

F-508.5.1.24 No Parking Areas at Fire Department Connections (Page 43) Insert the following new section:

When fire department connections are located in an area where vehicles may be parked or standing, said vehicles shall be restricted for ten feet (10') in each direction from the fire department connection.

F-508.5.1.25 Fire Hydrant to Fire Department Connection (Page 43) Insert the following new section:

There shall be a fire hydrant within one hundred fifty (150) feet of any fire department connection.

F- 508.5.5 Clear Space Around Hydrants (Page 43) Delete in its entirety.

Chapter 6 Building Services and Systems

F-603.1.1 Manufacturer's Instructions (Page 45) Delete and insert the following:

The installation shall be made in accordance with the manufacturer's instructions and applicable federal, state, and local rules and regulations.

F-603.1.3 Electrical Wiring and Equipment (Page 46) Delete and insert the following:

Electrical wiring and equipment used in connection with oil-burning equipment shall be installed and maintained in accordance with Section 605 and the current NFPA 70 National Electrical Code.

F-603.1.7 Clearances (Page 46) Delete and insert the following:

Working clearances between oil-fired appliances and electrical panel boards and equipment shall be in accordance with the current NFPA 70 National Electrical Code. Clearances between oil-fired equipment and oil supply tanks shall be in accordance with NFPA 31.

F-603.5.2 Heating Appliance Installation (Page 46) Delete and insert the following:

Heating appliances shall be installed in accordance with the manufactures instructions, the International Building Code, the International Mechanical Code, and the current NFPA 70 National Electrical Code.

F-603.8 Incinerators (Page 47) Delete and insert the following:

Commercial, industrial and residential type incinerators and chimneys shall be constructed in accordance with the International Building Code, the International Mechanical Code, International Fuel Gas Code, Local Code, and State and Federal Regulations.

F-604.1 Installation (Page 47) Delete and insert the following:

Emergency and standby power systems shall be installed in accordance with the current NFPA 70 National Electrical Code, NFPA 110 and NFPA 111. Existing installations shall be maintained in accordance with the original approval.

F-604.2.9 Membrane Structures (Page 47) Delete and insert the following:

Emergency power shall be provided for exit signs in temporary tents, permanent tents and membrane structures in accordance with Section 2403.12.6.1. Standby power shall be provided for auxiliary inflation systems in permanent membrane structure in accordance with the International Building Code.

F-604.2.16.1.2 Pick-Up Time (Page 48) Delete and insert the following:

The emergency power system shall pick-up its connected loads within 10 seconds of failure of the normal power supply.

F-604.3.2 Written Record (Page 49) Delete and insert the following:

Written records of the inspection, testing and maintenance of emergency and standby power systems shall include the date of service, name of the servicing technician, a summary of conditions noted and a detailed description of any conditions requiring correction and what corrective action was taken. Such records shall be kept on the premises served by the emergency or standby power system and a copy sent to the Fire Official.

F-605.1 Abatement Of Electrical Hazards (Page 49) Delete and insert the following:

Identified electrical hazards shall be abated. Identified hazardous electrical conditions in permanent wiring shall be brought to the attention of the fire official responsible for enforcement of the current NFPA 70 National Electrical Code. Electrical wiring, devices, appliances and other equipment that is modified or damaged and constitutes an electrical shock or fire hazard shall not be used.

F-605.3 Working Space And Clearance (Page 49) Delete and insert the following:

A working space of not less than 30 inches in width, 36 inches in depth and 78 inches in height shall be provided in front of electrical service equipment. Where the electrical service equipment is wider than 30 inches, the working space shall not be less than the width of the equipment. No storage of any materials shall be located within the designated working space including sump pump pits.

Exceptions:

1. Where other dimensions are required or allowed by the current NFPA 70 National Electrical Code.
2. Access openings into attics or under-floor areas, which provide a minimum clear opening of 22 ½ inches by 30 inches.

F-605.4 Multi-Plug Adapters (Page 50) Delete and insert the following:

Multi-plug adapters, such as cube adapters, un-fused plug strips or any other device not complying with the current NFPA 70 National Electrical Code shall be prohibited.

F-605.9 Temporary Wiring (Page 50) Delete and insert the following:

Temporary wiring for electrical power and lighting installations is allowed for a period not to exceed 90 days. Temporary wiring methods shall meet the applicable provisions of the current NFPA 70 National Electrical Code.

F- 606 Mechanical Refrigeration (Page 50) Delete in its entirety.

F- 607.4 Elevator Emergency Operations Testing (Page 50) Add a new section.

F- 607.4 Elevator Emergency Operations Testing (Page 50) Insert the following new section:

All elevators that are equipped with emergency elevator operations in accordance with rule 211.3 of ASME A17.1 listed in Chapter 45 shall be tested at least once each year in all phases of emergency functions. An approved elevator service company shall conduct the tests.

F-609.7 Makeup Air (Page 51) Delete and insert the following :(Not in the 2006 IFC)

Makeup air shall be supplied during the operations of commercial kitchen exhaust systems that are provided for commercial food heat-processing appliances. The amount of makeup air supplied shall be approximately equal to the amount of exhaust air. The makeup air shall not reduce the effectiveness of the exhaust system. Makeup air shall be provided by gravity or

mechanical means or both. The make-up air shall automatically shut off at the time of discharge of the fire extinguishing systems.

Chapter 8 Interior Finish, Decorative Materials and Furnishings

F-806.1.1 Restricted Occupancies (Page 61) Delete and insert the following:

Natural cut trees shall be prohibited in all occupancies except R-3 Use Groups.

Chapter 9 Fire Protection Systems

F-901.6.2 Records (Page 65) Delete in its entirety and insert the following:

F-901.6.2 Records (Page 65) Insert the following new section:

Records of all system inspections, test, and maintenance required by the referenced standards shall be maintained on the premises for a minimum of three (3) year or for the required testing frequency if greater that three (3) years and shall be made available to the code official upon request. Accurate logs shall be maintained indicating the number, location and type of device tested. Any defect, modification or repair shall be logged.

F-903.1.3 Post Indicator Valves (Page 69) Insert a new sub-section:

All sprinkler systems, except limited area sprinkler systems, shall be approved with a post indicator valve that shall control the water supply to all automatic fire sprinkler systems in the building.

F-904.2.2 Stove Top Protection (Page 74) Add a new section and insert the following:

Any type of permanently installed stove top with burners, being used in a commercial building, shall be protected with an automatic fire-extinguishing system.

F-904.11.7 Safety Requirements (Page 76) Add a new section insert:

F-904.11.7 Safety Requirements (Page 76) Add a new section insert the following:

Where persons will be exposed to an alternative automatic fire extinguishing system discharge, warning signs and discharge alarms shall be provided.

F-904.11.8 (Page 78) Add a new section insert the following:

F-904.11.8 Acceptance Tests (Page 78) Insert the following new section:

All alternative automatic fire extinguishing systems shall be tested in accordance with this section. A complete system shall be tested by a discharge of expellant gas through the piping and nozzles. Observations for gas leakage and for continuity of piping with free unobstructed flow shall be made. Observations shall be made of the flow of expellant gas through all nozzles. The identification of devices with proper designations and instructions shall be checked. All dry-chemical and wet-chemical extinguishing systems shall also be tested by a discharge of the approved testing agent or extinguishing agent as per the manufacturer of the system. Discharge quantities shall be in accordance with the manufacture's installation information manual. After testing, all piping and nozzles shall be blown clean using compressed air or nitrogen, and the system shall be properly charged and placed in the normal "set" condition.

F-905.3.4.1 Hose And Cabinets (Page 77) Delete in its entirety.

F-905.5 Class I System 1-Inch Hose (Page 78) Delete in entirety.

F-907.2.1 Group A Exception (Page 81) Delete the exception in its entirety.

F-907.2.2 Group B Exception (Page 81) Delete the exception in its entirety.

F-907.2.3 Group E (Page 81) Delete exception 3 in its entirety.

F-907.2.4 Group F Exception (Page 82) Delete the exception in its entirety.

F-907.2.7 Group M Exception 2 (Page 83) Delete the exception in its entirety.

F-907.2.10.1.1 Group R-1 (Page 84) Delete and insert the following:

Single-or multiple-station smoke alarms shall be installed in all of the following locations in

Group R-1:

1. In sleeping areas.
2. In every room in the path of the means of egress from the sleeping area to the door leading from the guestroom or suite.
3. In each story with the guestroom or suite including basements.

F-907.2.10.1.2 Groups R-2, R-3, R-4 and I-1 (Page 84) Delete the location and insert the following:

1. Outside of each sleeping area on the ceiling or wall and within ten (10) feet of each bedroom door.
2. Within each room used for sleeping purposes. Where sleeping rooms ceilings slope is greater than one (1) foot rise in eight (8) foot rise horizontal, the upper edge of the smoke detector shall be located within 12 inches of the highest point of the ceiling.
3. In each story within a dwelling unit, including basement and cellars but not including crawl spaces and uninhabitable attics.
4. Additional smoke alarms may be required by the Fire Marshal, due to additional walls or ventilation system being added.

