

**Title 13. Public Safety.
Part 2. Fire Prevention.
Chapter 50. Codes and Standards.**

(Words in **boldface and underlined** indicate language being added; words [CAPITALIZED AND BRACKETED] indicate language being deleted. Complete new sections are not underlined.)

13 AAC 50.010 is amended to read:

13 AAC 50.010. Occupancy classifications. All buildings or areas of a building are classified as to their occupancy according to the occupancy classifications defined in the *International Building Code (2009 Edition)* [(2006 EDITION)] (*I.B.C.*). (In effect before 7/26/59; am 6/25/69, Register 30; am 2/21/71, Register 37; am 1/14/81, Register 77; am 9/15/2001, Register 159; am 8/27/2004, Register 171; am 9/13/2007, Register 183; am ____/____/____, Register ____)

Authority: AS 18.70.080

Editor's note: Copies of the *International Building Code, 2009* [2006] *Edition* may be obtained from the International Code Council Inc., 4051 West Flossmoor Road, Country Club Hills, IL 60478; telephone: (800) 423-6587; or at www.iccsafe.org.

13 AAC 50.020 is amended to read:

13 AAC 50.020. Building code. The *International Building Code (I.B.C.)*, Chapters 1 - 12, 14 - 28, and 30 - 35, and Appendix C (**2009** [2006] *Edition*) are adopted by reference to regulate all occupancies and buildings with the following revisions:

The *I.B.C.*, is revised by deleting all the references to the "*ICC Electrical Code or NFPA 70*" and replacing them with "*Electrical Code as adopted by 8 AAC 70.025, as amended as of September 27, 2008 and as amended from time to time*";

The *I.B.C.*, is revised by deleting all the references to the "*International Fuel Gas Code*" and "*International Plumbing Code*" and replacing them with "*Plumbing Code as adopted by 8 AAC 63.010, as amended as of September 27, 2008 and as amended from time to time*";

(1) Chapter 1 of the *I.B.C.* is revised by deleting Sections 101.4.5, 101.4.7, 103, 104.4, 104.6, 104.8, 105.4, **107.5** [106.5], **109.2** [108.2], **109.4** [108.5], 109.5, and **110** [109] - 115; **is revised by deleting the reference to the "*International Property Maintenance Code*"; is revised by deleting the reference to the "*International Residential Code*"; is revised by deleting the reference to the "*International Energy Conservation Code*";**

[(3) CHAPTER 1, SECTION 101.4.1 (ELECTRICAL) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*ICC ELECTRICAL CODE*” AND REPLACING WITH “*ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025*, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];]

[(4) CHAPTER 1, SECTION 101.4.4 (PLUMBING) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*INTERNATIONAL PLUMBING CODE*” AND REPLACING IT WITH “PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED AS AMENDED FROM TIME TO TIME”];]

[(5) CHAPTER 1, SECTION 102.6 (EXISTING STRUCTURES) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*INTERNATIONAL PROPERTY MAINTENANCE CODE*”];]

(6) Chapter 1, Section 104.2 (Applications and permits) of the *I.B.C.*, is revised by deleting the words "and permits" from the heading, and the section is revised to read: "The building official shall receive applications and review construction documents for the on-site erection, alteration, demolition, and moving of buildings and structures and, at the agency's discretion, will inspect the premises to enforce compliance with the provisions of this code. **Construction occurring out of state or manufactured off site must have a plan review completed before being placed on its foundation and all plan review deficiencies corrected prior to occupancy of the facility.**";

(9) Chapter 1, Section 105.2 (Work exempt from permit) of the *I.B.C.*, **Item 2 is revised to read:** [IS REVISED] “**2. Fences.**”[BY DELETING ITEMS 2, 4, AND 5] and adding a new item 14 to read: "14. Buildings classified as a Group U Occupancy, other than those in Appendix L, that are not offered for use by persons other than the property owner or the owner's employees, not open to the public, and not containing hazardous materials in excess of those found in Tables 307.7(1) and 307.7(2). This exemption includes buildings in which the public has no access, such as farm, dairy operations, or greenhouse operations.";

(10) Chapter 1, Section 105.3 (Application for permit) of the *I.B.C.*, the first sentence is revised to read: "To obtain a plan review approval, the applicant must first file an application in writing on a form furnished for that purpose by the code enforcement agency[.];" **and refer to Appendix M for voluntary review of CMS, Medicaid/Medicare Building requirements.**";

(11) Chapter 1, Section **107** [106] (**Submittal** [CONSTRUCTION] Documents) of the *I.B.C.*, is revised by replacing the word "permit" wherever it occurs, with the words "plan review";

(12) Chapter 1, Section **107.2.2** [106.1.1.1] (Fire protection system shop drawings) of the *I.B.C.*, is revised by adding the sentence "A copy of the approved stamped plans are to be retained on site." at the end of the section;

(13) Chapter 1, Section **107.3.1** [106.3.1] (Approval of construction documents) of the *I.B.C.*, is revised to read: "One set of bound construction documents so reviewed shall be retained by the building official.";

[(14) CHAPTER 1, SECTION 106.3.4.1 (GENERAL) OF THE *I.B.C.*, THE FIRST SENTENCE OF THE THIRD PARAGRAPH IS REVISED TO READ: "STRUCTURAL OBSERVATION SHALL BE AS REQUIRED BY SECTION 1709.";]

[(15) CHAPTER 1, SECTION 107.3 (TEMPORARY POWER) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 0.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(16) Chapter 1, Section **109** [108.1] (**Fees**) [(PAYMENT OF FEES)] of the *I.B.C.*, is revised by replacing the word "permit" wherever it occurs, with the words "plan review";

(17) Chapter 1, Section **109.3** [108.3] (Building permit valuations) of the *I.B.C.*, is revised to read: "Building plan review valuations. The applicant for a plan review involving an addition to an existing structure or a remodel of an existing structure shall provide an estimated building construction value at the time of application. The valuation shall include the total value of work, including materials and labor for which the plan review is being issued. The total value of work must include the electrical, gas, mechanical, and plumbing equipment and permanent systems, including fire protection systems. If, in the opinion of the building official, the valuation is underestimated on the application, the building official shall deny the plan review, unless the applicant can show detailed estimates that meet the approval of the building official. The building official shall set the final building construction valuation.

The valuation for all new construction not involving remodel work or additions to existing structures must be based on the Valuation Schedule established in 13 AAC 50.027.";

[(18) CHAPTER 2, SECTION 201.3 (TERMS DEFINED IN OTHER CODES) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*",]

(19) Chapter 2, Section 202 (Definitions) of the *I.B.C.*, is revised by adding a definition to read: "BUILDING, EXISTING, is a building that

(A) was erected before December 5, 1956; or

(B) was erected before the adoption of the **2009** [2006] *International Building Code*, **2009** [2006] *International Fire Code*, **2009** [2006] *International Mechanical Code*, and the **2009** [2006] *International Fuel Gas Code*, and complies with the building code regulations in effect at the time of construction.";

(-- Chapter 2, Section 201.3 (Terms defined in other codes) of the I.B.C., is revised by adding a new definition; Portable Mancamps – A mancamp that is on a skid and wheels as a single unit and pulled by a vehicle without separating.

(-- Chapter 2, Section 201.3 (Terms defined in other codes) of the I.B.C., is revised by adding a new definition; Relocatable Mancamps – A mancamp that is disassembled and loaded on a trailer to relocate.

(21) Chapter 3, Section 305.2 (Day care) of the *I.B.C.*, is revised by adding a new exception to read: "Exception: Family child care homes **occupied as their primary residence** (Group R-3) operating between the hours of 6:00 a.m. and 10:00 p.m. may accommodate a total of 12 children of any age without conforming to the requirements of this regulation (Group E occupancy), except for smoke detectors and alarms as described in Section 907.2.10, carbon monoxide detectors and alarms as specified in Section 422, means of egress requirements of Section 1003, including emergency escape and rescue openings, as required by Section 1026, in napping or sleeping rooms, and fire extinguisher requirements as described in the *International Fire Code*[";] **including children related to the staff.**";

(22) Chapter 3, Section 308.2 (Group I-1) of the *I.B.C.*, is revised by adding a new paragraph between the first and second paragraphs to read: "Facilities within this occupancy classification that have occupants needing physical assistance to respond in emergency situations must comply with **Section 426** [SECTION 423].";

(25) Chapter 3, Section 308.5 (Group I-4, day care facilities) of the *I.B.C.*, is revised by **adding to** [CHANGING] the **first** [SECOND] sentence to read: [A FACILITY SUCH AS THE ABOVE WITH FIVE OR FEWER PERSON,] "including persons related to the staff. [,SHALL BE CLASSIFIED AS A GROUP R-3.]";

(-- Chapter 3, Section 308.5.1 (Adult Care Facility) of the I.B.C., is revised by deleting the exception;

(26) Chapter 3, Section 310.1 (Residential Group R) of the *I.B.C.*, is revised by adding a new paragraph between the first and second paragraphs to read: "For facilities within this occupancy classification that have occupants needing physical assistance to respond in emergency situations, see **Section 426** [SECTION 419].";

(-- Chapter 3, Section 310.1 (Residential Group R-4) of the I.B.C., is revised by adding a sentence to the end of the first paragraph to read: "Foster Homes: Once a provider takes in six or more (non-related) children, the occupancy is defined as an R-4, otherwise the occupancy is R-3".

(28) Chapter 4, Section **412.4.1** [412.2.1] (Exterior walls) of the *I.B.C.*, is revised by deleting "30 feet (9 144 mm)" and replacing it with "20 feet (6,098 mm)";

[(29) CHAPTER 4, SECTION 415.6.4 (DRY CLEANING PLANTS) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*INTERNATIONAL PLUMBING CODE*” AND REPLACING IT WITH “PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME’;]

(30) Chapter 4 (Special Detailed Requirements Based on Use and Occupancy) of the *I.B.C.*, is revised by adding new **Section 424** [SECTION 421] (Special Security Requirements for Elevated Buildings), **Section 425** [SECTION 422] (Carbon Monoxide Detectors and Alarms), and **Section 426** [SECTION 423] (Occupants Needing Special Assistance) (Group I-1 and R-4) to read:

SECTION 424 [SECTION 421]

SPECIAL SECURITY REQUIREMENTS FOR ELEVATED BUILDINGS

424.1 [421.1] All elevated buildings with the lower floor level above grade and open on the sides must be fenced around the building exterior or have skirting below the exterior walls to prevent unauthorized access, **if building is higher than two feet to the underside of floor framing.**

Exceptions:

1. Normally unoccupied buildings;
2. Buildings **of** [WITH] F, H, S, and U occupancies.

SECTION 425 [SECTION 422]

CARBON MONOXIDE DETECTORS AND ALARMS

425.1 [422.1] (Carbon Monoxide Detectors and Alarms) The provisions of this section shall apply to Groups I-1, I-2, and all R occupancies. At least one carbon monoxide detector or alarm shall be installed on each floor level. If a floor level contains bedrooms or sleeping rooms, at least one detector shall be located in the immediate vicinity of the sleeping area, outside of the bedrooms or sleeping rooms. Carbon monoxide detectors and alarms shall be installed in accordance with their listing. The alarm shall be clearly audible in all sleeping rooms, even if the intervening doors are closed.

Exceptions:

1. Carbon monoxide detectors and alarms are not required in dwelling units and structures that have **all the following:**

A. no combustion appliances;[,]

B. no attached garage [,OR];and

C. no [OTHER] vehicle parking within 25 feet of any direct **air intake** opening.

[. CARBON MONOXIDE DETECTORS AND ALARMS ARE NOT REQUIRED IN DWELLING UNITS AND STRUCTURES THAT HAVE ONLY DIRECT VENT COMBUSTION APPLIANCES, AND NO ATTACHED GARAGE, OR OTHER VEHICLE PARKING WITHIN 25 FEE OF ANY DIRECT OPENING.]

