

Introduced by: Mayor Eberhart
Introduced: June 6, 2016

ORDINANCE NO. 6017

**AN ORDINANCE TO AMEND FGC CHAPTER 30, ARTICLE II
INTERNATIONAL FIRE CODE, BY ADOPTING THE 2015 INTERNATIONAL
FIRE CODE WITH LOCAL AMENDMENTS**

WHEREAS, the Building Code Review and Appeals Commission reviewed the 2015 International Fire Code and the amendments thereto and recommends adoption of the 2015 International Fire Code with local amendments; and

WHEREAS, the City Council accepts the recommendations of the Building Code Review and Appeals Commission,

NOW, THEREFORE, BE IT ENACTED BY THE CITY COUNCIL OF THE CITY OF FAIRBANKS, ALASKA, as follows:

Section 1. Fairbanks General Code Chapter 30, Article II, is hereby repealed and re-enacted as follows:

ARTICLE II INTERNATIONAL FIRE CODE

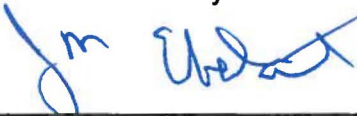
Sec. 30-31. Adoption.

The International Fire Code, 2015 Edition, including all appendix chapters, as published by the International Code Council is hereby adopted.

Sec. 30-32. Amendments.

The City of Fairbanks Local Amendments to the 2015 International Fire Code is hereby adopted. Copies of the Local Amendments to the 2015 International Fire Code shall be made available at the Building Department and published online at the City of Fairbanks website.

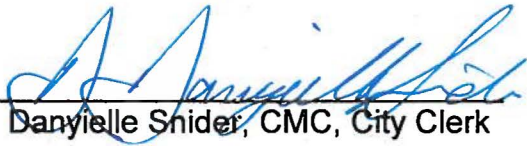
Section 2. That the effective date of this Ordinance is the 25th day of June 2016.



John Eberhart, Mayor

AYES: Matherly, Cleworth, Rogers, Huntington, Gatewood, Pruhs
NAYS: None
ABSENT: None
ADOPTED: June 20, 2016

ATTEST:



D. Danyelle Snider, CMC, City Clerk

APPROVED AS TO FORM



Paul Ewers, City Attorney

CITY OF FAIRBANKS

Local Amendments to the 2015 International Fire Code

(Adopted by Ordinance No. 6017)

The International Fire Code, 2015 Edition, is hereby amended as follows:

Section 105 Permits.

Section 105.6 Required operational permits. is amended by deleting all required operational permits except:

105.6.15 Explosives and fire works

105.6.45 Temporary membrane structures, tents, and canopies

Section 105.7 Construction Permits is amended by deleting all the required construction permits except:

105.7.1 Automatic fire extinguishing systems

105.7. 6 Fire alarm and detection systems & related equipment

105.7. 7 Fire pumps & related equipment

105.7. 17 Standpipe systems

105.7. 18 Temporary membrane structures, tents, and canopies

A permit is required to operate an air-supported temporary membrane structure, a temporary stage canopy or tent having an area in excess of 400 square feet (37 m²).

Exceptions:

1. Tents used exclusively for recreational camping purposes.
2. Fabric canopies and awnings open on all sides which comply with all the following:
 - 2.1 Individual canopies shall have a maximum size of 700 square feet (65 m²).
 - 2.2 The aggregate area of multiple canopies placed side by side without a fire break clearance of 12 feet (3658 mm) shall not exceed 700 square feet (65 m²) total.
 - 2.3 A minimum clearance of 12 feet (3658 mm) to structures and other tents shall be provided.

Section 105 Permits is amended by adding the following new sections

105.7.1.1 A person and/or company designing, installing, testing, or maintaining automatic fire extinguishing systems are required to be NICET certified and provide a current permit issued by the Alaska State Fire Marshal's Office.

105.7. 6.1 A person and/or company designing, installing, testing, or maintaining fire alarm and detection systems and related equipment are required to be NICET certified and provide a current permit issued by the Alaska State Fire Marshal's Office.

Section 106 Inspection Add subsection 106.5 as follows:

106.5 All buildings and structures subject to the authority of this code are subject to inspection pursuant to a duly adopted inspection program. All inspections provided will subject the owner and/or operator to payment of fees as set forth in Fairbanks Code of Ordinances .