F-907.15 Monitoring (Page 89) Delete in its entirety. Insert:

F-907.15 Monitoring (Page 89) Insert the following:

All fire alarm and detection systems shall be monitored by an approved central station as defined in NFPA 72.

Exception: Supervisory service is not required for:

1. Automatic sprinkler systems in one- and two-family dwellings.

Chapter 10 Means of Egress

F-1003.8 Egress Through Intervening Spaces (Page 105) Add a new section, Insert the following:

Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas are accessory to the area served; are not high-hazard occupancy; and provide a demarcated minimum 44-inch wide aisle to an exit. A maximum of one exit access shall be permitted to pass through a kitchen, storeroom, restroom, closet or similar space provided that passage through such space is not the only means of access to an exit. An exit access shall not pass through a room subject to locking. Means of egress from dwelling units, or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms. Means of egress are not prohibited through adjoining or intervening rooms or spaces in Group H occupancy when the adjoining or intervening rooms or spaces are the same or lesser hazard occupancy group.

F-1004.3 Post of Occupant (Page 105) Delete and insert the following:

Every room or space that is an assembly or educational occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit, or exit access doorway from the room or space. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or authorized agent.

F-1008.1.8.3 Locks and Latches (Page 113) Delete and insert the following:

Egress doors shall be readily open-able from the egress side without the use of a key or special knowledge or effort.

Exceptions:

1. Places of detention or restraint.
2. Existing locks can remain with the approval of the Fire Marshal.
3. Where egress doors are used in pairs, approved automatic flush bolts shall be permitted to be used, provided that the door leaf having the automatic flush bolts has no doorknob or surface mounted hardware. The unlatching or any leaf shall not require more than one operation.
4. Doors from individual dwelling units and guestrooms of Group R occupancies having an occupant load of 10 or less are permitted to be equipped with a night latch, dead bolt or security chain, provided such devices are open able from the inside without the use of a key or tool.

F-1008.1.8.4 Bolt Locks (Page 113) Delete and insert the following:

Manually operated flush bolts or surface bolts are not permitted.

Exceptions:

1. On doors not required for egress in individual dwelling units.
2. Where a pair of doors serves a storage or equipment room, manually operated edge or surface-mounted bolts are permitted on the inactive leaf.
3. Existing building's that have flush bolts or surface bolts are permitted with the approval of Fire Marshal.

F-1008.1.8.7 Stairway Doors (Page 114) Delete and insert the following:

Interior stairway means of egress doors shall be open able from both sides without the use of a key or special knowledge or effort. Refer to F-506.1.3

Exceptions:

1. Stairway discharge doors shall be opened from the egress side and shall only be locked from the opposite side.

2. This section shall not apply to doors arranged in accordance with the International Building Code.
3. In stairways serving not more than four stories, doors are permitted to be locked from the side opposite the egress side, provided they are open able from the opposite side with a key provided in the Knox Box.

F-1008.2.2 Educational Uses (Page 114) Insert the following:

School grounds are permitted to be fenced and gates therein are permitted to be equipped with locks, provided that safe dispersal areas based on 3 square feet per occupant are located between the school and the fence. Such required safe dispersal areas shall not be located less than 50 feet from school buildings. See Section 1005 for means of egress from safe dispersal areas. See Knox Box requirements F-506.1.3

[B] SECTION EMERGENCY ESCAPE AND RESCUE

F-1026.1 General (Page 135) Delete and insert the following:

In addition to the means of egress required by this chapter, provisions shall be made for emergency escape and rescue in Group R as applicable in Section F-1001.1 and group I-1 occupancies. Basements and sleeping rooms below the fourth story shall have at least one exterior emergency escape and rescue opening in accordance with this section. Such opening shall open directly into a public street, public alley, yard, or court.

Exceptions:

1. In other than Group R-3 occupancies as applicable in Section F-1001.1, buildings equipped throughout with an approved automatic sprinkler system in accordance with Section F- 903.3.1.1 or F-903.3.1.2
2. In other than Group R-3 occupancies as applicable in Section F-1001.1, sleeping rooms provided with a door to a fire-resistance-rated corridor having access to two remote exits in opposite directions.
3. The emergency escape and rescue opening is permitted to open onto a balcony within an atrium in accordance with the requirements of Section F-404 of the International Building Code provided the balcony provides access to an exit and the dwelling unit or sleeping room has a means of egress which is not open to the atrium.

F-1026.6 Maintenance (Page 136) Add a new section as follows, Insert the following:

F-1026.6 Maintenance (Page 136) Insert the following:

The means of egress from each part of the structure, including exits, stairways, egress doors and panic hardware installed thereon, aisles, corridors, passageways and similar elements of the means of egress, shall at all times be maintained in a safe condition and available for immediate utilization and free of all obstructions. Security devices affecting the means of egress shall be approved.

F-1026.22 Firefighter Assist Plans (Page 135) Add a new section.

F-1026.22 Firefighter Assist Plans (Page 135) Insert the following:

An approved pictographic display (sign, drawing or wall marking) shall be posted within all enclosed stairways at each floor landing in all new and existing multi-story buildings. Individual displays, or signs shall show the floor level number where the graphic is displayed, the configuration of exit access corridors including all door openings, exit stairways, elevators, exterior building walls, fire alarm pull stations, fire hoses and sprinkler valves. The sign shall be located 5 feet above the floor landing in a position that is readily visible when the doors are in the open or closed positions.

Chapter 11 Aviation Facilities

F-1106.3.4 Protection Of Electrical Equipment (Page 145) Delete and insert the following:

Electric wiring, switches, lights and other sources of ignition, when located in a compartment housing piping, pumps, air eliminators, water separators, hose reels or similar equipment shall be enclosed in a vapor-tight housing. Electrical motors located in such a compartment shall be of a type approved for use as specified in the current NFPA 70 National Electrical Code.

Chapter 12 Dry Cleaning

F-1204.2.3 Electrical Wiring And Equipment (Page 151) Delete and insert the following:

Electrical wiring and equipment in dry cleaning rooms or other locations subject to flammable vapors shall be installed in accordance with the current NFPA 70 National Electrical Code.

Chapter 14 Fire Safety During Construction And Demolition

F-1404.7 Electrical (Page 157) Delete and insert the following:

Temporary wiring for electrical power and lighting installations used in connection with the construction, alteration or demolition of buildings, structures, equipment or similar activities shall comply with the current NFPA 70 National Electrical Code.

Chapter 15 Flammable Finishes

F-1503.2.1 Electrical Wiring and Equipment (Page 162) Delete and insert the following:

Electrical wiring and equipment shall comply with this chapter and the current NFPA 70 National Electrical Code. Electrical wiring and equipment located in resin application areas shall be in accordance with the current NFPA 70 National Electrical Code. Electrical wiring and equipment that is subject to deposits of combustible residues shall be listed for such exposure and shall be installed as required for hazardous (classified) locations.

F-1503.2.1.1 Spray Spaces and Vapor Areas (Page 162) Delete and insert the following:

Electrical wiring and equipment in spray spaces and vapor areas shall be of an explosion-proof type approved for use in such hazardous locations. Such areas shall be considered to be Class I, Division 1, or Class II, Division I hazardous locations in accordance with the current NFPA 70 National Electrical Code.

F-1503.2.1.4 Areas Subject To Over Spray Deposits (Page 162) Delete and insert the following:

Electrical equipment in spraying areas located such that deposits of combustible residues could readily accumulate thereon shall be specifically approved for locations containing deposits of readily ignitable residue and explosive vapors in accordance with the current NFPA 70 National Electrical Code

Exceptions:

1. Wiring in rigid conduit.
2. Boxes or fittings not containing taps, splices, or terminal connections.
3. Equipment allowed by Sections 1504 and 1506 and Chapter 21

F-1503.2.1.5 Flexible Power Cords (Page 162) Delete and inserts the following:

The use of the flexible power cords shall be in accordance with the current NFPA National Electrical Code.

F-1503.2.5 Grounding (Page 162) Metal parts of spray booths, exhaust ducts and piping systems conveying Class I or Class II liquids shall be electrically grounded in accordance with the current NFPA 70 National Electrical Code.

F-1504.6.1.2.2 Portable Infrared Apparatus (Page 165) Delete and insert the following:

When portable infrared drying apparatus is used, electrical wiring and portable infrared drying equipment shall comply with the current NFPA 70 National Electrical Code. Electrical equipment located within 18 inches (457 mm) of floor level shall be approved for Class I, Division 2 hazardous locations. Metallic parts of drying apparatus shall be electrically bonded and grounded. During spraying operations, portable drying apparatus and electrical connections and wiring thereto shall not be located within spray booths, spray rooms or other areas where spray residue would be deposited thereon.

F-1504.9.4 Electrical Wiring (Page 167) Electrical wiring within 10 feet (3048 mm) of the floor and 20 feet (6096 mm) horizontally of the limited spraying space shall be designed for Class I, Division 2 locations in accordance with the current NFPA 70 National Electrical Code.

Chapter 16 Fruit and Crop Ripening

F-1604.5 Heating (Page 173) Delete and insert the following:

Heating shall be indirect means utilizing low-pressure steam, hot water, or warm air.