2. Carbon monoxide detectors and alarms are not required if all combustion equipment is located within a mechanical room separated from the rest of the building by construction capable of resisting the passage of smoke. If the structure has an attached and enclosed parking garage, the garage shall be ventilated by an approved automatic carbon monoxide exhaust system designed in accordance with the **2009** [2006] *I.M.C.*

425.2 [422.2] Interconnection. In new construction, all carbon monoxide detectors and alarms located within a single dwelling unit shall be interconnected in such a manner that actuation of one alarm shall activate all of the alarms within the individual dwelling unit.

425.3 [422.3] Power source. In new construction, carbon monoxide detectors and alarms shall receive their primary power from the building wiring if the wiring is served from a commercial source, and shall be equipped with a battery backup. Wiring shall be permanent and without a disconnecting switch other than what is required for overcurrent protection. In existing construction, carbon monoxide detectors and alarms may be powered by battery or a cord-and-plug with battery backup.

SECTION 426 [SECTION 423]

OCCUPANTS NEEDING PHYSICAL ASSISTANCE

426.1 [423.1] Applicability. The provisions of this section apply to all Groups I-1 and R-4 occupancies where the occupants need physical assistance from staff or others to respond to emergencies.

426.2 [426.2] Definitions. In this section

"Evacuation Capability" means the ability of occupants, residents, and staff as a group either to evacuate a building or to relocate from the point of occupancy to a point of safety;

"Point of Safety" means a location that (a) is exterior to and away from a building; or (b) is within a building of any type construction protected throughout by an approved automatic sprinkler system and that is either (1) within an exit enclosure meeting the requirements of Section 1020; or (2) within another portion of the building that is separated by smoke partitions

meeting the requirements of Section 710, with not less than a one-half hour fire resistance rating, and the portion of the building has access to a means of escape or exit that conforms to the requirements of this code and does not require return to the area of the fire."

426.3 [423.3] Fire Drills **and** [AND] Evacuation Capability Determination. The initial determination of evacuation capability will be determined by a fire drill conducted by a fire code official or by an employee of the Department of Health and Social Services responsible for licensing the facility. Changes to the evacuation capability will be made by a fire code official, based on a record of fire drills conducted by the facility staff. The drills will be conducted six times a year on a bimonthly basis, with at least two drills conducted during the night when residents are sleeping. Records must indicate the time taken to reach a point of safety, date and time of the drill, location of simulated fire origin, escape paths used, and comments relating to residents who resisted or failed to participate in the drills.

426.4 [423.4.] Evacuation Capability and Fire Protection Requirements. Fire protection requirements of a facility under this section are as follows:

426.4.1 [423.4.1] Prompt Evacuation Capability. Evacuation capability of three minutes or less indicates prompt evacuation capability. In facilities maintaining prompt evacuation capability, the requirements of the code for Groups I-1 or R-4 occupancies must be followed.

426.4.2 [423.4.2] Slow Evacuation Capability. Evacuation capability of more than three but less than 14 minutes indicates slow evacuation capability. In facilities maintaining slow evacuation capability, the facility must be protected by (a) an automatic smoke detection system, using addressable smoke detectors, designed and installed in accordance with the provisions of this code and N.F.P.A. 72 [2007]; and (b) an automatic sprinkler system, with quick-response or residential sprinklers, installed in accordance with section 903.3.1.2 (*N.F.P.A.* 13R [20107] (Sprinkler Systems)) [OR 903.3.1.3 (*N.F.P.A.* 13D-2007 (SPRINKLER SYSTEMS))].

426.4.3 [423.4.3] Impractical Evacuation Capability. Evacuation capability of 14 minutes or more indicates impractical evacuation capability. In facilities maintaining impractical evacuation capability, the facility must be protected by (a) the protections for a facility with slow evacuation capability under **Section 426.4.2** [SECTION 423.4.2]; (b) one-half hour fire-resistive construction throughout the facility; and (c) direct egress from sleeping rooms for occupants needing evacuation assistance either (i) to the exterior at grade level, to an exterior porch or landing via a three **foot** [FEET] **six**[60] **inch** [INCHES] wide door; or (ii) if the sleeping rooms are separated from the rest of the building by smoke partitions installed in accordance with Section 710, by egress windows conforming to the provisions of Section 1026.

(31) Chapter 5, (General Building Heights **and** [AND] Areas) of the *I.B.C.*, is revised by adding a new Section 501.3 to read: "501.3 Location on property. Buildings must adjoin or have access to a permanent public way or yard on not less than one side. Required yards by this section must be permanently maintained.";

(32) Chapter 5, Section 504 (**Building** Height) of the *I.B.C.*, is revised by adding a new Section 504.4 to read: "504.4 Day care facilities. Facilities that are operated in a primary residence (Group R-3) between the hours of 6:00 a.m. and 10:00 p.m., and accommodating up to a total of 12 children of any age may use the second story of the building without providing an automatic sprinkler system, or complying with **Table 508.4** [TABLE 302.3.2], Table 602, and the Type VA requirements set out in Table 503, if all other applicable legal provisions for a Group E Occupancy are met.";

(33) Chapter 5, **Table 508.2.5** [TABLE 508.2] (Incidental **Accessory Occupancies** [USE AREAS]) of the *I.B.C.*, is revised by changing the wording in the first block under the left column to read: "Furnace rooms in Group E, I, and R-1, R-2, and R-4 occupancies regardless of Btu input, and furnace rooms of all other occupancies where the largest piece of equipment is over 400,000 Btu per hour input";

(--) Chapter 6, Table 602 (Fire Resistance Rating Requirements for Exterior Walls based on Fire Separation Distance) add footnote h; Combination shops related to an educational facility shall be considered an F-1 occupancy and shall be separated from the E occupancy according to this table.

(--) Chapter 6, Section 603.1.3 (Electrical) adds 603.1.3.1 to read: Electrical weatherheads should be installed on the gable ends when a metal roof is installed.

(--) Chapter 7, Section 705.2 (Projections) is revised by adding to item 2, at the end of the first sentence "or fire separation distance in the absence of a lot line";

(--) Chapter 8, Section 804.4.1 (Minimum Critical Radiant Flux) of the *I.B.C.*, is revised by requiring I-1, I-2, and I-3's shall utilize class I floor coverings;

(37) Chapter 9, Section 903.2.3 (Group E) of the *I.B.C.*, is revised to read: "Group E. An automatic sprinkler system must be provided throughout all buildings with Group E occupancies. **The use of a fire wall or barrier does not establish a separate building or fire area for purposes of this section.** [AN AUTOMATIC SPRINKLER SYSTEM MUST ALSO BE PROVIDED FOR EVERY PORTION OF EDUCATIONAL BUILDINGS BELOW THE LEVEL OF EXIT DISCHARGE.]

Exception: Buildings with Group E occupancies having an occupant load of 49 or less.

An automatic sprinkler system must also be provided for every portion of educational buildings below the level of exit discharge.

Home Day care uses that are licensed to care for more than five persons between the hours of 10:00 p.m. and 6:00 a.m. must be equipped with an automatic sprinkler system designed and installed as described in Section 903.3.1.3 or an equivalent system approved by the building official.";

(38) Chapter 9, **Section 903.2.8** [SECTION 903.2.7] (Group R) of the *I.B.C.*, is revised to read: "Group R. An automatic sprinkler system must be installed in Group R occupancies **except** as required in **903.2.8.1** [903.2.7.1] through **903.2.8.2** [903.2.7.3]";

(39) Chapter 9 of the *I.B.C.* is revised by adding a new Section **903.2.8.1** [903.2.7.1] to read: "**903.2.8.1** [903.2.7.1] Group R-1. **(Health Clinics with Transient Quarters) may utilize a 13D sprinkler system throughout the building; a fire barrier may be utilized to separate the building and utilize a 13R. In addition, Rental cabins with potable water with stays less than 30 days will be considered R-1's and will be required to follow this section.**"; [AN AUTOMATIC SPRINKLER SYSTEM OR A RESIDENTIAL SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.2 MUST BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R-1 FIRE AREA",]

(40) Chapter 9 of the *I.B.C.* is revised by adding a new Section **903.2.8.2** [903.2.7.2] to read: "**903.2.8.2** [903.2.7.2] Group R-2. An automatic sprinkler system or a residential sprinkler system installed in accordance with Section 903.3.1.2 must be provided throughout all buildings with a Group R-2 fire area that are more than two stories in height, including basements, or that have more than **four** [SIXTEEN] dwelling units or **16** sleep rooms.";

[(41) CHAPTER 9 OF THE *I.B.C.* IS REVISED BY ADDING A NEW SECTION 903.2.7.3 TO READ: "903.2.7.3 GROUP R-4. AN AUTOMATIC SPRINKLER SYSTEM OR A RESIDENTIAL SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.2 MUST BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R-4 FIRE AREA":]

(42) Chapter 9, Section 903.3.1.1 of the *I.B.C.*, is revised by adding a new Section 903.3.1.1.2 to read: "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 *N.F.P.A.* 13 [-2007], (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 8 AAC 77.005, as amended as of June 14, 2006 and as amended from time to time" **and the fire sprinkler head for the top of elevator shafts may have a globe valve installed so the single head can be turned off in an emergency. The globe 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 [-2007], and adopted by reference; and

(3) notification of alarm activation is received at a constantly monitored location.";

(4) fire extinguisher is provided in the elevator machine room;

(-- Chapter 9, Section 903.3.1.1 of the I.B.C., is revised by adding a new Section 903.3.1.1.3 to read: "903.3.1.1.3 (Inspectors Test Valve). A test valve will be installed at the remote area in both dry and wet systems to equal the required flow of one sprinkler head. In locations that use floor control valves the inspector test valve may be collocated. It can be installed to the exterior or to an interior drain.;

[(43) CHAPTER 9, SECTION 903.3.5 (WATER SUPPLIES) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(45) CHAPTER 9, SECTION 904.3.1 (ELECTRICAL WIRING) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(49) Chapter 9, Section 906.1 (Where required) of the I.F.C., is revised by deleting the exception in number 1;

(46) Chapter 9, **Section 907.1.2** [SECTION 907.1.1] (**Fire alarm shop drawings** [CONSTRUCTION DOCUMENTS]) of the *I.B.C.*, is revised by adding the following required **fire alarm shop drawings** [CONSTRUCTION DOCUMENTS] for plan review:

14. [12] System riser diagrams.;

15. fire system designer stamp, signature, date;

(-- Chapter 9, Section 907.2.1 (Group A) of the I.B.C., is revised to replace the exception to read: "A manual fire alarm system shall be installed in Group A-2 occupancies with an occupant load of 100 or more";

(-- Chapter 9, Section 907.2.2 (Group B) of the I.B.C., is revised by deleting the exception;

(48) Chapter 9, Section 907.2.3 (Group E) of the *I.B.C.*, is revised by adding a second paragraph to read: "Rooms used for sleeping or napping purposes within a day care use of a Group E occupancy must be provided with smoke alarms that comply with **Section 907.2.11.2.** [SECTION 907.2.10.1.2], **and deleting Exception 3**";

(-- Chapter 9, Section 907.2.4 (Group F) of the I.B.C., is revised by deleting the exception;

(-- Chapter 9, Section 907.2.7 (Group M) of the I.B.C., is revised by deleting exception 2;

(-- Chapter 9, Section 907.2.8.1 (Manual Fire Alarm System) of the I.B.C., is revised by deleting exception 2;

(-- Chapter 9, Section 907.2.9.1 (Manual Fire Alarm System) of the I.B.C., is revised by deleting exception 2;

(-- Chapter 9, Section 907.2.10.1 (Manual Fire Alarm System) of the I.B.C., is revised by deleting exception 2;

(50) Chapter 9, **Section 907.2.11** [SECTION 907.2.10] (Single- and multiple-station smoke alarms) of the *I.B.C.*, is revised by adding a second paragraph to read: "When a plan review is required for an existing Group R occupancy, smoke alarms must be installed as described in **Section 907.2.11** [SECTION 907.2.10].";