Section 201.3 Terms Defined in Other Codes.

Where terms are not defined in this code and are defined in the International Building Code, International Fuel Gas Code, International Mechanical Code or Uniform Plumbing Code, as adopted by the and amended by the City of Fairbanks, such terms shall have the meanings ascribed to them as in those codes.

Where reference to any electrical code is made in this code, it shall be taken to mean the National Electrical Code as adopted and amended by the City of Fairbanks.

Section 202 Definitions and Abbreviations. Amend the definitions as follow:

Educational Group E, day care facilities is revise to read: "This group includes building and structure, or portion thereof occupied by more than five children older than 2 ½ years of age, including children related to staff, who receive educational, supervision or personal care services for less than 24-hours per day.";

Educational Group E Day care

Create a new definition for **Family Child Care Homes** to read as follows:

A family child care home is a licensed facility that is located within a single- family home in which personal care services are provided by the owner or tenant that normally occupies the residence on a twenty four basis.

Add the following exception to this section "Exception: Family child care homes operated in a primary residence (R-3) and operating between the hours of 6:00 a.m. and 10:00 p.m. may accommodate a total of twelve children including children related to staff, provided that no more than 5 children are under the age of 2 ½ years, without conforming to the requirements of a Group E occupancy except for (1) smoke alarms as described in Subsection 907.2.11; (2) general means of egress requirements of Section 1003, including emergency escape and rescue openings, as required by Section 1030, in napping or sleeping rooms; (3) accessibility requirements as outlined in Chapter 11; (4) portable fire extinguisher requirements as described in Section 906 and (5) CO detection as required in IFC Section 915.

Family child care homes operated in a primary residence (R-3) and operating between the hours of 10:00 p.m. and 6:00 a.m. with more than 5 children including children related to staff shall be equipped with an approved automatic sprinkler system throughout, designed and installed in accordance with IFC Section 903.3.1.3 and NFPA Standard 13D or an approved equivalent system as approved by the Fire Chief; emergency escape and rescue openings, as required by Section 1030, in napping or sleeping rooms; portable fire extinguisher requirements as described in Section 906", smoke detection as required in Subsection 907.2.11 and CO detection as required in IFC Section 915;

Create a new definition for **Foster Care Facilities** to read as follows:

Foster Care Facilities. Facilities that provide care on a 24-hour basis to more than five children 2 ½ years of age or less, including children related to the staff, shall be classified as Group I-2.

Institutional Group I-1. Revised this section by deleting the second paragraph of condition 2 and replacing with the following:

A facility housing more than 2 and not more than 16 persons receiving custodial care shall be classified as Group R-4;

And revise the third paragraph of Condition 2 by deleting it and replacing it with the following:

Two or fewer persons receiving custodial care: A facility with two or fewer persons receiving custodial care shall be classified as a Group R-3.

Institutional Group I-2 is revised to read: "Institutional Group I-2 occupancy shall include buildings and structures used for medical care on a 24-hour basis for more than two persons who are not capable of self-preservation."

Institutional Group I-2 is revised to read: "A child care facility that provides care on a 24-hour basis to more than five children who are 2 ½ years of age or less,

including children related to the staff shall be classified as Group I-2." This facility shall include "Foster Care Facilities".

Institutional Group I-4, day care facilities first paragraph is revised to read: "Institutional Group I-4 shall include building and structure, or portion thereof occupied by more than five children of any age, including persons related to the staff, receiving custodial care for less than 24 hours. ";

Add new definition:

Nursing homes. Facilities that provide care, including both intermediate care facilities and skilled nursing facilities, serving more than two persons and any of the persons are incapable of self-preservation.

Residential Group R, R-4. Delete this paragraph in its entirety and replace as follows:

Residential occupancies shall include buildings, structures or portions thereof for more than 2 and no more than 16 persons, excluding staff, which reside on a 24 hour basis in a supervised residential environment and receive custodial care. Occupants of a residential care/assisted living facility are capable of responding to an emergency situation without physical assistance from the staff. Occupancies which include individuals who are not capable of responding to an emergency situation or incapable of self-preservation shall be classified as an "I occupancy". R-4 occupancies shall be sprinklered throughout as required by section 903.3.1.3.