Exception:

Electric or fuel-fired heaters approved for use in hazardous (Classified) location which are installed and operated in accordance with the applicable provisions of the current NFPA 70 National Electrical Code.

Chapter 17 Fumigation and Thermal Insecticidal Fogging

F-1703.2.1 Electricity (Page 175) Delete and insert the following:

Electricity shall be shut off.

Exception: Circulating fans that have been specifically designed for utilization in hazardous atmospheres and installed in accordance with the current NFPA 70 National Electrical Code.

Chapter 18 Semiconductor Fabrication Facilities

F-1803.7.2 Workstations (Page 178) Delete and insert the following:

Electrical equipment and devices within 5 feet (1524 mm) of workstations in which flammable or pyrophoric gases or flammable liquids are used shall comply with the current NFPA 70 National Electrical Code for Class I, Division 2 hazardous locations. Workstations shall not be energized without adequate exhaust ventilation in accordance with Section 1803.14.

Exception:

Class I, Division 2 hazardous electrical equipment is not required when the air removal from the workstation or dilution will prevent the accumulation of flammable vapors and fumes on a continuous basis.

F-1803.7.3 Hazardous Production Material (Hpm) Rooms, Gas Rooms, And Liquid Storage Rooms (Page 178) Delete and insert the following:

Electrical wiring and equipment in HPM rooms, gas rooms, and liquid storage rooms shall comply with the current NFPA 70 National Electrical Code.

Chapter 19 Lumber Yards and Woodworking Facilities

F-1903.4 Electrical Equipment (Page 187) Delete and insert the following:

Electrical wiring and equipment shall comply with the current NFPA 70 National Electrical Code.

Chapter 20 Manufacture of Organic Coatings

F-2004.1 Wiring And Equipment (Page 191) Delete and insert the following:

Electrical wiring and equipment shall comply with this chapter and shall be installed in accordance with the current NFPA 70 National Electrical Code.

Chapter 22 Motor Fuel-Dispensing Facilities And Repair Garages

F-2201.5 Electrical (Page 183) Delete and insert the following:

Electrical wiring and equipment shall be suitable for the locations in which they are installed and shall comply with Section F-605, NFPA 30A and the current NFPA 70 National Electrical Code.

F-2204.3 Unattended Self-Service Stations (Page 198) Delete in its entirety and insert the following:

F-2204.3 Unattended Self-Service Stations Unattended self-service stations shall comply with Sections F-2204.3.1 through F-2204.3.9.

F-2204.3.8 Emergency Controls (Page 198) Add a new section:

Emergency controls shall be provided in accordance with NFPA 30A listed in Chapter 45. Emergency controls shall be installed in an approved location, more than twenty feet (6.1 m), but not more than 100 feet (30.5 m) from the dispensers. Additional emergency controls shall be installed on each group of dispensers or the outdoor equipment used to control the dispensers. Emergency controls shall shut off power to all dispensing devices at the station. Controls shall be manually reset only in an approved manner.

F-2204.3.8.1 Main Emergency Control (Page 198) Insert the following new section:

The main emergency control shall be a manual fire alarm station that will provide the emergency control function and transmit an alarm to an approved central-station system.

F-2204.3.9 Fire Suppression System (Page 198) Insert the following new section:

The dispensing area (pump islands, canopy and adjacent ground area) shall be provided with an approved fire suppression system in accordance with the building code listed in Chapter 45.

F-2208.8.1.2.4 Grounding and Bonding (Page 205) Delete and insert the following:

The structure or appurtenance used for supporting the cylinder shall be grounded in accordance with the current NFPA 70 National Electrical Code. The cylinder valve shall be bonded prior to the commencement of venting operations.

F-2211.2.3 Drainage and Disposal Of Liquids And Oil-Soaked Waste (Page 211) Delete in its entirety.

F-2211.3 Sources of Ignition. (Page 211) Delete and insert the following:

Sources of ignition shall not be located within 18 inches (457 mm) of the floor and shall comply with Chapters 3 and 26. Appliances and equipment installed in a repair garage shall comply with the provisions of the current NFPA 70 National Electrical Code.

Chapter 24 Tents, Canopies and Other Membrane Structures

F-2403.12.6.1 Exit Sign Illumination (Page 227) Delete and insert the following:

Exit signs shall be of an approved self-luminous type or shall be internally or externally illuminated by fixtures supplied in the following manner:

1. Two separate circuits, one of which shall be separate from all other circuits, for occupant loads of 300 or less; or

2. Two separate sources of power, one of which shall be an approved emergency system, shall be provided when the occupant load exceeds 300. Emergency systems shall be supplied from storage batteries or the on-site-generator set, and the system shall be installed in accordance with the current NFPA 70 National Electrical Code.

Exception:

Temporary structure (less than 180 days) does not require exit illumination.

F-2403.12.7 Means Of Egress Illumination (Page 227) Delete and insert the following:

Fixtures required for means of egress illumination shall be supplied from a separate circuit or source of power.

F-2404.15.7 Electrical Heating and Cooking Equipment (Page 228) Delete and insert the following:

Electrical cooking and heating equipment shall comply with the current NFPA 70 National Electrical Code.

Chapter 26 Welding and Other Hot Work

F-2606.4 Emergency Disconnect (Page 235) Delete and insert the following:

A switch or circuit breaker shall be provided so that fixed electric welders and control equipment can be disconnected from the supply circuit. The disconnect shall be installed in accordance with the current NFPA 70 National Electrical Code.

Chapter 27 Hazardous Materials General Provisions

F-2703.7.3 Industrial Trucks (Page 249) Delete and insert the following:

Powered industrial trucks used in areas designated as hazardous (classified) locations in accordance with the current NFPA 70 National Electrical Code shall be listed and labeled for use in the environment intended in accordance with NFPA 505.

Sections F-2703.5.2 Hazardous Signals Required (Page 249) Add a new section.

F-2703.5.2 Hazardous Signals Required (Page 249) Insert the following:

Any occupancy required by this code and/or state law to provide material safety data sheets, shall provide visible markings on the outside of buildings, rooms and containers where hazardous substances are present. These markings shall be in a location approved by the code official. These markings shall conform to the NFPA 704 marking system or with other federal laws or regulations, or in the case of containers, may as an option comply with Safety and Health Administration Hazard Communication Rule, 29 CFR 1910.1200(f). To avoid duplication of markings, marking requirements of the United States Department of Transportation shall satisfy the requirements in regard to motor vehicles, rolling stock and aircraft.

F-2703.5.3 Main Entrance (Page 249) Add a new section.

F-2703.5.3 Main Entrance (Page 249) Insert the following new section:

Where required by Section F-2703.5, all buildings shall have a placard located on the main entry door a minimum of 18" from the bottom edge of the door. This placard shall have a minimum dimension of 5". This placard is not to be lettered or numbered.

F- 2703.5.4 Other Doors (Page 249) Add a new section.

F-2703.5.4 Other Doors (Page 249) Insert the following new section:

All other doors shall have a placard with a minimum dimension of 10" located in an approve location that identifies the worst hazard category of the product(s) in that area. This placard shall be provided with numerals in accordance with section F-2703.5.5.

F-2703.5.5 Signal Size (Page 249) Add a new section.

F-2703.5.5 Signal Size (Page 249) Insert the following new section:

The exterior markings of buildings or site entrances where materials are stored shall have a minimum signal size of 4". All numbers shall be reflective.

F-2703.8.6.1 Construction (Page 251) Delete and insert the following:

The interior of cabinets shall be treated, coated, or constructed of material that are non-reactive with the hazardous material stored. Such treatment, coating or construction shall include the entire interior of the cabinet. Cabinets shall either be listed in accordance with UL 1275 as suitable for the intended storage or constructed in accordance with the following:

1. Cabinets shall be of steel having a thickness of not less than 0.0478 inch (1.2 mm) (No. 18 gage). The cabinet, including the door, shall be double walled within 1.5-inch (38-mm) airspace between the walls. Joints shall be riveted or welded and shall be tight fitting. Doors shall be well fitted, self closing and equipped with a self-latching device.

2. The bottoms of cabinets utilized for the storage of liquids shall be liquid tight to a minimum height of 2 inches (51 mm).

Electrical equipment and devices within cabinets used for the storage of hazardous gases or liquids shall be in accordance with the current NFPA 70 National Electrical Code.

F-2703.9.4 Electrical Wiring and Equipment (Page 252) Delete and insert the following:

Electrical wiring and equipment shall be installed and maintained in accordance with the current NFPA 70 National Electrical Code.

Chapter 30 Compressed Gases

F-3003.7.6 Heating (Page 273) Delete and insert the following:

Compressed gas containers, cylinders and tanks, whether full or partially full, shall not be heated by devices, which could raise the surface temperature of the container, cylinder or tank to above 125 degrees F (52 degrees C). Heating devices shall comply with the International Mechanical Code and the current NFPA 70 National Electrical Code. Approved heating methods involving temperatures of less than 125 degrees F (52 degrees C) are allowed to be used by trained personnel. Devices designed to tanks at constant temperature shall be approved and shall be designed to be fail-safe.