[(51) CHAPTER 9, SECTION 907.2.10.1.3 (GROUP I-1) OF THE *I.B.C.*, IS REVISED BY DELETING THE EXCEPTION;]

[(52) CHAPTER 9, SECTION 907.5 (WIRING) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(53) Chapter 9, **Section 907.7.2** [SECTION 907.17] (Record of completion) of the *I.B.C.*, is revised by adding a new sentence to read: "A copy of the acceptance test certificate verifying completion in accordance with *N.F.P.A 72* [2007], as adopted by reference, must be forwarded by the firm conducting the test to the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] or the deferred jurisdiction having authority within 30 days of the completion of the installation.";

(-- Chapter 9, Section 907.8 (Inspection, testing and maintenance) of the I.B.C., is revised by adding a new section to read: "907.8.1 (Mancamp Relocations) On each portable or relocatable camp move, a licensed/certified electrician can disconnect and reconnect the fire alarm system, and a licensed/certified plumber can disconnect and reconnect the suppression system. The electrician/plumber must provide documentation that the system has been placed back in service and is ready for operation. Documentation is to be retained on site and available for review upon request. Annual requirements are still required by the code as referenced by 13 AAC 50.025 ().";

[(54) CHAPTER 9, SECTION 909.11 (POWER SYSTEMS) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCES TO THE “*ICC ELECTRICAL CODE*” AND REPLACING THEM WITH “ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];

[(55) CHAPTER 9, SECTION 909.12.1 (WIRING) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCES TO THE “*ICC ELECTRICAL CODE*” AND REPLACING IT WITH “ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];

[(56) CHAPTER 9, SECTION 909.16.3 (CONTROL ACTION AND PRIORITIES) OF THE *I.B.C.*, THE EXCEPTION IS REVISED BY DELETING THE REFERENCE TO THE “*ICC ELECTRICAL CODE*” AND REPLACING IT WITH “ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];

(--) Chapter 10, Section 1007.3 (Exit Stairways) of the *I.B.C.*, is revised by deleting exceptions 1-7;

(58) Chapter 10, Section 1009.1 (Stairway width) of the *I.B.C.*, is revised by adding an exception to read: "Exception 5: **Ladders** [STAIRS OR LADDERS] used only to attend equipment are exempt from the requirements of [THIS] section **1009**.";

(59) Chapter 10, **Section 1009.6.2** [SECTION 1009.5.2] (Outdoor conditions) of the *I.B.C.*, is revised by adding a sentence: "In occupancies other than Group R-3 and Group U occupancies that are accessory to Group R-3 occupancies, surfaces and landings which are part of exterior stairs in climates with snow or ice shall be designed to minimize the accumulation of the snow or ice;"

[(61) CHAPTER 10 SECTION 1014.5 (EGRESS BALCONIES) OF THE *I.B.C.*, IS REVISED BY ADDING A SENTENCE: “EXTERIOR BALCONIES SHALL BE DESIGNED TO MINIMIZE ACCUMULATION OF SNOW OR ICE THAT IMPEDES THE MEANS OF EGRESS.”];

(63) Chapter 10, **Table 1018.1** [TABLE 1017.1] (Corridor Fire-Resistance Rating) of the *I.B.C.*, is revised by adding a note to read: "**R-2** Occupancies shall be **permitted** [ALLOWED] to have a one-hour rated corridor without a sprinkler system when the corridor

1. serves any occupant load greater than 10;
2. serves less than **four** [17]dwelling units **or 16 or more sleep rooms**; and
3. is less than three stories in height.";

(--) (61) Chapter 10, Section 1019.1 (General) of the I.B.C., is revised by adding a sentence: "Exterior exit balconies shall be designed to minimize accumulation of snow or ice that impedes the means of egress.";

(64) Chapter 10, **Section 1021.1** [SECTION 1019.1] (**Exits from stories** [MINIMUM NUMBER OF EXITS]) of the I.B.C., is revised by adding an exception to read: "Exception **6**: Basements or the first level below the first story in all occupancies except Group R-3 occupancies, used exclusively for the service of the building, may have access to only one exit. Any other use of the basement or first level below the first story must have at least two exits arranged as described in **Section 1015.2** [SECTION 1014.2]. For purposes of this Exception, storage rooms, laundry rooms, maintenance offices, and similar uses may not be considered as providing service to the building.";

(65) Chapter 10, **Section 1029.1** [SECTION 1026.1] (General) of the I.B.C., is revised by deleting Exceptions 1, 2, 3, 4, and 7;

(66) Chapter 11, Section 1101.1 (Scope) of the I.B.C., is revised by deleting the first sentence and adding sentences at the end of the section to read: "Compliance review by the **Fire and Life Safety Office** [STATE FIRE MARSHAL'S OFFICE] is limited to the review of the accessible route, means of egress requirements of the code, and at least one accessible toilet room along the accessible route. Compliance with the requirements of this chapter and other provisions within this code for accessibility of persons with physical disabilities is the exclusive responsibility of the owner of the structure or design professional of record. An advisory plan review may be obtained regarding the design for accessibility of a structure from the office of the state coordinator for Americans with Disabilities Act at 801 West 10th Avenue, Suite A, Juneau, Alaska 99801; telephone (907) 465-6929.";

[(67) CHAPTER 12, SECTION 1203.3.2 (EXCEPTIONS) OF THE I.B.C., EXCEPTION 4 IS REVISED BY DELETING "IN ACCORDANCE WITH THE *INTERNATIONAL ENERGY CONSERVATION CODE*";]

[(68) CHAPTER 12, SECTION 1205.4.1 (CONTROLS) OF THE I.B.C., IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(69) CHAPTER 12, SECTION 1206.3.3 (COURT DRAINAGE) OF THE I.B.C., IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(70) CHAPTER 14, SECTION 1403.2 (WEATHER PROTECTION) OF THE I.B.C., IS REVISED BY DELETING THE WORDS "IN ACCORDANCE WITH THE *INTERNATIONAL ENERGY CONSERVATION CODE*" FROM THE LAST SENTENCE OF THE PARAGRAPH;]

[(71) CHAPTER 14, SECTION 1405.10.4 (GROUNDING) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*ICC ELECTRICAL CODE*” AND REPLACING IT WITH “ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];]

[(72) CHAPTER 15, SECTION 1503.4 (ROOF DRAINAGE) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*INTERNATIONAL PLUMBING CODE*” AND REPLACING IT WITH “PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME”];]

(73) Chapter 16, Section 1601.1 (Scope) of the *I.B.C.*, is revised by adding a second paragraph to read: "This chapter is adopted as design criteria for the structural safety of buildings constructed under this code. Review for conformance with **this criterion** [THIS CRITERIA] is not performed by the **Division of Fire and Life Safety** [OFFICE OF THE STATE FIRE MARSHAL]. Compliance with the requirements of this chapter, other provisions in this code for structural design, the Alaska Administrative Order No. 175, local government flood reduction ordinances, and federal oversight and authority through the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP) under C.F.R. 44, Parts 59 – 60 [, REVISED AS OF OCTOBER 1, 2006,] is the exclusive responsibility of the building owner or design professional of record. **Information on approaches and grants for mitigating natural hazards in construction – including seismic hazards – are available through the State of Alaska, Division of Homeland Security and Emergency Management at <http://www.ready.alaska.gov>.**";

(74) Chapter 17, Section 1701.1 (Scope) of the *I.B.C.*, is revised by adding a second paragraph to read: "The provisions of this chapter are adopted as criteria to guide the owner and the registered design professional in meeting the tests and special inspections necessary to assure conformance with the applicable standards adopted under this code. Tests and inspections required by this code are not performed by the **Division of Fire and Life Safety** [OFFICE OF THE STATE FIRE MARSHAL], but are the responsibility of the building owner or design professional of record. The findings of these tests and inspections must be kept for the life of the building.";

[(75) CHAPTER 27, SECTION 2701.1 (SCOPE) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*ICC ELECTRICAL CODE*” AND REPLACING IT WITH “ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AD OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];]

[(76) CHAPTER 27, SECTION 2702.1 (INSTALLATION) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*ICC ELECTRICAL CODE*” AND REPLACING IT WITH “ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME”];]

(-- Chapter 31, Section 3103.2 (Construction Documents) of the *I.B.C.*, is revised by adding a second sentence: Structures of less than 300 square feet in floor area

that are designed for the specific purpose of providing an enclosure for non-hazardous equipment, and not containing hazardous materials in excess of those found in Tables 307.7(1) and 307.7(2) are not required to be sealed by a registered design professional.

[(79) CHAPTER 33, SECTION 3305.1 (FACILITIES REQUIRED) OF THE *I.B.C.*, IS REVISED BY DELETING THE REFERENCE TO THE “*INTERNATIONAL PLUMBING CODE*” AND REPLACING IT WITH “PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME”];]

(80) Chapter 34, Section 3401.3 of the *I.B.C.*, is revised to read: "Compliance with other codes. Alterations, repairs, additions, and changes of occupancy to existing structures must comply with the provisions for alterations, repairs, additions, and changes of occupancy in the *International Fire Code* [2006 EDITION] as adopted by reference; [THE PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME] the *International Mechanical Code* as adopted by reference; [ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME]

(-- Chapter 34, Section 3401.4 (Alternative Compliance) of the *I.B.C.*, is revised by deleting the reference to “International Existing Building Code”;

(81) Chapter 34, **Section 3403.2** [SECTION 3403.1.1] (Flood hazard areas) of the *I.B.C.*, is revised to read: "This Section 3403 is adopted as criteria to guide the owner or the registered design professional of record. Plans are not reviewed by the office of the state fire marshal for compliance. Compliance with the requirements of this section, Alaska Administrative Order No. 175, local government flood reduction ordinances, and federal oversight and authority through the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP) under C.F.R. 44, Parts 59 - 60, [REVISED AS OF OCTOBER 1, 2006,] is the exclusive responsibility of the owner or the registered design professional of record.";

(82) Chapter 34, **Section 3408** [SECTION 3406] (Change of Occupancy) of the *I.B.C.*, is revised by deleting **Section 3408.2** [SECTION 3406.2] (Certificate of occupancy);

(83) Chapter 34, **Section 3411.1** [SECTION 3409.1] (Scope) of the *I.B.C.*, is revised by adding a sentence at the end of the first paragraph to read: "This **Section 3411** [SECTION 3409] is adopted as a guidance for accessibility";

[(85) CHAPTER 34, SECTION 3410.3.2 (COMPLIANCE WITH OTHER CODES) OF THE *I.B.C.*, IS REVISED BY DELETING THE WORDS “AND *INTERNATIONAL PROPERTY MAINTENANCE CODE*”];]

N.F.P.A. 10-2010 [10-2007] *Portable Fire Extinguishers*;

*N.F.P.A. **13-2010** [13-2007] Installation of Sprinkler Systems;*

*N.F.P.A. **13D-2010** [13D-2007] Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes;*

*N.F.P.A. **13R-2010** [13R-2007] Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height;*

*N.F.P.A. **14-2010** [14-2007] Standpipe and Hose System;*

*N.F.P.A. **20-2010** [20-2007] Installation of Stationary Pumps for Fire Protection;*

*N.F.P.A. **72-2010** [72-2007] National Fire Alarm Code;*

*N.F.P.A. **750-2010** [750-2006] Standards on Water Mist Fire Protection Systems;*

[(87) APPENDIX OF THE I.B.C. IS REVISED BY ADDING A NEW APPENDIX K AS FOLLOWS:]

[APPENDIX K REPAIRS TO BUILDING AND STRUCTURES DAMAGED BY THE OCCURANCE OF A NATURAL DISASTER”]

[K101 PURPOSE. THE PURPOSE OF THIS APPENDIX IS TO PROVIDE A DEFINED LEVEL OF REPAIR FOR BUILDINGS OR STRUCTURES DAMAGED BY A NATURAL DISASTER IN JURISDICTIONS WHERE THE GOVERNOR HAS DECLARED A FORMAL CONDITION OF DISASTER EMERGENCY UNDER AS 26.23 BY PROCLAMATION.]