Townhouse. Delete the definition and replace as follows:

Townhouse: A single-family dwelling unit constructed in a group of two or more attached units in which each unit extends from foundation to roof and with a yard or public way on at least two sides. Each townhouse shall be considered a separate building as recognized by a recorded lot line between such units. Each townhouse unit shall be provided with separate water, sewer, heating and electrical services.

Section 307.2 Permit required is revised by deleting this paragraph and replacing with:

A permit is required to be obtained for any open burning of brush or other organic plant material that does not create black smoke, toxic gases or odors which may affect nearby persons as prescribed by the ADNR / Forestry Division. Burning of other material must be approved / permitted by ADEC and FNSB Air Quality.

Section 405 EMERGENCY EVACUATION DRILLS is revised by the addition of a subsection:

405.10 False alarms.: False alarms may not be counted as a fire drill for the purposes of Section 405.

Section 507.5.4 (Obstructions) is revised by deleting this paragraph and adding the following:

Posts, fences, vehicles, growth, trash, storage and other materials or objects shall not be placed or kept near fire hydrants, fire department inlet connections (FDC) or fire protection system control valves in a manner that would prevent such equipment or fire hydrants from being immediately discernible. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants. No vehicle shall be parked within 15 feet of the front and ten feet of the side of a fire hydrant, fire department connection or fire protection control valve on private or public property.

Section 901.3 Permits is revised by deleting this section and adding the following:

Permits shall be required as set forth in Section 105.7. Any company installing and or performing maintenance on sprinkler systems shall have at least one individual on site that holds a permit issued by the State Fire Marshal's Office.

Section 901 General is revised by adding a new subsection to read as follows:

901.11 Damage protection. When exposed to probable vehicular damage due to proximity to alleys, driveways or parking areas; standpipes, post indicator valves and sprinkler system or standpipe system connections, as well as Fire Hydrants (private or public) shall be protected in an approved manner as outlined by IFC (International Fire Code) or GHU (Golden Heart Utilities) standards.

Section 901.6.2 is revised by deleting this section and adding the following:

Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained on the premises for a minimum of three years. Copies of all inspection and service reports shall be sent to the fire code official within 30 days of inspection, testing, and maintenance.

901.6.2.1 "Records" is revised by deleting this section and adding the following:

Initial records shall include the name of the installation contractor, type of components installed, and manufacturer of the components, location and number of components installed per floor. Records shall also include the manufacturers'

operation and maintenance instruction manuals. Such records shall be maintained on the premises for the life of the installation. A copy of all inspection and service reports shall be sent to the fire code official within 30 days of the install.

Section 903.2.3 Group E. Delete this section in its entirety and replace as follows:

An automatic sprinkler system shall be provided throughout all Group E occupancies. An automatic sprinkler system shall also be provided for every portion of educational buildings below the level of exit discharge. Day care uses that are licensed to care for more than 5 persons between the hours of 10 p.m. and 6 a.m. shall be equipped with an automatic sprinkler system designed and installed in accordance with Section 903.3.1.3, or an approved equivalent system.

Exceptions:

1. Buildings with E occupancies having an occupant load of 49 or less.
2. Day care uses not otherwise required to have automatic sprinkler systems by other provision of the code.

903.2.11 Specific building areas and hazards is revised by adding the subsection:

903.2.11.7 Pit sprinklers. Sprinklers shall be installed in the bottom of all new and existing elevator pits below the lowest projection of the elevator car but no higher than 24" from the bottom of the pit.

Section 903.3.1.1 is revised by adding a new Subsection:

903.3.1.1.2 Elevator Hoist ways and Machine Rooms. When the provisions of this code require the installation of automatic sprinkler systems, the installation in elevator hoist ways and machine rooms must occur as described in IBC Chapter 30 (Elevators & Conveyer Systems) and N.F.P.A. 13, (Elevator Hoist ways and Machine Rooms) and adopted by reference, and the American Society for Mechanical Engineers (A.S.M.E.) A17.1 *Safety Code for Elevators and Escalators* (as adopted by the State of Alaska Dept. of Labor Standards and Safety) and adopted by reference. The sprinkler head at the top of the elevator shaft must have an isolation valve so the single head can be shut off in the event of an emergency. The valve must be marked and sealed or locked in the open position.