F-3003.8 Wiring And Equipment (Page 273) Delete and insert the following:

Electrical wiring and equipment shall comply with the current NFPA 70 National Electric Code. Compressed gas containers, cylinders, tanks, and systems shall not be located where they could become part of an electrical circuit. Compressed gas containers, cylinders, tanks, and systems shall not be used for electrical grounding.

Chapter 32 Cryogenic Fluids

F-3203.7 Electrical Wiring And Equipment (Page 281) Delete and insert the following:

Electrical wiring and equipment shall comply with the current NFPA 70 National Electric Code and Sections F-3203.7.1 and F-3203.7.2.

F-3203.7.2 Electrical Grounding And Bonding (Page 281) Delete and insert the following:

Containers and systems shall not be used for electrical grounding. When electrical grounding and bonding is required, the system shall comply with the current NFPA 70 National Electric Code. The grounding system shall be protected against corrosion, including corrosion caused by stray electric currents.

Chapter 33 Explosive and Fireworks

F-3301.2.3.1 Permit Requirements (Page 285) Insert a new sub-section:

Application for such permit to possess, store, stock, use or hold for sale those items not prohibited as stated in F-3301.3 shall contain the following information:

1. Name of Applicant
2. Address of Applicant
3. Place and Name of Business
4. Name of responsible person.
5. Certification Number
6. Location of blasting site
7. Name of Insurance Co. and proof of insurance
8. If for storage, amount of each kind of explosives, blasting agents or blasting caps applicant intends to stock or store at any one time and the location and type of construction of magazine or storage place of same.
9. Emergency contact number, day, or night.
10. Type of agents.
11. Distance to closest structure.
12. Pre blast survey

F-3301.2.3.2 Permit Shall Be Granted When (Page 285) Insert a new sub-section:

A person shall be entitled a permit to store, stock or use explosives, or blasting agents in the district who has met the following requirements:

1. File an application as provided in F-3301.2.3.1
2. Secured whatever construction, occupancy, or other permits which each applicant may otherwise be required by law to obtain.
3. Obtain the proper storage facility for storage of such explosives as the same may be required by this chapter.

F-3301.2.4 Financial Responsibility (Page 285) Delete and insert the following:

In addition to the above information, the following shall be required and attached to the application for a permit a certificate of liability insurance in the minimum amount of one million dollars (\$1,000,000.00) for injury to persons and property resulting from the blasting operations. Such insurance shall be carried in a form of corporation, which has been duly licensed or permitted to carry on such business, in the State of Missouri and shall be kept and maintained continuously in force and effect for the duration of the blasting permit.

F-3301.2.4.2 Fireworks Display (Page 286) Delete and insert the following:

The permit holder shall furnish a bond or certificate of insurance in the amount of \$1,000,000.00 dollars for the payment of all potential damages to a person or persons or to property by reason of the permitted display, and arising from any acts of the permit holder, the agent, employees, or subcontractors.

F-3301.4 Qualifications (Page 286) Delete and insert the following:

Persons in charge of magazines, blasting, fireworks display or pyrotechnic special effect operations shall not be under the influence of alcohol or drugs which impair sensory or motor skills, shall be at least 21 years of age, and shall demonstrate knowledge of all safety precautions related to the storage, handling or use of explosives, explosive materials or fireworks. Any person requesting a blasting permit must be licensed with the State of Missouri.

F-3301.8.1.1.1 Limits Of Storage (Page 286) Add new section:

The limits for the storage of explosives and blasting agents shall be the limits established by the Franklin County, Missouri Zoning Ordinances.

F-3302.1 Definitions (Page 288) Insert the following to this section:

- **Scaled Distance:** Shall mean the actual distance (in feet) to the nearest structure, divided by the square root of the maximum explosive weight (in pounds) per millisecond (or greater) delay. If delay intervals less than 8 milliseconds are employed or if instantaneous blasting is employed, scaled distance shall be computed by dividing the actual distance (in feet) by the square root of the total explosive weight in pounds.
- **Uncontrolled Structures:** shall mean any building not owned or controlled by the explosive user.
- **Controlled Structure:** is defined as any structure that is owned or controlled by the explosive user.

F-3303.7.1 Explosives Delivered To Site (Page 291) Insert a new sub-section:

Excessively large amounts of explosives shall not be delivered to the loading area at one time. If deliveries of explosives are made by truck, the quantity permitted at or near the loading operation shall be limited to one truckload. Other trucks loaded with explosives shall wait or be unloaded in separate safe place away from the loading operations.

F-3303.7.2 Caps (Page 291) Insert a new sub-section:

Caps shall be brought to the loading area not attached to detonating fuse until all is in readiness for the blast.

F-3303.8 Blasting Records (Page 291) Insert a new sub-section:

A blasting record known as a log shall be kept on the site of any blasting operation. This log shall be made available to the Fire Marshal or his authorized agents on demand. This record shall be maintained available for inspection for a period of one (1) year after such blasting operations are completed.

F-3303.9 Falsification (Page 291) Insert a new sub-section:

Any falsification alteration or misrepresentation of any records of blasting operations will be cause for suspension or revocation of blasting permit as well as other penalty provisions of this Ordinance.

F-3303.10 Permit For Storage (Page 291) Insert a new sub-section:

Permits to store explosives or blasting agents shall expire at the expiration of twelve (12) months from date of issuance, or when location of magazine is changed.

F-3303.11 Permit To Blast (Page 291) Insert a new sub-section:

Permit to blast shall expire on the date specified on the permit issued by the Fire Marshal, but may be extended by the Fire Marshal.

F-3303.12 Suspension (Page 291) Insert a new sub-section:

All permits issued pursuant to this Ordinance may be suspended by the Fire Marshal for good cause shown.

F-3307.3 Blasting In Congested Areas (Page 302) Delete and insert the following:

When blasting is done in a congested area or in close proximity to a structure, railway, or highway, or any other installations, precautions shall be taken to minimize earth vibrations and air blast effects. Blasting matting (which may include earth) shall be required when blasting operations / or geological conditions create fly rock that could damage or injure persons or property, or at the decision of the Fire Marshal.

F-3307.3.1 Feet To Roadway (Page 302) Insert a new sub-section as follows:

When the point of explosion is within three hundred and fifty (350) feet of a roadway, the responsible person shall, just prior to the blast, designate a sufficient number of employees of the operation, each carrying a red warning flag, to stop all vehicular and pedestrian traffic on each possible route of travel within three hundred fifty (350) feet of the point of explosion until the blast has been fired or at a distance required by the Fire Marshal, which ever is greater.

F-3307.3.2 Sounding Of Horn: (Page 302) Insert a new sub-section as follows:

The sounding of a horn shall be required when any blasting is being done. The horn or horns shall be sounded two (2) minutes prior to the blast or as required by the Fire Marshal. The distance that the horn must be heard shall be a minimum of 1,000 feet except further distances may be required by the Fire Marshal. The sound of the horn must be a distinctive sound different than other horns used in the area. The length of the horn sounding shall be thirty seconds, 2 minutes prior to the blast.

F-3307.4 Restricted Hours (Page 302) insert a new sub-section as follows:

It shall be unlawful for any person to explode, or cause to be exploded, any gunpowder, dynamite, giant powder, cotton gun, or other explosives as herein defined for any purpose during the hours of 5:00 p.m. to 10:00 a.m., except that a special permit to use explosives during the hours of 5:00 p.m. to 10:00 a.m. may be issued by the Fire Marshal when the Fire Marshal determines that conditions beyond the control of the person seeking a special permit, prevents such person from using explosives during normally permitted hours. Special permission must be granted before any blasting operations are conducted on either Saturday or Sunday. This can only be given by the fire marshal.

F-3307.1.16 Air Blast: (Page 302) Insert a new section:

Air blast shall be controlled so that it does not exceed the maximum limits specified below at any uncontrolled structure:

1.

LOWER FREQUENCY LIMITS OF MEASURING SYSTEM, HZ+3DB	MAXIMUM LEVEL IN DB LEVEL IN DB
0.1Hz or lower- flat response	134 peak
2 Hz or lower- flat response	133 peak
6 Hz or lower- flat response	129 peak
C-weighted- slow response	105 peak DBC

2. All measuring systems used shall have a flat frequency response of at least 200 Hz at upper end.
3. Those permitted persons may satisfy the provisions of this section by meeting any of the four (4) specifications herein or this section; provided however, the 0.1 Hz or lower flat response or C-weighted slow response can only be used if approved by the Fire Marshal.

F-3307.17 Vibrations (Page 302) Insert a new sub-section as follows:

1. **Ground Vibrations:** In all blasting operations, except as hereinafter otherwise provided, the maximum peak particle velocity of any one of the three mutually perpendicular Components of the ground motion in the vertical and horizontal directions shall not exceed two (2) inches per second. Less than two (2) inches per second can be required from the Fire Marshal at any time during term of permit. When blasting operations are contemplated which result in ground vibrations that would have a particle velocity of any of three (3) mutually perpendicular components in excess or two (2) inches per second, blasting operations may proceed after receiving written consent from the property owner or owners affected and the Fire Marshal.
2. **Instrumentation:** Instrumentation shall be required in good operating condition and be properly calibrated with current (within one year of date of use) calibration, sticker affixed to each instrument. If an instrument is found to be not operating properly or out of calibration, blasting operations shall be halted until the appropriate repairs or re-calibration are performed or a proper instrument is provided. Seismograph operator shall be trained in the use of that instrument.
3. **Seismograph:** Seismograph shall be required on all blast sites. The Seismograph shall be placed at or near the closest uncontrolled structure.