[K102 GENERAL. REQUIRED REPAIR LEVELS MUST BE BASED ON THE RATIO OF THE ESTIMATED VALUE OF THE REPAIRS REQUIRED TO RESTORE THE STRUCTURAL MEMBERS TO THEIR PRE-DISASTER CONDITION TO THE ESTIMATED REPLACEMENT VALUE OF THE BUILDING OR STRUCTURE.]

[K103 STRUCTURAL REPAIRS. WHEN THE RATIO DESCRIBED IN SECTION K102 DOES NOT EXCEED 10 PERCENT, AS DETERMINED BY DESIGN PROFESSIONALS WHO ARE PROFESSIONAL ARCHITECTS OR PROFESSIONAL ENGINEERS WHO MEET THE REQUIREMENTS OF AS 08.48 BUILDINGS AND STRUCTURES, EXCEPT ESSENTIAL FACILITIES INCLUDED AS CATEGORY III BUILDINGS AND STRUCTURES IN TABLE 1604.5 OF THIS CODE, MUST, AT A MINIMUM, BE RESTORED TO THEIR PRE-DISASTER CONDITION. WHEN THE RATIO DESCRIBED IN SECTION K102 IS GREATER THAN 10 PERCENT BUT LESS THAN 50 PERCENT, BUILDINGS AND STRUCTURES, EXCEPT ESSENTIAL FACILITIES INCLUDED AS CATEGORY III BUILDINGS AND STRUCTURES IN TABLE 1604.5 OF THIS CODE, MUST HAVE THE DAMAGED STRUCTURAL MEMBERS, INCLUDING ALL CRITICAL TIES AND CONNECTIONS ASSOCIATED WITH THE DAMAGED STRUCTURAL MEMBERS, ALL STRUCTURAL MEMBERS SUPPORTED BY THE DAMAGED

MEMBER, AND ALL STRUCTURAL MEMBERS SUPPORTING THE DAMAGED MEMBERS REPAIRED AND STRENGTHENED TO BRING THEM INTO COMPLIANCE WITH THE FORCE LEVELS AND CONNECTION REQUIREMENTS OF THIS CODE. THESE REQUIREMENTS APPLY TO THOSE ESSENTIAL FACILITIES WHEN THE RATIO DESCRIBED IN SECTION K102 IS LESS THAN 30 PERCENT.]

[EXCEPTION: FOR BUILDINGS OR STRUCTURES WITH RIGID DIAPHRAGMS WHERE THE ABOVE-REQUIRED REPAIR AND STRENGTHENING INCREASES THE RIGIDITY OF THE RESISTING MEMBERS, THE ENTIRE LATERAL FORCE-RESISTING SYSTEM OF THE BUILDING OR STRUCTURE MUST BE INVESTIGATED.]

[WHEN, IN THE OPINION OF THE BUILDING OFFICIAL, AN UNSAFE OR ADVERSE CONDITION HAS BEEN CREATED AS A RESULT OF THE INCREASE IN RIGIDITY, THE CONDITION MUST BE CORRECTED. WHEN THE RATIO DESCRIBED IN SECTION K102 IS GREATER THAN 50 PERCENT, BUILDINGS AND STRUCTURES, EXCEPT ESSENTIAL FACILITIES INCLUDED AS CATEGORY III BUILDINGS AND STRUCTURES IN TABLE 1604.5 OF THIS CODE, MUST, AT A MINIMUM, HAVE THE ENTIRE BUILDING OR STRUCTURE STRENGTHENED TO COMPLY WITH THE FORCE LEVEL AND CONNECTION REQUIREMENTS OF THIS CODE. THESE REQUIREMENTS APPLY TO ESSENTIAL FACILITIES WHEN THE RATIO DESCRIBED IN SECTION K102 IS GREATER THAN OR EQUAL TO 30 PERCENT.]

[K104 NONSTRUCTURAL REPAIRS TO LIGHT FIXTURES AND SUSPENDED CEILINGS. UNDER ALL RATIOS CALCULATED UNDER K102, WHEN LIGHT FIXTURES AND THE SUSPENSION SYSTEMS OF A SUSPENDED ACOUSTICAL CEILING ARE DAMAGED, THE DAMAGED LIGHT FIXTURES AND SUSPENSION SYSTEMS MUST BE REPAIRED TO FULLY COMPLY WITH THE REQUIREMENTS OF SECTION 803.9.1.1 OF THIS CODE. UNDAMAGED LIGHT FIXTURES AND SUSPENSION SYSTEMS MUST HAVE THE ADDITIONAL SUPPORT AND BRACING THAT IS REQUIRED IN SECTION 803.9.1 OF THIS CODE.";]

(88) Appendix of the *I.B.C.* is revised by adding [A NEW] APPENDIX L as follows:

"APPENDIX L OIL AND GAS INDUSTRIAL PROCESSING BUILDINGS

L101 General. These provisions have been established to provide engineering methods for the design and construction of Hydrocarbon Processing Buildings in this state.

L102 Scope. These standards supersede the respective requirements of the **2009** [2006] *International Building Code (I.B.C.)*, *International Mechanical Code (I.M.C.)*, *International Fire Code (I.F.C.)* and *International Fuel Gas Code (I.F.G.C.)* as the minimum requirements for occupancies **(F, H, S and U)** when designing and constructing hydrocarbon **(facilities that are directly connected with the transport or processing of oil and gas or by-products)** buildings in this state. **These standards apply to industrial occupancies attached to H-2 buildings such**

as the following: control rooms, offices, break rooms, warehouses, generator enclosures, vehicle storage, and others as approved by the Authority Having Jurisdiction(AHJ).

L102.2 Small unoccupied **remote dedicated** structures, shelters, and enclosures, such as a wellhead shelter (any item that is put over the top of the wellhead that totally encloses the wellhead), communications shelters (unoccupied buildings with no hazardous vapors, gases, or products open to the atmosphere within the structure and that is utilized solely for the housing of wires and their components), **pigging enclosures**, meter building, and shut-down valve enclosures may be classified as a Group U occupancy if the following conditions are met:

1. The building is less than 1,000 square feet;
2. The contents of the building include only meters, valves, or pipe work;
3. The building is not normally occupied more than once during a 12-hour period; [AND]
4. If the building exceeds **300** [250-300] square feet, the building has at least two exits;

5. Remote is defined as a location that is secured and has limited or no public access and where no other occupied non-oil and gas related buildings or structures are located within one half mile of a flare or emergency process safety blow down exhaust termination.;

6. Dedicated is defined as housing only equipment associated with a single activity such as metering or pigging.

L102.3 Structures that meet the requirements of Section L102.2 shall neither require conformance with I.B.C. Section 1604.4 nor a professional engineer's registration number or seal on plans if all of the following conditions exist:

1. The building is less than 300 square feet;

2.The building is pre-manufactured;

3.The pre-manufactured building is based on the manufacture's experience or the building has been load tested for the site location conditions.

L102.4 Factory fabricated structures of less than 400 square feet in area, singularly or aggregate, that are designed for the specific purpose of providing an enclosure for non-hazardous equipment and not containing hazardous materials in excess of those found in IFC Tables 307.7(1) and 307.7(2) are exempt from plan review in accordance with I.B.C. 105.2. Any structure shall not be occupied for any reason other than maintenance and service of equipment housed within the structure.

L103 Hydrocarbon processing buildings are considered Special Industrial Occupancies as defined in IBC 503.1.1 and are therefore exempt from the height and area limitations of IBC Table 503.[BASIC ALLOWABLE MODULE SIZE, HEIGHT, AND SEPARATION. THE BASIC ALLOWABLE MODULE, SIZE, HEIGHT, AND SEPARATION FOR HYDROCARBON PROCESSING BUILDINGS MUST COMPLY WITH APPENDIX L103.1- L103.3 OF THIS CODE]

L103.1 [AREA AND HEIGHT]. [THE MAXIMUM ALLOWABLE FLOOR AREA FOR HYDROCARBON PROCESSING BUILDINGS USING A MINIMUM OF TYPE IIB CONSTRUCTION IS 10,000 SQUARE FEET AND THE BUILDING MAY ONLY BE ONE STORY. THE MAXIMUM ALLOWABLE HEIGHT SHALL BE 65 FEET; THE REFERENCE DATUM SHALL BE THE TOP OF THE FIRST FLOOR FRAMING SYSTEM. PENTHOUSE AND ROOF STRUCTURES ARE PERMITTED TO EXTEND ABOVE THE 65 FOOT HEIGHT LIMIT TO MEET SPECIAL REQUIREMENTS, INCLUDING AERIAL COOLERS, TOWERS, AND TOWER ENCLOSURES. ALLOWABLE AREA AND BUILDING HEIGHT INCREASES PERMITTED BY SECTIONS 504 AND 506 OF THE *I.B.C.* DO NOT APPLY.]

[L103.1.1 SERVICE AREA PLATFORMS. AN ELEVATED PLATFORM OR SERIES OF PLATFORMS OF HYDROCARBON PROCESSING BUILDINGS MAY NOT BE CLASSIFIED AS A FLOOR OR MEZZANINE WITHIN A BUILDING, AND ARE NOT SUBJECT TO THE REQUIREMENTS OF SECTION 505 OF THE *I.B.C.* ACCESS AND EGRESS REQUIREMENTS FOR SERVICE AREA PLATFORMS MUST BE SERVED BY AT LEAST TWO EXITS PER LEVEL, WITH ONE BEING DIRECTLY TO AN EXTERIOR STAIR. PLATFORMS MUST BE CONSTRUCTED OF GRATING-TYPE MATERIAL SO THAT THE MAIN FLOOR LEVEL BELOW IS VISABLE THROUGH THE PLATFORM. UPPER SERVICE AREA PLATFORMS MUST BE KEPT TO THE MINIMUM SIZE THAT IS NECESSARY TO ACCOMPLISH OCCASSIONAL SERVICE, OPERATING DUTIES AND SAFE EGRESS. VIRTUAL WALL TO WALL GRATING ON UPPER LEVELS IS CONSIDERED A STORY AND MUST BE INCLUDED IN FLOOR AREA CALCULATIONS.]

L103.[2]**1** Module separation. [HYDROCARBON PROCESSING BUILDINGS MUST COMPLY WITH THE PROVISIONS OF SECTION 501.2 AS AMENDED BY THIS CODE AND SECTIONS 704 AND 721.6.2.3 OF THE *I.B.C.*, FOR ALL OCCUPANCIES.] Elevated pipe ways extending from a building **need not** [MAY NOT] be considered **projections** [“EXTENSIONS”] of the building.

L104 Stairs, landings, handrails, and guardrails. Stairs, landings, handrails, and guardrails must meet the minimum requirements of 8 AAC 61, as amended as of **October 6, 2002** [MARCH 9, 2001] and as amended from time to time; these regulations supersede the respective requirements of the *I.B.C.*

L104.1 **Landings**, Floor level at doors. Floors or landings may be more than one inch lower than the threshold of doorways if an attempt is made to minimize the drop through the use of ramps at interior doorways as described in **Section 1008.1.6** [SECTION 1008.3.1.6] of the *I.B.C.*

L104.2 In areas that are fenced or guarded and not open to the public in group B,F, H,R-1 R-2 or S occupancies, balusters, horizontal intermediate rails or other construction shall not permit a sphere with a diameter of 21 inches (533mm) to pass through any opening.

L105 Construction specifics. The construction of Hydrocarbon Processing Buildings must comply with **Appendix L105.1 - L105.3** [APPENDIX L105.1 – L105.4] of this Code.

L105.1 Fire walls. When a fire wall is used to qualify under Section 705 of the *I.B.C.*, the wall must comply with that section. If the fire wall does not extend to the ground, the structural supports for the wall must rest upon, and be completely supported by the pilings.