Exception: Sprinklers are not required in an elevator machine room where the machine room is:

- (1) Separated from the remainder of the building as described in *I.B.C.* Section 3006.4;

- (2) Smoke detection is provided in accordance with N.F.P.A. 72 and adopted by reference; and,
- (3) Notification of alarm activation is received at an approved central station alarm.

Section 903.4.2 Alarms. Amend this section by adding the following sentence to the end of the paragraph:

Buildings equipped with a sprinkler system without an alarm system shall have at least one notification device (horn/strobe) located inside the building in a commonly occupied area(s) to alert occupants of a sprinkler activation.

Section 907.2.3 Group E is revised by adding a second paragraph to read:

Rooms used for sleeping or napping purposes within a day care use of Group E occupancy must be provided with smoke alarms that comply with Section 907.2.11 and CO (carbon monoxide) detection as required Section 915.

Section 907.7 Acceptance Test is revised by adding a new sentence to read:

A copy of the acceptance test certificate must be forwarded to the fire code official by the firm conducting the test within 30 days of the completion of the installation.

Section 907.8.5 Maintenance, Inspection and Testing is revised by changing the last sentence to reads:

Records of inspection, testing and maintenance shall be maintained and a copy shall be **delivered within 30 days** to the fire code official.

Section 915.1 General. Revise the last sentence of this paragraph to read as follows.

Carbon monoxide detection shall be installed in existing buildings in accordance with Chapter 11 of the International Fire Code and this section.

Section 915.1.7 Vehicle parking. Add this subsection and the following.

Carbon monoxide detection shall be provided where there is located any vehicle parking within 25 feet of any direct air intake openings.

915.4.1 Power source. Is revised by adding the following sentence to the end of the paragraph;

Carbon monoxide detectors shall be permitted to be cord-and-plug type with battery backup, or battery powered in existing construction.

Section 1006.3.2.3 Exits from Basements. Create a new subsection and title to read as follows:

Basements in all occupancies except Group R-3 shall be provided with a minimum of at least two independent exits.

Exceptions:

1. Basements used exclusively for the service of the building.
2. Basements used exclusively for storage purposes and limited to 750 square feet.
3. Basements used for private offices, maintenance rooms or laundry rooms and similar uses limited to an aggregate floor area of 500 square feet, provided a hard wired smoke detector is installed in the basement and interconnected to a smoke detector located on the level of discharge as approved by the City Fire Marshal.
4. Basements used for private offices, maintenance rooms or laundry rooms and similar uses which are provided with a direct exterior exit to grade shall be limited to an aggregate floor area of 750 square feet, provided a hard wired smoke detector is installed in the basement and interconnected to a smoke detector on the level of exit discharge as approved by the City Fire Marshal.
5. Buildings which are sprinklered throughout and contain a basement may have one exit provided:
 - 5.1 Basements are used exclusively for storage purposes and limited to 1500 square feet.
 - 5.2 Basements are used for private offices, maintenance rooms, or laundry rooms and similar uses limited to an aggregate floor area of 1000 square feet.
 - 5.3 Basements are used for private offices, maintenance rooms or laundry rooms and similar uses and are provided with a direct exterior exit to grade shall be limited to an aggregate floor area of 1500 square feet.

Section 1010.1.9.3 Locks or Latches. Add Condition 6 as follows:

6. In Groups B, F, M and S occupancies, a single thumb turn may be used in exit doors, where the occupant load is 100 or less, in conjunction with an approved lock set when the thumb turn requires no more than one-half turn to unlock. Hardware height shall comply

with Section 1010.1.9.2. This exception does not apply when panic hardware is required or installed.

Section 1010.1.9.3.1 Manual security bar for limited use. Create a new subsection and title to read as follows:

Manual security bar for limited use. Assembly occupancies such as restaurants, taverns and lounges and B,F,M,S occupancies with an occupant load of less than 100 may utilize a manual security bar for the second required exit when the building is not occupied by the public. The security bar shall be pre-approved by the fire marshal before installation. The bar must be easily removed and shall not be provided with padlocks, chains or other locking devices requiring special tools or knowledge. The bar shall be identified by a contrasting color. The exit door shall be provided with a sign stating, "This door to remain unlocked during business hours." The conditions and approval of the security bar installation shall be kept on file with the fire marshal. The use of this provision may be revoked by the fire marshal for non-compliance.