4. **Reading Daily:** The Fire Marshal may require a written report of the daily seismograph reading.
5. **Pre-blast Survey:** All property owners within 500 feet of a blasting site shall be notified by certified mail that blasting operations will be taking place and that pre-blast surveys are being offered at the blasters expense. A list of homes surveyed must be made available to the Fire Marshal at the time of permit application. Approval can be granted without pre-blast survey when in writing from the property owner and the Fire Marshal. A pre-blast survey may not be required if the Scaled Distance is less than 30. "Scaled distance" means the actual distance in feet divided by the square root of the maximum explosive weight in pounds that is detonated per delay period for delay intervals of eight (8) milliseconds or greater. If delay intervals less than eight (8) milliseconds are employed or if instantaneous blasting is employed. Scaled Distance shall be computed by dividing the actual distance in feet by the square root of the total explosive weight in pounds.

F-3307.18 Quarry Operations: (Page 302) Insert a new sub-section as follows:

When a ground motion characteristics for any given quarry operation have been determined by the Fire Marshal, based on instrumentation data submitted by the Operator, the allowable quantity distance relations between amount of explosives used in primary blasting and distance from blast area shall be determined from the accepted results of instrumentation at the given blast operation for the various weights of explosives. The maximum amplitudes shall not exceed those given in the table of F-3007.1.68.

F-3307.19 Buffer: (Page 302) Insert a new sub-section as follows:

A buffer shall be maintained between quarry blasting operations and all occupied uncontrolled structures by a distance of 1,200 feet, with a minimum distance of 400 feet to any other property line, except property lines owned by the owners of the quarry.

F-3308.11 Retail Display And Sale (Page 304) Delete this section and insert the following:

F-3308.11.1 Scope (Page 304) Add a new sub-section:

The manufacture of fireworks is prohibited within the Boles Fire Protection District (hereafter referred to as the district).

F-3308.11.2 Permit Required (Page 304) Add a new sub-section:

Before any permit shall be issued for any fireworks stand and or tent, the applicant shall pay the permit fee, determined accordingly to the floor dimensions of the fireworks stand as measured by the outside dimensions of the stand and or tent, calculated at the rate of one dollar and fifty cent (\$1.50) per square foot for Temporary Fireworks stand or tent.

F-3308.11.2.1 Fees For Fireworks Displays (Page 304) Add a new sub-section:

Any person wishing to discharge fireworks within the district, which are used for exhibition purposes at fairs, celebrations, or any other public gathering, shall pay to the district a fee of \$200.00 for six month permit or \$400.00 for one year permit prior to the discharge of any fireworks subject to this provision.

F-3308.11.3 Permit Application (Page 304) Add a new sub-section:

Application for permit shall be made in writing. The sale, possession, uses, and distribution of fireworks for such display shall be lawful under the terms and conditions approved with the permit and for that purpose only. A permit granted hereunder shall not be transferable, nor shall any such permit be issued to a person under eighteen (18) years of age. All applications shall be accompanied by:

1. Written proof of ownership of property or valid lease or rental agreement permitting operations thereon.
2. One copy of plot plan showing:
 - a. Location
 - b. Lot lines
 - c. Existing structures
 - d. Distance from stand to lot lines
3. One application must be filled out for each stand or tent.

F-3308.11.4 Definitions (Page 304) Add a new sub-section:

- **Display:** An exhibition to the general public, either with or without fee or admission charge, which presents for public entertainment, or for patriotic purpose, an exhibition of fireworks arrangements and detonation, and which is created, set up and detonated or discharged by a person or organization which is in the business or handling, setting up, providing, and detonation or discharging fireworks for public as a regular or usual occupation.
- **Distributor:** A person engaged in the business of selling fireworks to wholesalers, jobbers, seasonal retailers, other persons, or governmental bodies that possess the necessary permits, including any person that imported fireworks of any kind in any manner in the district.

- **Fireworks Season:** The period between the twentieth day of June through the tenth day of July and period between the twentieth day of December through the second day of January of each year, shall be the only periods of time that seasonal retailers may be permitted to sell fireworks.
- **Jobber:** Any person engaged in the business of making sales of fireworks at wholesale or retail, within the district to non-licensed buyers from outside the State of Missouri for use and distribution outside the State of Missouri during a calendar year from the first day of January through the thirty-first day of December.
- **Manufacturer:** Any person engaged in the making, manufacturing assembly or construction of fireworks of any kind.
- **Sale:** An exchange of articles of fireworks for money, including barter, exchange, gift or offer thereof, and each such transaction made by any person whether as a principal proprietor, salesman, agent, association, co-partnership, or one or more individuals.
- **Seasonal Retailer:** Any person within the district engaged in the business of making sales of fireworks in the district during the fireworks season and may be defined by this code or the revised statutes of the State of Missouri.
- **Wholesales:** Any person engaged in the business of making sale of fireworks to any other person engaged in the business of making sale of fireworks at retail within the district.
- **Prohibited Fireworks:** All items of special UN1.36 commercial type saluted known as “cherry bombs”, “M80’s”, and various tabular salutes which exceed the limits of permitted D.O.T. Class UN 1.46 common fireworks items as to explosive composition designed to produce an audible effect and expressly prohibited from shipment into, manufacture, possession, sale and use within the district for any purpose.
- **Permissible Fireworks:** It shall be unlawful for any person to possess, sell or use within the district, or ship into the district, except as provided for special fireworks, any pyrotechnics commonly known as fireworks other than items now or hereafter classified as class UN 1.46 common fireworks, by the United States Department of Transportation or those items that comply with the construction, commercial composition, and labeling regulations promulgated by the United States Consumer Protection Safety Commission and permitted for use by the general public under their regulations. Items prohibited shall include items which are not classified by the United States Department of Transportation as “Common Fireworks” but identified under the regulations as trick noise makers, toy novelties, toy smoke devices, and sparklers, and shall include toy snakes, snappers, auto burglar alarms, smoke balls, smoke novelty items and wire sparklers containing any chlorate or pre-chlorate salts may not exceed five grams of composition per item. Matches, toy pistols, toy canes, toy guns, party popper’s, or other devices in which paper caps containing twenty five hundred grains or less of explosive compound provided that they are so constructed that the hand cannot come into contact with the cap when in place for use, and toy pistol paper caps which contain less than twenty five hundred grains of explosive mixture shall be permitted for sale and use at all times and shall not be regulated by the provision of this ordinance.

F-3308.11.5 Special Fireworks: (Page 304) Insert a new sub-section as follows:

Nothing in this code shall be constructed as applying to the shipping, sale possession and use of special fireworks for public display by holders of a permit for public display to be conducted in accordance with the rules and regulations governing this type of fireworks by the Alcohol, Tobacco and Firearms Division of the United States Treasury Department. Possession and sale of special fireworks shall be limited to a holder of a federal license or permit issued for display of fireworks. Possession of special fireworks for resale to holders of a permit for public display shall be confined to holders of a manufacturer’s or distributor’s permit only.

F-3308.11.6 Seizure Of Fireworks (Page 304) Insert a new sub-section as follows:

The Fire Marshal shall seize, take, or remove or cause to be removed at the expense of the owner, all stock of fireworks offered or exposed for display or sale, stored, or held in violation of this ordinance.

F-3308.11.7 Sale Of Fireworks: (Page 304) Insert a new sub-section as follows:

No person, corporation, or other entity of any kind shall conduct, or cause to be conducted, or keep or maintain or operate any stand or store or other place for the sale, or for offering for sale, or any fireworks, within the district. Unless such person, corporation, or their entity shall first obtain from the Fire Marshal a permit therefore, before issuing any such permit, the Fire Marshal shall issued such permit only if satisfied after such investigation, that the conduct of such stand in that location will be in complete compliance with the applicable provisions of the ordinance of the district and the revised Statutes of the State of Missouri.

F-3308.11.8 Permissible Items Sold When (Page 304) Insert a new sub-section as follows:

Permissible items of fireworks may be sold at retail by holders of a permit during the selling periods of the twentieth (20th) day of June through the tenth (10th) day of July and the twentieth (20th) day of December through the second (2nd) day of January.

F-3308.11.9 Egress (Page 304) Insert a new sub-section as follows:

All stands shall provide not less than two (2) means of egress.

F-3308.11.10 Required Documentation (Page 304) Insert a new sub-section as follows:

At all time that the stand is open for business, invoices, bills of sale, or shopping tickets, for all items on sale in the stand shall be available for inspection by the Fire Marshal at any time, so that the Fire Marshal may be informed on what is being offered for sale. Any item not covered for sale unless on the special written permission of the Fire Marshal after inspection thereof.