L105.2 Tank support fireproofing. Fire proofing requirements for steel tank supports, as described in **Section 3404.2.9.2.3** [SECTION 3404.2.9.1.3] of the *I.F.C.* [2006 EDITION] as adopted by reference, may be waived by the [AUTHORITY HAVING JURISDICTION] **AHJ** [BUILDING OFFICIAL] when justified, based on the remoteness of the facility and lack of public access, or analytical or empirical results indicating that sufficient heat could be transmitted to the permafrost to cause foundation settlement.

L105.2.1 Tank venting and relief requirements for tanks and pressure vessels storing class 1B or 1C liquids described in Sections 3404.2.7.3.6 and 3404.2.7.4 of the I.F.C. (2009 edition) may be satisfied by the use of properly sized open vents without flame arrestors. When open vents are utilized they shall be configured to minimize the accumulation of snow and ice.

L105.3 Foam plastic insulated building panels. For hydrocarbon processing buildings used in the actual processing of hydrocarbons and, not normally used in other mineral extraction or manufacturing activities, foam plastic insulated building panels used on these buildings shall apply a foam plastic insulated building panel with a thermal barrier with an index of 15. Factory Mutual approval Standard 4880 or Underwriters Laboratory (UL) Subject 1040 are acceptable tests for the purposes of approval under Section 2603.4 of the I.B.C.

L105.4 Electrical or communication equipment shelters and wellhead shelters. Thermal barrier requirements as described in Section 2603.4 of the I.B.C. are not required for fiberglass or metal sheeting used for construction of electrical or communication equipment shelters and wellhead shelters if the following conditions are met:

- 1. The area of an individual shelter may not exceed 1,000 square feet;**
- 2. Each wellhead shelter shall only enclose one wellhead;**
- 3. Electrical or communication shelter or wellhead shelter must normally be unoccupied. It is understood that operators need to spend approximately 10 minutes per day taking readings in wellhead shelters and that maintenance is infrequently required. The most extensive maintenance is well wireline work. This work may extend to a week per well and**

occur once every several year per well. Most of this work is accomplished from outside the well head shelter. All maintenance is strictly controlled with a permit system;

4. Electrical or communication shelters designed with workstations in the facility do not qualify for this modification.

5. With the exception of well head shelters, separation between individual shelters shall be a minimum of six feet.

[L105.3 FOAM PLASTIC INSULATED BUILDING PANELS. FOR HYDROCARBON PROCESSING BUILDINGS USED IN THE ACTUAL PROCESSING OF HYDROCARBONS AND, NOT NORMALLY USED IN OTHER MINERAL EXTRACTION OR MANUFACTURING ACTIVITIES, FOAM PLASTIC INSULATED BUILDING PANELS USED ON THESE BUILDINGS SHALL APPLY A FOAM PLASTIC INSULATED BUILDING PANEL WITH A THERMAL BARRIER WITH AN INDEX OF 15. FACTORY MUTUAL APPROVAL STANDARD 4880 OR UNDERWRITERS LABORATORY (UL) SUBJECT 1040 ARE ACCEPTABLE TESTS FOR THE PURPOSES OF APPROVAL UNDER SECTION 2603.4 OF THE *I.B.C.*]

[L105.4 ELECTRICAL OR COMMUNICATION EQUIPMENT SHELTERS AND WELLHEAD SHELTERS. THERMAL BARRIER REQUIREMENTS AS DESCRIBED IN SECTION 2603.4 OF THE *I.B.C.* ARE NOT REQUIRED FOR FIBERGLASS OR METAL SHEETING USED FOR CONSTRUCTION OF ELECTRICAL OR COMMUNICATION EQUIPMENT SHELTERS AND WELLHEAD SHELTERS IF THE FOLLOWING CONDITIONS ARE MET:

1. FOAM USED MUST MEET THE REQUIREMENTS DESCRIBED IN SECTION 2603.3 OF THE *I.B.C.*;
2. THE AREA OF AN INDIVIDUAL SHELTER MAY NOT EXCEED 1,000 SQUARE FEET;
3. SEPARATION BETWEEN INDIVIDUAL SHELTERS MUST BE A MINIMUM OF SIX FEET;
4. EACH WELLHEAD SHELTER SHALL ONLY ENCLOSE ONE WELLHEAD;
5. THE ELECTRICAL OR COMMUNICATION SHELTER OR WELLHEAD SHELTER MUST NORMALLY BE UNOCCUPIED. IT IS UNDERSTOOD THAT OPERATORS NEED TO SPEND APPROXIMATELY 10 MINUTES PER DAY TAKING READINGS IN WELLHEAD SHELTERS AND THAT MAINTENANCE IS INFREQUENTLY REQUIRED. THE MOST EXTENSIVE MAINTENANCE IS WELL WIRELINE WORK. THIS WORK MAY EXTEND TO A WEEK PER WELL AND OCCUR ONCE EVERY SEVERAL YEAR PER WELL. MOST OF THIS WORK IS ACCOMPLISHED FROM OUTSIDE THE WELLHEAD SHELTER. ALL MAINTENANCE IS STRICTLY CONTROLLED WITH A PERMIT SYSTEM;
6. THE ELECTRICAL OR COMMUNICATION SHELTERS DESIGNED WITH WORKSTATIONS IN THE FACILITY DO NOT QUALIFY FOR THIS MODIFICATION.]

L106 Fire suppression. The provisions in **Sections L106.1 - L106.3** [SECTION L106.1 – L106.3] establish the standards for fire suppression at Oil and Gas Hydrocarbon Processing Buildings.

L106.1 Fire Extinguishing System. An automatic sprinkler system as specified in I.B.C. section 903.2.5.1 or alternative automatic fire extinguishing system need not be provided in Group H-2 occupancy compressor modules, dehydration modules, metering modules and heater/separator modules if the following conditions are met:

1. **The module under consideration primarily handles natural gas and its by-products.**
2. **The module is located within a secured site with controlled access.**
3. **The module is normally unoccupied.**
4. **Significant quantities of Class I or Class II liquids are not present.**
5. **The aggregate module area under consideration is less than 1,500 square feet.**
6. **Module construction features panelized type exterior walls that will provide for venting in the event of over pressurization.**
7. **Combustible gas detection is provided.**
8. **A mechanical ventilation system capable of providing the following is provided:**
 - i. **Minimum four air changes per hour operating continuously.**
 - ii. **Minimum 12 air changes an hour upon detection of combustible or flammable vapors in excess of 20% LEL.**

Upon detection of combustible or flammable vapors in excess of 40% LEL Process Safety Management features are automatically initiated to reduce or eliminate the fuel load.

9.
 - a. **Module location complies with I.B.C. section 705.3.**

L106.2 [L106.1] Alternate Automatic Fire-Extinguishing (AAFE). **Automatic** [. SYSTEM AUTOMATIC] activation for gas detection (**inerting** [HALON] **or suppression agent**) in areas of Hydrocarbon Processing Buildings where (1) both fire and explosion hazards exist, (2) both fire and gas detection systems are (**interconnected and or independently**) installed, (3) the fire and gas detection devices alarm at a continuously staffed control room and trained operators can quickly respond to the fire and gas alarms following specific fire and gas alarm response procedures, and (4) collateral fire damage is likely to be minimal, the following (AAFE) operating activation mode is acceptable: Automatic activation of the (AAFE) system upon gas detection coupled with manual activation of the same (AAFE) system on fire detection **is approved.**

L106.3 [L106.2] Manual activation of total flooding fire suppression systems [(HALON)]. In areas where (1) the only hazard is fire, not explosion, (2) fire detection devices alarm at continuously staffed control rooms, (3) trained operators can quickly respond to the fire alarms following specific fire alarm response procedures, and (4) collateral fire damage is likely to be minimal, manual activation of the total flooding fire suppression agent is acceptable. These areas also include continuously staffed control rooms.

(--) Appendix of the I.B.C. is revised by adding a new Appendix M as follows:

**"APPENDIX M : CENTERS FOR MEDICARE/MEDICAID SERVICES (CMS)
VOLUNTARY REVIEW FOR CERTIFICATION OF MEDICARE/MEDICAID "**

M101.1 Scope. The provisions of this appendix apply to all facilities where a provider or supplier has voluntarily applied for certification or accreditation in the Medicare/Medicaid program meeting the requirements of and approved by CMS as specified in 42 CFR. The survey forms noted in this appendix are used for all Life Safety Compliance surveys (initial and recertification) of facilities subject to Survey and Certification inspections for Medicare/Medicaid certification. This includes, but is not limited to, Skilled Nursing Facilities (SNFs), Nursing Facilities (NFs) whether freestanding, distinct parts, or dually certified, Intermediate Care Facilities for Mentally Retarded (ICFs/MR), Ambulatory Surgical Centers (ASC), Inpatient Hospice Facilities, Program for All inclusive Care for the Elderly (PACE) facilities, Critical Access Hospitals (CAH), Psychiatric and General Hospitals, including validation surveys of accredited facilities. These survey forms also apply to complaint investigations.

M101.2 Purpose. Certification is a recommendation made by the State survey agency on the compliance of providers and suppliers with the conditions of participation, requirements for Skilled Nursing Facilities (SNFs), Nursing Facilities (NFs) whether freestanding, distinct parts, or dually certified, Intermediate Care Facilities for Mentally Retarded (ICFs/MR), Ambulatory Surgical Centers (ASC), Inpatient Hospice Facilities, Program for All inclusive Care for the Elderly (PACE) facilities, Critical Access Hospitals (CAH), Psychiatric and General Hospitals. In order to safeguard the health, welfare and safety of individuals served within a facility, it is imperative that a facility not only attain substantial compliance in each area of identified deficiencies, but that it maintain/remain in continuous compliance. The provisions established in this appendix provided the minimum standards for new facilities which voluntarily seek certification or accreditation in the Medicare/Medicaid program. These minimum standards do exceed some of the minimum occupancy requirements established within the body of this Code which are necessary to meet the requirements of the Centers for Medicare and Medicaid Services as specified in 42 CFR.

**SECTION M102
DEFINITIONS AND EQUIVALENCIES**

M102.1 Definitions. For the purposes of this appendix chapter, the terms, phrases and words listed in this section and their derivatives shall have the indicated meanings.

ACCREDITED PROVIDER or SUPPLIER. A provider or supplier that has voluntarily applied for and has been accredited by a national accreditation program meeting the requirements of an approved by CMS in accordance with Section 488.5 or Section 488.6.

CMS. The Centers for Medicare & Medicaid Services. Formerly known as the Health Care Financing Administration (HCFA), which is the federal agency responsible for administering the Medicare and Medicaid programs.

M102.2 Construction type equivalencies. For the purposes of this appendix chapter, Table M102.2 shall be utilized for cross referencing the various construction types for use in the applicable CMS forms which are in the terms of the NFPA 220, entitled, “Standard on Types of Building Construction.”

Conversion Table to NFPA 220 Construction Types for CMS Forms									
NFPA 220	Type I 443	Type I 332	Type II 222	Type II 111	Type II 000	Type III 211	Type III 200	Type IV 2HH	Type V 111
SBC	I	II	----	IV 1HR	IV UNP	V 1HR	V UNP	III	VI 1HR
UBC	---	I FR	II FR	II-1HR	II N	III-1HR	III N	IV HT	V 1HR
B/NBC	1A	1B	2A	2B	2C	3A	3B	4	5A
IBC	---	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA

TABLE M102.2
CONVERSION TO NFPA 220 CONSTRUCTION TYPES USED ON CMS FORMS

SECTION M103
APPLICATION FORMS

M103.1 Application. The following forms shall be used to verify substantial compliance with regards to Life Safety for the Department of Health and Human Services Centers for Medicare and Medicaid Services.