Assembly occupancies with an occupant load of 300 or less which are provided with an approved sprinkler system thorough out may install a security bar on the second required exit as specified above. The conditions and approval of the security bar installation shall be kept on file with the fire marshal. The use of this provision may be revoked by the fire marshal for noncompliance.

Section 1011.5.2 Riser height. Amend section by adding an exception #6 to read as follows:

Stairs or ladders used only to attend equipment are exempt from the requirements of Section 1011.

Section 1030.1 General. Revise the first sentence of the paragraph to read as follows:

In addition to the means of egress required by this chapter, provisions shall be made for emergency escape and rescue in Group R, I-1, and day care occupancies where napping or sleeping rooms are provided.

Section 1030.1 General. Revise this section by deleting exceptions 1.

Section 1030.2 Minimum size. Delete the exception.

Section 1030 Maintenance of the means of egress is revised by adding the following section:

Section 1031.10 Protection from falling snow and ice. Where the accumulation of snow and/or ice on a structure creates a hazardous condition, the areas below the accumulation shall be protected from falling snow and/or ice. These areas shall include (but not be limited to) building entrances and exits, pedestrian, driveways, public right-of-way and utility locations for gas meters, fire department connections, and electrical meters, services and disconnects, etc.

Appendix B Fire Flow Requirements for Buildings

Section B103- Modifications: Add new subsections B103.4 and B103.5 as follows:

B103.4 For buildings requiring a fire flow of 1,500 gallons per minute or less, located in areas not served by water mains, the Fire Chief may waive or reduce the fire flow requirements and/or may require a fire alarm system, if the cost of installing water mains or reservoirs exceeds 5% of the total cost of the structure(s) and improvement(s) as determined by the architect's or engineer's estimate.

B103.5 Table B105.1 is modified as follows for buildings located in areas not served by water mains.

- a. Floor areas for buildings may be increased by 100% of the basic floor area without an increase in fire flow, provided that an automatic, central station, or remote station supervised smoke or heat detection system is installed throughout the structure in accordance with NFPA 72. For the purposes of this subsection, such an installation may allow type V-B construction to be increased to 10,000 square feet in area.
- b. Separate fire areas within a building may be created by the construction of concrete or concrete block walls having minimum fire duration of two (2) hours, with no openings permitted, and extending to the outer edges of horizontal projecting elements. Full height parapets are required above the roof line.
- c. Sprinkler systems installed to reduce fire flow requirements (by 75% in accordance with the exception to section B105.2) and not otherwise required by the International Building or Fire Codes, 2009 editions, may be supplied from either pressure tanks or tanks with a listed fire pump, sized in accordance with the following criteria:

Classification	Design area (X 1500 sq. ft.)	Tank with fire pump	Pressure tank
Light Hazard	.10 gal/sq. ft.	2,000 gals	3,000 gals
Ord. Hazard 1	.15 gal/sq ft.	2,500 gals	3,750 gals
Ord. Hazard 2	.20 gal/sq ft.	3,000 gals	4,500 gals
Extra Hazard 1 & 2	NOT PERMITTED		

- d. Sprinkler systems specifically required by the 2009 editions of the International Building Code or Fire Code shall be installed in accordance with Chapter 9 of the International Fire Code 2009 edition. An approved water supply capable of providing ten minutes of the sprinkler system design discharge, not including hose stream allowances, shall be provided. The system must be monitored by an approved central or remote station alarm system. At such time that a water utility main is laid in front of, alongside of, or adjacent to the improved property, the owner of the property must connect the sprinkler system to the water utility main in an approved manner within one year and thirty days from the date such water service is declared available.
- e. A tract of land or subdivision which has been surveyed and divided into residential lots for purpose of sale shall meet fire flow requirements as determined by Section B105.1 of this Appendix.
- f. A tract of land, which, by means of incremental development, becomes similar to a tract of land or subdivision, which has been surveyed and divided into residential lots for purpose of sale, shall meet fire flow requirements as determined by Section B105.1 of this Appendix..
- g. Once an approved water main system is installed, subsequent additions to existing buildings, and all new construction, shall meet the required fire flow.
- h. Multiple structures on a single lot shall be individually evaluated for fire flow requirements.