F-3308.11.11 Restricted Locations (Page 304) Insert a new sub-section as follows:

It shall be unlawful to expose fireworks to direct sunlight through glass to the merchandise display, except where the fireworks are in the original package. All fireworks, which the public may examine, shall be kept for sale in original package, except where an attendant is on duty at all times. Fireworks shall be kept out of reach of the public when an attendant is not on duty.

F-3308.11.12 Approved Locations of Stands or Tents (Page 304) Insert a new sub-section as follows:

No stand, or the sale of any fireworks, shall be permitted within any residence or within any commercial building of any kind. Each stand shall be located no closer than fifty (50) feet of any structure. Fireworks shall not be stored, kept or sold within fifty (50) feet of any gasoline pump, gasoline filling station, gasoline bulk station, or any building in which gasoline or volatile liquids are sold in quantities in excess of one gallon.

Exception: Stores where cleaners, paints, land oils are sold in the original containers to consumers.

F-3308.11.13 Sleeping Within Stand (Page 304) Insert a new sub-section as follows:

Sleeping within a fireworks stand, warehouse, storage, or place of sale of fireworks is prohibited.

F-3308.11.14 Fire Safety Requirements (Page 304) Insert a new sub-section as follows:

The operator of any stand shall closely cut and remove all weeds, grass and similar vegetation and all dry or flammable residues from such cuttings. All trash, empty cartons, paper or other debris or flammable material from an area of twenty five (25) feet in all directions surrounding the outside of any stand as well as inside of all stands.

F-3308.11.15 Trash Containers (Page 304) Insert a new sub-section as follows:

The operator shall also provide in the premises immediately adjacent to such stand, not less than two- (2) trash receptacles, of a kind and size approved by the Fire Marshal. The operator shall not less than hourly remove all trash, paper, and flammable debris of any kind from the stand and, which extends and one hundred (100) feet from the outside edge of the stand.

F-3308.11.16 Heating Units: (Page 304) Insert a new sub-section as follows:

No heating unit of any kind, nor any other device which emits flames or heat shall be kept or used within the stand.

F-3308.11.17 Electrical Wiring: (Page 304) Insert a new sub-section as follows:

Standard electrical lighting which conforms to the electrical system requirements of the current NFPA 70 National Electric Code and as follows:

1. Electric service to stand may be #14 awg minimum 3 wire (type sj). Sjt. or approved heavy-duty rubber or thermo-plastic cord and 3 prong plug. Cord shall terminate inside stand in junction box adjacent externally locked door.
2. Junction box should contain two (2) switches, one to operate external rain tight security light at externally locked door and one to operate interior lighting and on duplex receptacle.
3. There shall be no external wiring, fixtures, or devices except security light attached to fireworks stand. General interior lighting should not exceed 3 watts per square foot. Any broken bulbs shall be replaced immediately. Miniature lamp holders are not permitted for interior or exterior lighting.
4. Electrical supply for external lighting or remote signs may be taken from remote electrical service and area not to be "within reach" of the general public. All cords supplying such lighting shall be approved for usage sized to carry the load and may except at the point of attachment, be "within reach" of the general public.

F-3308.11.18 Remote Electrical Service (Page 304) Insert a new sub-section as follows:

1. Maximum size of service shall be rated 240 volt (Edison three wire) 30 amp and conform to latest Union Electric publication regarding such service.

2. Main service disconnecting means shall be readily accessible, encased in rain tight enclosure, sized to carry the load and shall disconnect all under- ground conductors.
3. Service ground shall be bare #8 awg copper wire attached to 5/8 x 8 foot copper weld ground rod by means of approved clamp; ground wire to rod connection shall be left exposed for inspection purposes.
4. Branch circuits shall be limited to two (2) duplex receptacles rated at fifteen (15) amp minimum encased in rain tight enclosure with rain tight covers. All new branch circuits shall be ground fault protected.

F-3308.11.19 No Smoking Provision: (Page 304) Insert a new sub-section as follows:

One or more signs reading (Fireworks, No Smoking) shall be displayed at all places where fireworks are stored or sold, with letters not less than four (4) inches in heights. Signs shall be displayed to be visible from all sides of the stand. It shall be unlawful to permit the presence of lighted cigars, cigarettes, pipes or any other open flame within twenty five (25) feet of where fireworks are offered for sale.

F-3308.11.20 Storage Of Fireworks (Page 304) Insert a new sub-section as follows:

No passenger automobile shall be used on the location as a conveyance of storage place for any fireworks, nor any conveyance or vehicle of any kind can be used for storage or transportation of fireworks within fifty (50) feet of any fireworks stand.

Exceptions: During the actual period of time when merchandise is being unloaded from the conveyance or vehicle and stored within the stand, or is being taken by the customer, which should be done expeditiously.

F-3308.11.21 Storage Area Required To Be Locked (Page 304) Insert a new sub-section as follows:

When not actually in use with personal or the operator therein, every such stand shall be locked in a manor approved by the Fire Marshal. All conveyance or vehicle on the stand premises, which are used for storage or transportation of fireworks by the operator, shall be closed and locked except when loading or unloading.

F-3308.11.22 Fire Extinguisher's (Page 304) Insert a new sub-section as follows:

At least two, two and one half (2 1/2) gallon-pressurized water fire extinguishers shall be kept within each such stand at all times one immediately adjacent to each exit. There shall be kept two (2) fifty-five (55) gallon drums filled with water at all times, with at least two (2) buckets hanging on each one, one drum shall be located at each exit of each such stand. Size of stand may require additional fire extinguishers.

F-3308.11.23 Discharge Of Fireworks (Page 304) Insert a new sub-section as follows:

It shall be unlawful to explode or ignite fireworks within six hundred (600) feet of where fireworks are stored, sold or offered for sale. This shall apply to any pump dispensing devices. No person shall ignite or discharge any permissible articles of fireworks within or throw the same from a motor vehicle or at or near any person or group of people.

Nothing in this ordinance shall be constructed to prevent owner of stand or tent from demonstrating or testing fireworks. Any such demonstrating or testing shall require the notification and written approval of the Fire Marshal.

Chapter 34 Flammable And Combustible Liquids

F-3404.2.8.12 Liquid Removal (Page 313) Delete and insert the following:

Means shall be provided to recover liquid from the vault. Where a pump is used to meet this requirement, the pump shall not be permanently installed in the vault. Electric powered portable pumps shall be suitable for use in Class I, Division I locations, as defined in the current NFPA 70 National Electrical Code.

F-3404.2.8.17 Classified Area (Page 313) Delete and insert the following:

The interior of a vault containing a tank that stores a Class 1 liquid shall be designated a Class 1, Division 1 location, as defined in the current NFPA 70 National Electrical Code.

Chapter 36 Flammable Solids

F-3606.5.5 Electrical Equipment (Page 348) Delete and insert the following:

Electric wiring, fixtures and equipment in the immediate vicinity of and attached to dust-producing machines, including those used in connection with separator equipment, shall be of approved types and shall be approved for use in Class II Division I hazardous locations in accordance with the current NFPA 70 National Electrical Code.

F-3606.5.6 Grounding (Page 348) Delete and insert the following:

Equipment shall be securely grounded by permanent ground wires in accordance with the current NFPA 70 National Electrical Code.

Chapter 46 Add a new chapter and the following sections:

F-4600 Scope Add a new section:

Basic fire control measures and regulations governing conditions, which could impede or interfere with the Boles Fire Protection District in the suppression of fire and other officers of the district.

F-4601 Control And Authority At Fire Scene And Other Emergencies Add a new section:

The Chief or other duly authorized representative of the Boles Fire Protection District may be in charge of the scene of a fire or other emergency involving the protection of life and/or property and is empowered to direct such operations as may be necessary to extinguish or control any suspected fires, gas leaks, or other hazardous conditions or situations, or to take any other action necessary in the reasonable performance of their duties. The Code Official may prohibit any person, vehicle or object from approaching the scene and may remove or cause to be removed from the scene any person, vehicle, which impede or interfere with the operation of the district. The Code Official may remove or cause to be removed any person, vehicle or object from hazardous areas. All persons ordered to leave a hazardous area shall do so immediately and shall not re-enter the area until authorized to do so by the Fire Chief or his designate.

F-4601.1 Interference With District Operations Add a new section:

It shall be unlawful to interfere with, attempt to interfere with, conspire to interfere with, obstruct, or restrict the mobility of or block the path of travel of any Boles Fire Protection District emergency vehicle or to otherwise interfere with any district operations.

F-4601.2 Compliance With Orders Add a new section:

A person shall not willfully fail or refuse to comply with any lawful order or direction of the Fire Chief or other Code Officials or to interfere with the compliance attempts of another individual.

F-4602 Vehicles Crossing Fire Hose Add a new section:

A vehicle shall not be driven over any unprotected fire hose of the district when laid down on any street, alleyway, private drive or any other vehicular roadway without the consent of the Fire Chief or other Officer in command of the operation or area.

F-4603 Definition Of Authorized Emergency Vehicle Add a new section:

Authorized emergency vehicles shall be restricted to those, which are defined and authorized under the laws of the State of Missouri.