- 1. Form CMS-2786M entitled, Worksheet for Rating Residents.**
- 2. Form CMS-2786R entitled, “FIRE SAFETY SURVEY REPORT 2000 CODE – HEALTH CARE Medicare – Medicaid”**
- 3. Form CMS-2786S entitled, “FIRE SAFETY SURVEY REPORT SHORT FORM Medicare – Medicaid”**
- 4. Form CMS-2786T entitled, “FIRE/SMOKE ZONE* EVALUATION WORKSHEET FOR HEALTH CARE FACILITIES”**
- 5. Form CMS-2786U entitled, “FIRE SAFETY SURVEY REPORT – AMBULATORY SURGICAL CENTERS Medicare”**
- 6. Form CMS-2786V entitled, “FIRE SAFETY SURVEY REPORT - 2000 LIFE SAFETY CODE Intermediate Care Facilities for the Mentally Retarded – SMALL”**

7. Form CMS-2786W entitled, "FIRE SAFETY SURVEY REPORT - 2000 LIFE SAFETY CODE Intermediate Care Facilities for the Mentally Retarded – LARGE"

8. Form CMS-2786X entitled, "FIRE SAFETY SURVEY REPORT - 2000 LIFE SAFETY CODE Intermediate Care Facilities for the Mentally Retarded - APARTMENT HOUSE"

9. Form CMS-2786Y entitled, "FIRE SAFETY SURVEY REPORT - 2000 LIFE SAFETY CODE Intermediate Care Facilities for the Mentally Retarded - SMALL "

(--) Appendix of the I.B.C. is revised by adding a new Appendix N as follows:

"APPENDIX N REPAIRS TO BUILDING AND STRUCTURES DAMAGED BY THE OCCURRENCE OF A NATURAL DISASTER"

N101 Purpose. The purpose of this appendix is to provide a defined level of repair for buildings or structures damaged by a natural disaster in jurisdictions where the governor has declared a formal condition of disaster emergency under AS 26.23 by proclamation.

N102 General. Required repair levels must be based on the ratio of the estimated value of the repairs required to restore the structural members to their pre-disaster condition to the estimated replacement value of the building or structure.

N103 Structural repairs. When the ratio described in Section N102 does not exceed 10 percent, as determined by design professionals who are professional architects or professional engineers who meet the requirements of AS 08.48 buildings and structures, except essential facilities included as Category III buildings and structures in Table 1604.5 of this code, must, at a minimum, be restored to their pre-disaster condition. When the ratio described in Section N102 is greater than 10 percent but less than 50 percent, buildings and structures, except essential facilities included as Category III buildings and structures in Table 1604.5 of this code, must have the damaged structural members, including all critical ties and connections associated with the damaged structural members, all structural members supported by the damaged member, and all structural members supporting the damaged members repaired and strengthened to bring them into compliance with the force levels and connection requirements of this code. These requirements apply to those essential facilities when the ratio described in Section M102 is less than 30 percent.

Exception: For buildings or structures with rigid diaphragms where the above-required repair and strengthening increases the rigidity of the resisting members, the entire lateral force-resisting system of the building or structure must be investigated.

When, in the opinion of the building official, an unsafe or adverse condition has been created as a result of the increase in rigidity, the condition must be corrected. When the

ratio described in Section N102 is greater than 50 percent, buildings and structures, except essential facilities included as Category III buildings and structures in Table 1604.5 of this code, must, at a minimum, have the entire building or structure strengthened to comply with the force level and connection requirements of this code. These requirements apply to essential facilities when the ratio described in Section N102 is greater that or equal to 30 percent.

N104 Nonstructural repairs to light fixtures and suspended ceilings. Under all ratios calculated under M102, when light fixtures and the suspension systems of a suspended acoustical ceiling are damaged, the damaged light fixtures and suspension systems must be repaired to fully comply with the requirements of Section 803.9.1.1 of this code. Undamaged light fixtures and suspension systems must have the additional support and bracing that is required in Section 803.9.1 of this code.;

(--) Appendix of the I.B.C. is revised by adding a new Appendix O as follows:

“APPENDIX O FIRE SPRINKLER INCENTIVE RESIDENTIAL SAFETY STAR PROGRAM”

O101 Purpose. The purpose of the Fire Sprinkler Incentive Residential Safety Star Program is to reward those who are proactive and install residential fire sprinklers in single family residences and residences with not more than two dwelling units. This program, in concert with the insurance industry and city government provides graduated rate and property tax reductions for residential sprinkler coverage. The Division of Fire and Life Safety has established this program to rate residences based on the sprinkler coverage in the home and identifies who can install and maintain these systems.

O102 The types of residential sprinkler systems that may be installed to qualify for this program will consist of National Fire Protection Association (NFPA) 13R, 13D and 750 fine water mist systems and International Residential Code P2905 constant flow systems.

O 103 There are four ratings of the Safety Star Program.

O103.1 Platinum – Complete automatic fire sprinkler system as per NFPA 13R.

O103.2 Gold – Complete automatic fire sprinkler system as per 13D or P2905.

O103.3 Silver – Partial automatic fire sprinkler system as per 13R to cover major sources of fire hazards only covering items such as attached garages, laundry rooms, furnace rooms and kitchens.

O103.4 Bronze – Partial automatic fire sprinkler system as per 13D or P2905 to cover major sources of fire hazards only covering items such as attached garages, laundry rooms, furnace rooms and kitchens.

O104 Fine water mist systems installed to NFPA 750 may be considered an equal to the respective categories listed in N103.1 and N103.3.

O105 System design is to be accomplished by a person holding the proper permit as referenced in 13AAC 50.035 or by the automatic fire suppression system manufacturer.

O106 System installation can be accomplished by the home owner but the system must be certified complete and operational by a person who holds a permit under 13AAC 50.035. Professional automatic fire suppression system installers who hold a permit under 13AAC 50.035 may install NFPA 13R, 13D and 750 systems. Plumbers who hold an endorsement from the Alaska Department of Occupational Licensing may install P2905 systems.

O107 It is the owner's responsibility to ensure that the automatic fire suppression system is inspected and any maintenance required by the manufacturer or ordinance of the local government occur as stated and conducted as specified by 13AAC 50.035.

O108 To participate in the Fire Sprinkler Incentive Residential Safety Star Program an applicant will fill out an application as provided by the State Fire Marshal Office and submit an approved design and certification from the installer that the system was installed and is working per the particular NFPA standard employed by the home owner. In turn, the State Fire Marshal Office will issue the appropriate certificate. The owner will then be able to apply for the incentives provided by the insurance agency and local fire protection property tax exceptions as allowed by law. (Eff. 6/25/69, Register 30; am 2/21/71, Register 37; am 6/15/79, Register 71; am 1/14/81, Register 77; am 8/2/86, Register 99; am 10/28/90, Register 116; am 6/10/93, Register 126; am 3/7/96, Register 136; am 8/31/96, Register 139; am 3/27/99, Register 149; am 9/15/2001, Register 159; am 8/27/2004, Register 171; am 9/12/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.080

Editor's note: Copies of the *International Building Code, 2009 Edition* [2006 EDITION] (*I.B.C.*) may be obtained from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478; telephone: (800) 423-6587; or at www.iccsafe.org.

13 AAC 50.023 is amended to read:

13 AAC 50.023. Mechanical code. The *International Mechanical Code (I.M.C.)*, Chapters 1 - 15 and Appendix A (**2009 Edition** [2006 EDITION]), are adopted by reference to regulate all occupancies and buildings with the following revisions:

The I.M.C., is revised by deleting all the references to the "ICC Electrical Code or NFPA 70" and replacing them with "Electrical Code as adopted by 8 AAC 70.025, as amended as of September 27, 2008 and as amended from time to time";

The I.M.C., is revised by deleting all the references to the " International Fuel Gas Code" and "International Plumbing Code" and replacing them with "Plumbing Code as adopted by 8 AAC 63.010, as amended as of September 27, 2008 and as amended from time to time";

(1) Chapter 1 of the *I.M.C.* is revised by deleting **Sections 103, 104, and 106 – 110; [SECTIONS 101.2.1, 104, AND 106 – 109] is revised by deleting the words "in accordance with the *International Energy Conservation Code*";**

[(2) CHAPTER 1, SECTION 101.2 (SCOPE) OF THE *I.M.C.*, IS REVISED BY ADDING TO THE END OF THE SECTION ", CHAPTERS 6 AND 7, AND THE PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME, AND DELETING THE EXCEPTION;]

[(3) CHAPTER 2, SECTION 201.3 OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(4) CHAPTER 2, SECTION 201.3 OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(5) CHAPTER 3, SECTION 301.2 (ENERGY UTILIZATION) OF THE *I.M.C.*, IS REVISED BY DELETING THE WORDS "IN ACCORDANCE WITH THE *INTERNATIONAL ENERGY CONSERVATION CODE*";]

[(7) CHAPTER 3, SECTION 301.7 (ELECTRICAL) OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(8) CHAPTER 3, SECTION 301.8 (PLUMBING CONNECTIONS) OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

(10) Chapter 3, **Section 304.9** [SECTION 304.7] (**Clearances to combustibles construction** [CONSTRUCTION AND PROTECTION] of the *I.M.C.*, is revised to read:

"Clearances to combustible construction. Heat-producing equipment and appliances must be installed to maintain the required clearances to combustible construction as specified in the listing and manufacturer's instructions. These clearances may be reduced only in accordance with Section 308 of the *I.M.C.* Certain unlisted, heat-producing equipment shall be allowed if the equipment is installed in a manner so as to maintain the clearances to combustible construction specified in Table 304.7 of this Code. Clearances to combustibles must include considerations as door swing, drawer pull, overhead projections or shelving and window swing, shutters, coverings, and drapes. Devices such as doorstops or limits, closers, drapery ties, or guards, may not be used to provide the required clearances.";

(11) Chapter 3, **Section 304.9** [SECTION 304.7] of the *I.M.C.*, is revised by adding **Table 304.8** [TABLE 304.7 AND 304.8] to read:

" **Table 304.8** [Table 304.7] STANDARD INSTALLATION CLEARANCES, IN INCHES FOR CERTAIN UNLISTED HEAT-PRODUCING APPLIANCES

(13) Chapter 4, Section 403.3 (Ventilation rate) of the *I.M.C.*, the first sentence is revised to read: "Ventilation systems must be designed to have the capacity to supply the minimum outdoor airflow rate required in Table 403.3 based on the occupancy of the space and the occupant load or other parameter as stated herein, or in accordance with the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) Standard 62 (**2010 Edition** [2007 EDITION]) as adopted by reference.";

[(14) CHAPTER 5, SECTION 513 OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCES TO THE "ICC ELECTRICAL CODE" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(16) CHAPTER 6, SECTION 604.1 (GENERAL) OF THE *I.M.C.*, IS REVISED BY DELETING THE WORDS "AND THE *INTERNATIONAL ENERGY CONSERVATION CODE*";]

[(17) CHAPTER 7, SECTION 701.1 (SCOPE) OF THE *I.M.C.*, IS REVISED BY DELETING THE LAST SENTENCE;]

[(18) CHAPTER 7, SECTION 709.1 (GENERAL) OF THE *I.M.C.*, IS REVISED BY ADDING A SENTENCE IMMEDIATELY FOLLOWING THE FIRST SENTENCE TO READ: "COMBUSTION-AIR OPENINGS MUST BE COVERED WITH CORROSION-RESISTANT SCREEN OF NO GREATER THAN ONE-INCH (13 MM) MESH.";]

[(19) CHAPTER 8, SECTION 801.1 (SCOPE) OF THE *I.M.C.*, IS REVISED BY DELETING THE LAST SENTENCE;]

(15) Chapter 8, Section 804.1 (Direct Vent Termination) of the I.M.C., is revised by adding a second sentence; “Combustion vents for Direct Vent Chambers are at least three foot high or provide snowdrift prevention.”