F-4604 Operation Of Vehicles On Approach Of Authorized Emergency Vehicles Add a new section:

Upon the approach of any authorized emergency vehicle, giving audible and visual signal, the operator of every other vehicle shall immediately pull over to a position as near as possible and parallel to the right hand edge of the street or roadway clear of any intersection, and shall stop and remain in such position until the authorized emergency vehicle or vehicles shall have passed, unless otherwise directed the Fire Chief or his designate.

F-4605 Vehicles Following Emergency Vehicles Add a new section:

It shall be unlawful for the operator of any vehicle, other than one on official business, to follow closer than three hundred (300) feet from any emergency vehicle traveling in response to an emergency or to drive any vehicle within the immediate area where such emergency vehicles have stopped in answer to such emergency.

F-4606 Damage And Injury Add a new section:

Boles Fire Protection District equipment or personnel: It shall be unlawful for any person to damage or deface or attempt to or conspire to damage or deface any emergency vehicles at any time or to injure or conspire to injure any Boles Fire Protection District personnel, volunteer or otherwise, while performing their district duties.

F-4607 Blocking Fire Hydrants And Fire Department Connections Add a new section:

It shall be unlawful to obscure from view, damage, deface, obstruct or restrict the access to any fire hydrant or any Boles Fire Protection District connection for the pressurization of fire suppression system, including fire hydrants and Boles Fire Protection District connections that are located on public or private streets, roadways, access lane or on private property. If upon the expiration of time mentioned in a notice of violation, obstruction or encroachments are not removed, the Code Official shall proceed to remove the same. The parties who caused the same shall pay the cost incurred in the performance of necessary work.

F-4609 Maintenance Of Fire Suppression Equipment Add a new section:

A person shall not obstruct, remove, tamper with or otherwise disturb any fire hydrant or fire appliance required to be installed or maintained under the provision of the fire prevention code, except for the purpose of extinguishing fires, training or testing purpose, recharging, or making necessary repairs, or when permitted by the Code Official. Whenever a fire appliance is removed as herein permitted, it shall be replaced or re-installed as soon as the purpose for which it was removed has been accomplished. Defective and non-approved fire appliances or equipment shall be replaced or repaired as directed by the Code Official of the district.

F-4610 Street Obstructions Add a new section:

A person or persons shall not erect, construct, place or maintain any bumps, fences, gates, chains, bars, pipes, wood or metal horses or any other type of obstructions in or on any street, within the boundaries of the Boles Fire Protection District. The word "street" as used in the ordinance shall mean any roadway accessible to the public for vehicular traffic, including but not limited to private streets or access lanes, as well as all public streets and highways within the boundaries of the Boles Fire Protection District.

Appendix A: Board Of Appeals (Page 391) Delete in its entirety refer to section B-112 of the IBC 2006.

Appendix C (Page 395) Delete the following and insert the following:

C-101.1 Scope (Page 395) Delete and insert the following:

Fire Hydrants shall be provided in accordance with this appendix for the protection of buildings, or portions of buildings, hereafter constructed. All fire hydrants shall be approved by the American Water Works Association (AWWA) and or the water district having jurisdiction and meet the approval of the fire marshal.

C-101.2 New Structures (Page 395) Insert a new sub-section as follows:

No person shall commence construction of any new structure, building, or addition to any structure or building, within or upon any real property with the Fire Protection District unless such person shall first have submitted to the Fire Marshal a plat or drawing of the property whereon is located such building, structure, or addition, which plat or drawing has indicated thereon the nearest existing Fire Hydrant. If there is no Fire Hydrant within such distance as approved by the Fire Marshal, then the proposed installation of a new Fire Hydrant or Hydrants, and also the particular location proposed for such Fire Hydrants and the number of Fire Hydrants to be installed, if any, shall be approved by the Fire Marshal. All Fire Hydrants are to be installed on Four-inch (4") or larger water mains. All new water mains shall not be less than 6-inch (6") or larger as required by F-917.11.2 and F-917.11.3 Public Water Systems shall be installed at the commencement of construction.

C-101.3 Building Permits (Page 395) Insert a new sub-section as follows:

The Fire Marshal of the Fire Protection District shall not approved, issue building permits for, not permit the construction of any such new subdivision or new building or structure where the owner thereof shall fail to provide fire hydrants, to perform conditions of this Ordinance, or to permit access according to this section.

C-101.4 Existing Buildings And Structures (Page 395) Insert a new sub-section as follows:

At any building or structure within the Boles Fire Protection District where the Fire Marshal shall find it is necessary that Fire Hydrants be installed, as indicated by the standard fire hydrant spacing directives of the Boles Fire Protection District; that a water supply is available upon which can be mounted one or more Fire Hydrants; that the lack of such Fire Hydrants constitutes a fire hazard, endangering fire safety of any such building or structure; and that the provision of such Fire Hydrant or Fire Hydrants is necessary to adequate fire fighting at such building or structure, then the Fire Marshal may deliver or serve by mail, notice on the owner of any such building or structure, stating a time within which the owner shall cause to be installed one or more Fire Hydrants as the Fire Marshal may determine are necessary. If the owner shall fail to cause such installation to begin within the next thirty (30) days following the given of such notice, or if the owner shall cause or shall permit such installation to be delivered, or shall not proceed with such installation with due diligence, in any manner, then the Fire Marshal may revoke the occupancy and use permit of such building or structure until such Fire Hydrant, or Fire Hydrants are installed and in proper working order, in the discretion of the Fire Marshal. Every owner upon whom such notice shall be served shall cause installation of any such Fire Hydrant or Hydrants to be commenced within thirty (30) days following the given of notice, and shall cause the completion of installation to be made promptly, but, on application of any such owner, the Board of Directors of the Boles Fire Protection District may extend the time for completion of the installation of any Fire Hydrant or Hydrants, if the owner proves to the satisfaction of the Board of Directors, that such extension of time is necessary for reason beyond the control of the owner.

C-102.2 Area To Be Provided With Water Mains (Page 395) Insert a new sub-section as follows:

Water Mains shall be placed along the full length of the property to be developed that abuts existing and /or a proposed improved public way. Any portion of the subdivision or the tract of real estate from which it is subdivided is within three thousand (3000) feet of an existing public water supply water main and hydrants must be installed. A variance may be required by the Water Agency because of terrain and/or water quality consideration.

C-102.2.1 Exceptions/Variance (Page 395) Insert a new sub-section as follows:

If any installation of a Fire Hydrant is not reasonable and practicable, the applicant may apply to the Board of Directors for a variance from the Ordinance. In determining whether or not the installation of a fire hydrant is reasonable and practicable many factors are considered including, but not limited to the degree of fire hazard to the building site and those occupying the building site. The cost of installation of a Fire Hydrant and the number of individuals who would share the benefits of the Fire Hydrants If under the circumstance the installation of a Fire Hydrant is not reasonable and practicable, the Fire Marshal shall issue a Building Permit conditioned upon the applicant otherwise complying with the Fire Prevention Code and encumbering the land with a Land Agreement in the form designated by the Board of Directors. The Land Agreement is a covenant to install a Fire Hydrant when installation would be reasonable and practicable. On the application of any person, the Board of Directors of the Boles Fire Protection District may grant the variance to the requirements of this section for Fire Hydrant installations where there is no water supply reasonably available for the installation of Fire Hydrants.

C-102.3 Fire Hydrant Spacing (Page 395) Insert a new sub-section as follows:

Spacing of Fire Hydrants along a public way shall be regulated by the Use Group classification of the development that abuts the existing and/or proposed public way.

C-102.4 Required Locations (Page 395) Insert a new sub-section as follows:

A Fire Hydrant must be placed within one hundred (100) feet of the entrance of subdivision. All Fire Hydrants must be located on the side property line or as permitted by the Fire Marshal.

C-102.5 Fire Hydrant to Fire Department Connections (Page 395) Insert a new sub-section as follows:

There shall be a Fire Hydrant within one hundred fifty (150) feet of the Fire Department connection.

C-102.6 Relocation of Fire Hydrants (Page 395) Insert a new sub-section as follows:

Relocation of Fire Hydrants requested by the property owners and/or developer shall be relocated within the sole discretion of the Fire Marshal.

C-102.7 Setback Distance (Page 395) Insert a new sub-section as follows:

All Fire Hydrants shall be set back from the curb or edge of the pavement no further than Twelve (12) feet.

C-105.1 Hydrant Spacing (Page 395) Delete and insert the following:

The average spacing between fire hydrants shall not exceed that listed in Sections F-508.5.1.1 to F-508.5.1.25.

Exception: The Fire Marshal is authorized to accept a deficiency of up to 10 percent where existing fire hydrants provide all or a portion of the required fire hydrant service. Regardless of the average spacing, fire hydrants shall be located such that all points on streets and access roads adjacent to a building are within the distances listed in Sections F508.5.1.1 to F508.5.1.25.

Table C-105.1 Number and Distribution of Fire Hydrants (Page 395) Delete in its entirety

C-106.0 Unaccepted Location for Fire Hydrants (Page 395) Insert a new Section as follows:

C-106.1 Cross Street (Page 395) Insert a new sub-section:

Within twenty-five (25) feet of an intersection or cross street.

C-106.2 Cul-de-sac or an Eye Brow Insert (Page 395) a new sub-section:

Within a cul-de-sac or an eye brow (being a reconnected side street to the main thoroughfare, usually of short distance) or within Fifty (50) feet of either such construction.

Exception: Fire Hydrants are allowed if directed by the water company or Public Water Supply District.

C-106.3 Fire Hydrant Damage (Page 395) Insert a new sub-section as follows:

At any location where the fire hydrant could be damaged by vehicular traffic, such as in parking lots and like areas.

C-107.0 No Parking Area (Page 395) Add a new section.

C-107.1 Fire Hydrant Locations (Page 395) Insert a new sub-section as follows:

Where fire hydrants are required to be installed in areas where vehicles would be parked or standing, said vehicle parking or standing shall be restricted in the following locations:

C-107.1.1 Rear (Page 395) Insert a new sub-section as follows:

Within three (3) feet to the rear of the Fire Hydrant.

C-107.1.2 Sides (Page 395) Insert a new sub-section as follows:

Ten (10) feet from side to side.

C-107.1.3 Front (Page 395) Insert a new sub-section as follows:

From the Fire Hydrant to the center of the public or private way.

C-107.2 Fire Department Connections (Page 395) Insert a new sub-section as follows:

When fire department connections are located in an area where vehicles may be parked or standing, said vehicles shall be restricted from ten (10) feet in each direction from the fire department connection.

C-108.0 Obstructions (Page 395) Insert a new Section as follows:

C-108.1 Planting Of Bushes Or Trees (Page 395) Insert a new sub-section as follows:

There shall be no planting of bushes or trees within ten (10) feet of any fire hydrant in any direction.

C-108.2 Fences (Page 395) Insert a new sub-section as follows:

Fences shall not be constructed or placed within three (3) feet of the rear of the fire hydrant and ten (10) feet from side to side.

C-109.0 Installation Height (Page 395) Insert a new sub-section as follows:

C-109.1 Fire Hydrant Height (Page 395) Insert a new sub-section as follows:

Fire Hydrants shall be installed a minimum of twenty (20) inches and a maximum of thirty-six (36) inches above finished grade, measured from the center of the streamer connection.

C-109.2 Type And Size Of A Fire Hydrant (Page 395) Insert a new sub-section:

All newly installed hydrants shall be 3-way type. One out to be a 4 1/2" and the other two outlets to be 2 1/2" with National Standard Thread.

C-110.0 Color Coding Fire Hydrants (Page 395) Insert a new sub-section:

C-110.1 Scope (Page 395) Insert a new sub-section as follows:

All fire hydrants shall be painted to match the following requirements after installed by the contractor. The caps shall be coated with approved grease as required by the code official and the public water district. The paint must be a good grade and applied with either a brush or sprayer.

C-110.2 Barrels (Page 395) Insert a new sub-section as follows:

All Fire Hydrants barrels are to be painted yellow.

C-110.3 Bonnets (Page 395) Insert a new sub-section as follows:

All Fire Hydrants bonnets top flange of the fire hydrant) are to be painted as follows:

COLOR	WATER GPM
Blue	1500 or greater
Green	1000 to 1499
Orange	500 to 999
Red	Less than 500

Appendix D (Page 397) Delete the following and insert:

D-103.1 Access Road Width with a Hydrant (Page 397) Delete in its entirety.

D-103.5 Fire Apparatus Access Road Gates (Pages 397 & 398) Deleted in its entirety and insert the following:

D-103.5 Fire Apparatus Access Road Gates (Pages 397 & 398): Delete in its entirety and insert the following:

The Board of Directors of the Boles Fire Protection District must approval proposals for gated and or barricade devises obstructing all public or private roads, public or private streets, and or fire service access roads. All proposals must meet the following criteria:

1. **Plans:** Plans, including a plat drawing showing the subdivision, must be filed with the Fire Marshal's office showing:
 - a. The location of the gate(s) to be installed;

- b. The type of gate(s) to be installed;
 - c. Specifications for motor and quick release;
 - d. Location of the rapid entry switch;
 - e. All entrances to the gated community;
 - f. Type and location of power source.
2. **Set Back:** The gate shall be set at a minimum of 40 feet from the edge of a cross street from which the gated street is accessed.
- i. Definition:
 - Cross Street: A road that intersects or connects with another road.
3. **Width of Gate:** If one gate is used, the gate must open the full width of the required street or road width. If two (2) gates are used, each gate must open a minimum width of 12 feet or the full width of the street or road if the street or road is less than twenty-four (24) feet in width.
4. **Gate(s):**
- a. Only the following types of gates shall be approved:
 - ii. Gates that swing open horizontally in the direction of vehicle travel;
 - iii. Gates that slide open in a perpendicular to the direction to vehicle travel.
 - b. Gate(s) shall be powered by electricity from the local utility company or by solar power.
 - c. If power is lost to the gate, the gate must be capable of opening with a battery backup system or manually and must be locked in the open position until the power is restored. Any type of battery backup system must be kept fully charged.
 - d. Gate(s) must be equipped with a rapid entry switch, which is approved by the Fire Marshal. The switch must be installed per the manufacturer's and directions and at the direction of the Fire Marshal. If a key is required it shall meet the Boles Fire protection District KNOX Box master key system.
 - e. Gate(s) must be opened with a quick release system that allows the gate(s) to be opened manually.
 - f. The area of the fire apparatus access road measuring sixty (40) feet in both directions from the gate shall be designated as a fire lane and marked by signs in conformity with this code.
 - g. If the gate is found in a non-working condition it shall be locked in the open position.
 - h. Entrance gate(s) must be equipped with a siren-activated opener (SOS). This opener must open the by either electronic or mechanical ("Q") siren.
 - i. A gate opened by a siren-opener (SOS) must remain in the open position for at least (15) MINUTES.
5. **Inclement Weather:** The gate(s) shall be kept open at all times when the fire apparatus access road is covered with snow or ice.
6. **Trustees or Property Management Company:** Property owners and or subdivision governing body to which a gate or barricade would be installed shall provide the district with written notification of any change of trustees or a property Management Company within ten (10) days of any such change.
7. **Inspections:** Authorized service provider must perform a yearly inspection. The subdivision or property Management Company has the responsibility to schedule and ensure completion of this inspection. This inspection must cover all moving parts of the gate(s), power supply, electric and or electronic controls, battery backup, and the general workings of the gate(s). A written copy of the inspection must be submitted to the Fire Marshal within ten (10) days of the inspection. The Fire Marshal shall make a semi-annual inspection.
8. **Petition:** A petition signed by all property owners and spouses must be presented with each application. Each signature must be accompanied by the individual's legibly printed name and address. Each Page of the petition must state the following: "I agree with gate(s) being installed at all entrances of the subdivision; I understand that when the gate(s) is installed the fire department response can be lengthened by an extended period of time. I further agree not to hold any emergency service responder including but not limited to the Boles Fire Protection District, ambulance district, or law enforcement agency and personnel responsible for damages to persons or property due to additional response time. This agreement shall be considered a covenant running with the land.

D-103.6.1 Roads 20 to 26 feet in Width (Page 398) Delete in its entirety.

D-103.6.2 Roads More Than 26 Feet in Width (Page 398) Delete in its entirety.

SECTION 5 CONFLICTING AND INCONSISTENT PORTIONS OF THE ORDINANCE

In case of conflict between any section of the designated Fire Prevention Code of the Boles Fire Protection District of Franklin County, Missouri, this ordinance, or any other ordinance of the Boles Fire Protection District of Franklin County,

Missouri, the most rigid requirement(s) shall apply. Where portions of the code are inconsistent with one another, those portions are hereby revoked and repealed as of no effect.

SECTION 6 SAVINGS CLAUSE

Nothing in this ordinance hereby adopted shall be construed to affect any pending proceeding or suit in any court, or any rights acquired, or liability incurred, or any cause of action acquired or existing, under any act or ordinance hereby repealed, if any; nor shall any just or equitable or legal right or remedy of any character be lost, impaired or affected by this ordinance.

SECTION 7 SEVERABILITY

If any section, subsection, sentence, clause, phrase, or portion of this ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such section, sub-section, sentence, clause, phrase or portion of this ordinance shall be deemed a separate, distinct, and independent provision and such holding shall not affect the validity of the remaining section, subsection, sentence, clause, phrase, or portion of this ordinance.

SECTION 8 EMERGENCY ENACTMENT

It being deemed that the situation intended to be met by this ordinance constitutes an emergency directly affecting the lives, safety, and health of the inhabitants of the area encompassed by this ordinance, and the protection of property within those areas, this **ordinance shall take effect and be in full force and effective immediately from and after the enactment of same.** This ordinance having been duly considered and voted upon by the board of directors of the **Boles Fire Protection District** of Franklin County, Missouri, the ordinance is enacted as an ordinance of the **Boles Fire Protection District** of this 8th day of February, 2007.

August R. Holthaus, CHAIRMAN
BOARD OF DIRECTORS

ATTEST:

Michael F. Casey Jr., SECRETARY/TREASURER

BOARD OF DIRECTORS

(SEAL)

APPROVED:

August R. Holthaus, Chairman

Lloyd Harfst, Vice-Chairman

Michael F. Casey Jr. Secretary/Treasurer