[(20) CHAPTER 9, SECTION 901.1 (SCOPE) OF THE *I.M.C.*, IS REVISED BY DELETING THE LAST SENTENCE;]

[(21) CHAPTER 9, SECTION 906.1 (GENERAL) OF THE *I.M.C.*, IS REVISED BY ADDING TO THE LAST SENTENCE ", CHAPTER 6.";]

(--) Chapter 9, Section 907.1 (General) of the I.M.C., is revised by adding a second sentence to read “Commercial standard UL 2790 may be accepted as an alternative to UL 791 and residential standard UL 508 and UL 698 may not be acceptable as an alternative to UL 791.

[(22) CHAPTER 9, SECTION 908.5 (WATER SUPPLY) OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

(23) Chapter 9 (Specific Appliances, Fireplaces and Solid Fuel-Burning Equipment) of the *I.M.C.*, is revised by adding a new **Section 928** [SECTION 927] to read:

"SECTION 928 [SECTION 927] UNVENTED ROOM HEATERS

928.1 [927.1] General. Unvented room heaters shall be tested in accordance with American National Standards Institute (ANSI) Z21.11.2 (**2007 Edition** [2002 EDITION]), adopted by reference and may be installed in accordance with the conditions of the listing and the manufacturer's installation instructions.

928.2 [927.2] Prohibited use. One or more unvented room heaters may not be used as the sole source of comfort heating in a dwelling unit.

928.3 [927.3] Input rating. Unvented room heaters may not have an input rating in excess of 40,000 Btu/h (11.7 kW).

928.4 [927.4] Prohibited locations. Unvented room heaters may not be installed within Group A, E, or I Occupancies. These appliances may not be located in, or obtain combustion air from, any of the following rooms or spaces:

1. Sleeping rooms;
2. Bathrooms;
3. Toilet rooms;

4. Storage closets;
5. Surgical rooms.

Exceptions:

1. A single wall-mounted unvented room heater equipped with an oxygen depletion safety shutoff system and installed in a bathroom provided the input rating does not exceed 6,000 Btu per hour (1.76 kW) and the bathroom is not a confined space.
2. A single wall-mounted unvented room heater equipped with an oxygen depletion safety shutoff system and installed in a bedroom if the input rating does not exceed 10,000 Btu per hour (2.93 kW) and the bedroom is not a confined space.

928.5 [927.5] Room or space volume. The aggregate input rating of all unvented appliances installed in a room or space may not exceed 20 Btu/h per cubic foot of volume of the room or space. Where the room or space in which the equipment is installed is directly connected to another room or space by a doorway, archway, or other opening of comparable size that cannot be closed, the volume of such adjacent room or space may be permitted to be included in the calculations.

928.6 [927.6] Oxygen-depletion safety system. Unvented room heaters shall be equipped with an oxygen-depletion-sensitive safety shutoff system. The system shall shut off the gas supply to the main and pilot burners when the oxygen in the surrounding atmosphere is depleted to the percent concentration specified by the manufacturer, but not lower than 18 percent. The system may not incorporate field adjustment means capable of changing the set point at which the system acts to shut off the gas supply to room heater.

928.7 [927.7] Unvented log heaters. An unvented log heater may not be installed in a factory-built fireplace unless the fireplace system has been specifically tested, listed, and labeled for the use in accordance with Underwriters Laboratories (UL) 127.";

[(24) CHAPTER 10 (BOILERS, WATER HEATERS AND PRESSURE VESSELS) OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCES TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING THEM WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(27) CHAPTER 11, SECTION 1101.4 (WATER CONNECTION) OF THE *I.M.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(28) CHAPTER 11, SECTION 1101.5 (FUEL GAS CONNECTION) OF THE *I.M.C.*, IS REVISED BY ADDING TO THE END OF THE SENTENCE ", CHAPTER 7, AND THE PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(29) CHAPTER 12, SECTION 1201.1 (SCOPE), SECTION 1206.2 (SYSTEM DRAINDOWN), AND SECTION 1206.3 (PROTECTION OF POTABLE WATER) OF THE *I.M.C.*, ARE REVISED BY DELETING THE REFERENCES TO THE " *INTERNATIONAL PLUMBING CODE*" AND REPLACING THEM WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(30) CHAPTER 12, SECTION 1204.1 (INSULATION CHARACTERISTICS) OF THE *I.M.C.*, IS REVISED BY DELETING THE WORDS "SHALL CONFORM TO THE REQUIREMENTS OF THE *INTERNATIONAL ENERGY CONSERVATION CODE*," FROM THE FIRST SENTENCE;]

[(31) CHAPTER 12, SECTION 1204.2 (REQUIRED THICKNESS) OF THE *I.M.C.*, IS REVISED BY DELETING THE WORDS "TO THE THICKNESS REQUIRED BY THE *INTERNATIONAL ENERGY CONSERVATION CODE*" FROM THE FIRST SENTENCE;]

(33) Chapter 15 (Referenced Standards) of the *I.M.C.*, is revised by adding or changing the referenced standards from the publication date listed to the following edition, and these standards are adopted by reference:

*N.F.P.A. 13-2010 [13-2007] *Installation of Sprinkler Systems*;*

*N.F.P.A. 72-2010 [72-2007] *National Fire Alarm Code*;*

*N.F.P.A. 96-2011 [96-2004] *Ventilation Control and Fire Protection of Commercial Cooking Operations*.*

(Eff. 8/31/96, Register 139; am 3/27/99, Register 149; am 9/15/2001, Register 159; am 8/27/2004, Register 171; am 9/12/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.080

Editor's note: Copies of the *International Mechanical Code, 2009 Edition* [2006 EDITION] (*I.M.C.*) [(*I.B.C.*)] may be obtained from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478; telephone: (800) 423-6587; or at www.iccsafe.org.

13 AAC 50.024 is amended to read:

13 AAC 50.024. International Fuel Gas Code. The *International Fuel Gas Code* **2009 Edition** [(2006 EDITION)](*I.F.G.C.*), Chapters 6 and 7, are adopted by reference to regulate the installation of fuel gas utilization equipment, gaseous hydrogen systems and related accessories. (Eff. 9/13/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.080

Editor's note: Copies of the *International Fuel Gas Code*, **2009 Edition** [2006 EDITION] (***I.F.G.C.***) [*I.B.C.*] may be obtained from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478; telephone: (800) 284-4406 or (562) 669-0541; or at www.iccsafe.org.

13 AAC 50.025 is amended to read:

13 AAC 50.025. Fire code. The *International Fire Code* (*I.F.C.*), **Chapters 1 - 47** [CHAPTERS 1 – 45] and Appendices B - **G, I, J (2009 Edition)** [(2006 EDITION)], are adopted by reference to regulate all occupancies and buildings for the safeguarding of life and property from the hazards of fire and explosion arising from the storage, handling, and use of hazardous substances, materials, and devices, and from other conditions hazardous to life and property, with the following revisions:

The *I.F.C.*, is revised by deleting all the references to the "ICC Electrical Code or NFPA 70" and replacing them with "Electrical Code as adopted by 8 AAC 70.025, as amended as of September 27, 2008 and as amended from time to time";

The *I.F.C.*, is revised by deleting all the references to the "International Fuel Gas Code" and "International Plumbing Code" and replacing them with "Plumbing Code as adopted by 8 AAC 63.010, as amended as of September 27, 2008 and as amended from time to time";

(1) Chapter 1 (Administration) of the *I.F.C.*, is revised by deleting Sections 103, 104.2, 104.3, 104.4, 104.5, 104.6, 104.10, 104.11, 104.11.1, 104.11.2, 106, 108, 109, and 111 **is revised by deleting the reference to the "International Property Maintenance Code"; is revised by deleting the reference to the "International Residential Code";**

(2) Chapter 1 of the *I.F.C.* is revised by deleting Section 105, and the related permit requirements of Sections 301.2, **308.2** [308.4.1], 315.1, 601.2, 901.3, 1101.3, 1201.2, 1301.2, 1501.2, 1601.2, 1701.2, 1801.5, 1901.2, 2001.2, 2101.2, 2201.2, 2301.2, 2403.4, 2501.2, 2601.2, 2701.5, 2801.2, 2901.3, 3001.2, 3101.2, 3201.2, 3301.2, 3401.4, 3501.2, 3601.2, 3701.2, 3801.2, 3901.2, 4001.2, 4101.2, 4201.2, 4301.2, and 4401.2;

[3] CHAPTER 2, SECTION 201.3 (TERMS DEFINED IN OTHER CODES) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCES TO THE "INTERNATIONAL FUEL GAS CODE" AND "INTERNATIONAL PLUMBING CODE" AND REPLACING THEM

WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

(5) Chapter 2, Section 202 General Definitions of the I.F.C., is revised by adding an exception under the definition for "Educational Group E, Day care" to read: "Exception: Family child care homes (Group R-3) operating between the hours of 6:00 a.m. and 10:00 p.m. may accommodate a total of 12 children of any age without conforming to the requirements of a Group E occupancy except for (1) smoke detectors and alarms as described in Section 907.2.10; (2) carbon monoxide detectors and alarms as specified in the *International Building Code* Section 425; (3) means of egress requirements of Section 1003, including emergency escape and rescue openings, as required by Section 1025, in napping or sleeping rooms; and (4) portable fire extinguisher requirements as described in Section 906";

(6) [(5)] Chapter 2, Section 202 of the *I.F.C.*, is revised by adding a new paragraph between the first and second paragraphs of the definition for "Institutional Group I-1" in "Occupancy Classification" to read: "A facility in this occupancy classification that has occupants who need physical assistance to respond in emergency situations must comply with the **International Fire Code, Section 405** [*INTERNATIONAL BUILDING CODE*, SECTION 423].";

[(6) CHAPTER 2, SECTION 202 OF THE *I.F.C.*, IS REVISED BY ADDING AN EXCEPTION UNDER THE DEFINITION FOR "EDUCATIONAL GROUP E, DAY CARE" TO READ: "EXCEPTION: FAMILY CHILD CARE HOMES (GROUP R-3) OPERATING BETWEEN THE HOURS OF 6:00 A.M. AND 10:00 P.M. MAY ACCOMMODATE A TOTAL OF 12 CHILDREN OF ANY AGE WITHOUT CONFORMING TO THE REQUIREMENTS OF A GROUP E OCCUPANCY EXCEPT FOR (1) SMOKE DETECTORS AND ALARMS AS DESCRIBED IN SECTION 907.2.10; (2) CARBON MONOXIDE DETECTORS AND ALARMS AS SPECIFIED IN THE *INTERNATIONAL BUILDING CODE* SECTION 422; (3) MEANS OF EGRESS REQUIREMENTS OF SECTION 1003, INCLUDING EMERGENCY ESCAPE AND RESCUE OPENINGS, AS REQUIRED BY SECTION 1025, IN NAPPING OR SLEEPING ROOMS; AND (4) PORTABLE FIRE EXTINGUISHER REQUIREMENTS AS DESCRIBED IN SECTION 906";]

(8) Chapter 2, Section 202 of the *I.F.C.*, **add a** [THE] second paragraph **to** [OF] the definition for "Institutional Group I, Group I-2" is [REVISED] to read: "A facility such as one described above, with five or fewer persons including persons related to the staff, shall be classified as Group R-3.";

(9) Chapter 2, Section 202 of the *I.F.C.*, **add a** [THE] **third** [LAST] paragraph **to** [OF] the definition for "Institutional Group I, 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 two and one-half years of age or less, including children related to the staff shall be classified as Group I-2.";

[(11) CHAPTER 2, SECTION 202 OF THE *I.F.C.*, THE LAST SENTENCE OF THE DEFINITION FOR "R-3" IN "RESIDENTIAL GROUP R" OF "OCCUPANCY CLASSIFICATION" IS DELETED, AND THE LAST SENTENCE OF THE LAST PARAGRAPH OF THE DEFINITION FOR "R-4" IN "RESIDENTIAL GROUP R" OF "OCCUPANCY CLASSIFICATION" IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL RESIDENTIAL CODE*";]

(12) Chapter 2, Section 202 of the *I.F.C.*, is revised by adding a new paragraph to the definition for "R-4" in "Residential Group R" of "Occupancy Classification" between the first and second paragraphs to read: "Facilities within this occupancy classification that have occupants needing physical assistance to respond in emergency situations must comply with **the International Fire Code** [*INTERNATIONAL BUILDING CODE*], **Section 405.11** [SECTION 423].";

[(13) CHAPTER 2, SECTION 202 OF THE *I.F.C.*, IS REVISED BY ADDING A DEFINITION TO READ: "SERVICE. THE ANNUAL TEST, MAINTENANCE, OR SERVICE DEFINED AND REQUIRED BY APPLICABLE FIRE PROTECTION SYSTEM MAINTENANCE STANDARDS SET OUT IN TABLE 901.6.1.";]

[(16) CHAPTER 3, SECTION 311.1.1 (ABANDONED PREMISES) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PROPERTY MAINTENANCE CODE*";]

(17) Chapter 3, Section 311.5 (Placards) of the *I.F.C.*, is revised by deleting this section;

(18) Chapter 4, Section 401.3 (Emergency **Responders** [FORCES] notification) of the *I.F.C.*, the first sentence is revised to read: "In the event an unwanted fire occurs on a property, the owner or occupant shall immediately report the conditions to the registered fire department having jurisdiction.";

(19) Chapter 4, Section 404.2 (Where required) of the *I.F.C.*, is revised **to read** [BY DELETING] paragraph 1: **"Group A."**;

(23) Chapter 4, Section 405 (Emergency evacuation drills) of the I.F.C., is revised by adding new Section 405.11 to read: "405.11 (Occupants Needing Physical Assistance) (Group I-1 and R-4)":

SECTION 405.11

OCCUPANTS NEEDING PHYSICAL ASSISTANCE

405.11.1 Applicability. The provisions of this section apply to all Groups I-1 and R-4 occupancies where the occupants need physical assistance from staff or others to respond to emergencies.

405.11.2 Definitions. In this section

"Evacuation Capability" means the ability of occupants, residents, and staff as a group either to evacuate a building or to relocate from the point of occupancy to a point of safety;

"Point of Safety" means a location that (a) is exterior to and away from a building; or (b) is within a building of any type construction protected throughout by an approved automatic sprinkler system and that is either (1) within an exit enclosure meeting the requirements of I.B.C. Section 1020; or (2) within another portion of the building that is separated by smoke partitions meeting the requirements of I.B.C. Section 710, with not less than a one-half hour fire resistance rating, and the portion of the building has access to a means of escape or exit that conforms to the requirements of this code and does not require return to the area of the fire."

405.11.3 Fire Drills And Evacuation Capability Determination. The initial determination of evacuation capability will be determined by a fire drill conducted by a fire code official or by an employee of the Department of Health and Social Services responsible for licensing the facility. Changes to the evacuation capability will be made by a fire code official, based on a record of fire drills conducted by the facility staff. The drills will be conducted six times a year on a bimonthly basis, with at least two drills conducted during the night when residents are sleeping. Records must indicate the time taken to reach a point of safety, date and time of the drill, location of simulated fire origin, escape paths used, and comments relating to residents who resisted or failed to participate in the drills.

405.11.4 Evacuation Capability and Fire Protection Requirements. Fire protection requirements of a facility under this section are as follows:

405.11.4.1 Prompt Evacuation Capability. Evacuation capability of three minutes or less indicates prompt evacuation capability. In facilities maintaining prompt evacuation capability, the requirements of the code for Groups I-1 or R-4 occupancies must be followed.

405.11.4.2 Slow Evacuation Capability. Evacuation capability of more than three but less than 14 minutes indicates slow evacuation capability. In facilities maintaining slow evacuation capability, the facility must be protected by (a) an automatic smoke detection system, using addressable smoke detectors, designed and installed in accordance with the provisions of this code and N.F.P.A. 72; and (b) an automatic sprinkler system, with quick-response or residential sprinklers, installed in accordance with section 903.3.1.2 N.F.P.A. 13R (Sprinkler Systems);

405.11.4.3 Impractical Evacuation Capability. Evacuation capability of 14 minutes or more indicates impractical evacuation capability. In facilities maintaining impractical evacuation capability, the facility must be protected by (a) the protections for a facility with slow evacuation capability under Section 405.11.4.2; (b) one-half hour fire-resistive construction throughout the facility; and (c) direct egress from sleeping rooms for occupants needing evacuation assistance either (i) to the exterior at grade level, to an exterior porch or landing via a 3 foot 6 inch wide door; or (ii) if the sleeping rooms are separated from the rest of the building by smoke partitions installed in accordance with I.B.C. Section 710, by egress windows conforming to the provisions of Section 1026.

[(27) CHAPTER 5 OF THE *I.F.C.* IS REVISED BY ADDING A NEW SECTION 507.4 TO READ: "507.4 SMOKE OBSTRUCTION SYSTEMS. SMOKE OBSTRUCTION SYSTEMS ASSOCIATED WITH SECURITY OR BURGLAR ALARM SYSTEMS ARE NOT ALLOWED.";]

(28) Chapter 5, **Section 507.1** [SECTION 508.1] of the *I.F.C.*, the first sentence is revised to read: "The chief of the registered fire department having jurisdiction may require that an approved water supply capable of supplying the required fire flow for fire protection be provided to premises upon which facilities, buildings, or portions of facilities or buildings are constructed or moved into or within the jurisdiction on or after September 15, 2001";

[(29) CHAPTER 6, SECTION 603 (FUEL-FIRED APPLIANCES) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(30) Chapter 6, Section 603.3.1 (**Fuel** [MAXIMUM OUTSIDE] oil storage **in outside, above-ground tanks** [ABOVE GROUND]) of the *I.F.C.*, the last sentence is revised to read: "The storage of fuel oil above ground in quantities exceeding 660 gallons (2,498 L) shall comply with NFPA 31 and have a minimum distance to nearest important building by not less than five feet.";

[(31) CHAPTER 6, SECTION 604 (EMERGENCY AND STANDBY POWER SYSTEM) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(32) CHAPTER 6, SECTION 604.2.15.2 (SEPARATE CIRCUITS AND LUMINAIRES) OF THE *I.F.C.*, IS REVISED BY THE ADDING A NEW SECTION 604.2.15.2.2 TO READ: "604.2.15.2.2 PICKUP TIME. THE EMERGENCY POWER SYSTEM MUST PICK UP ITS CONNECTED LOADS WITHIN 10 SECONDS OF FAILURE OF THE NORMAL POWER SUPPLY.";]

[(33) CHAPTER 6, SECTIONS 605 AND 606 OF THE *I.F.C.*, ARE REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE* " AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(34) Chapter 7, Section 703.2.3 (Door operation) of the *I.F.C.*, is revised by adding a new Section 703.2.3.1 to read: "703.2.3.1 Operation. Fire assemblies may not be obstructed or otherwise impaired from their proper operation at any time. When two or more self-closing fire assemblies within a building have been documented as having been obstructed or impaired during three or more consecutive inspections, the fire code official may order the installation of automatic-closing devices meeting the requirements of **Section 714.4.7.2** [SECTION 714.4.7.3] of the *I.B.C.*";

[(35) CHAPTER 8, SECTION 807.1 (GENERAL REQUIREMENTS) OF THE *I.F.C.*, IS REVISED BY ADDING “, OR TREATED BY A METHOD APPROVED BY FIRE CODE OFFICIALS” AT THE END OF THE FIRST PARAGRAPH;]

(38) Chapter 9, Section 901.6 (Inspection, testing and maintenance) of the *I.F.C.*, is revised by adding a second paragraph to read: "**Superseding** [NOTWITHSTANDING] other code or standard requirements established by this section, fire protection systems and fire extinguishers must be inspected, tested, and serviced as follows:

1. Annually. Exception: Standpipe systems must be inspected, tested, and serviced every five years;
2. After any use or activation;
3. Any time damage is found;
4. After repair or alteration;
5. When required by the fire code official;
6. After a seasonal shutdown.”

Reports of inspections and tests must be maintained on the premises, and a copy of the [ACCEPTANCE] test **report** [CERTIFICATE] must be forwarded to the fire code official by the person conducting the inspection or test within 30 days of the inspection or test being completed. The annual fire extinguisher testing may be performed by any person who has a valid permit in accordance with 13 AAC 50.030(h), including the building **owner or the owner's agent.**";

(--) Chapter 9, Section 901.7 (Systems out of Service) of the *I.F.C.*, the first sentence is revised to read: "Where a required fire protection system is out of service for more than eight hours in a 24 hour period, an impairment plan will be submitted to the fire

department and the fire code official immediately and, where required by the fire code official, the building shall either be evacuated or an approved fire watch shall be provided for all occupants left unprotected by the shutdown until the fire protection system has been returned to service.

(37) Chapter 9, Section 903.2.3 (Group E) of the I.F.C., is revised to read: "Group E. An automatic sprinkler system must be provided throughout all buildings with Group E occupancies. The use of a fire wall or barrier does not establish a separate building or fire area for purposes of this section.

Exception: Buildings with Group E occupancies having an occupant load of 49 or less.

An automatic sprinkler system must 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 five persons between the hours of 10:00 p.m. and 6:00 a.m. must be equipped with an automatic sprinkler system designed and installed as described in Section 903.3.1.3 or an equivalent system approved by the building official.";

[(39) CHAPTER 9, SECTION 903.2.2 3 (GROUP E) OF THE I.F.C., IS REVISED TO READ: "AN AUTOMATIC SPRINKLER SYSTEM MUST BE PROVIDED THROUGHOUT ALL BUILDINGS IN GROUP E OCCUPANCIES AND FOR EVERY PORTION OF EDUCATIONAL BUILDINGS BELOW THE LEVEL OF EXIT DISCHARGE. THE USE OF A FIRE WALL DOES NOT ESTABLISH A SEPARATE BUILDING FOR PURPOSES OF THIS SECTION.]

[EXCEPTION: BUILDINGS WITH GROUP E OCCUPANCIES HAVING AN OCCUPANT LOAD OF 49 OR LESS";]

[DAY CARE USES THAT ARE LICENSED TO CARE FOR MORE THAN FIVE PERSONS BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. MUST BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.3., OR AN APPROVED EQUIVALENT SYSTEM.";]

(40) Chapter 9, **Section 903.2.8** [SECTION 903.2.78] (Group R) of the I.F.C., is revised to read: "Group R. An automatic sprinkler system must be installed in Group R occupancies **except** as required in **903.2.8.1** [903.2.7.1] through **903.2.8.2** [903.2.7.3].";

(41) Chapter 9 of the I.F.C. is revised by adding a new Section 903.2.8.1 to read: "903.2.8.1 Group R-1. (Health Clinics with Transient Quarters) may utilize a 13D sprinkler system throughout the building; a fire barrier can be utilized to separate the

building and utilize a 13R. In addition, rental cabins with potable water with stays less than 30 days will be considered R-1's and will be required to follow this section. [(41) CHAPTER 9 OF THE *I.F.C.* IS REVISED BY ADDING A NEW SECTION 903.2.7.1 TO READ: "903.2.7.1 GROUP R-1. AN AUTOMATIC SPRINKLER SYSTEM OR A RESIDENTIAL SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.2 MUST BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R-1 FIRE AREA.";]

(42) Chapter 9 of the *I.F.C.* is revised by adding a new **Section 903.2.8.2** [SECTION 903.2.78.2] to read: "**903.2.8.2** [903.2.7.2] Group R-2. An automatic sprinkler system or a residential sprinkler system installed in accordance with Section 903.3.1.2 must be provided throughout all buildings with a Group R-2 fire area that are more than two stories in height, including basements, or that have more than **four** [16] dwelling units or **16** sleeping rooms.";

[(43) CHAPTER 9 OF THE *I.F.C.* IS REVISED BY ADDING A NEW SECTION 903.2.7.3 TO READ: "903.2.7.3 GROUP R-4. AN AUTOMATIC SPRINKLER SYSTEM OR A RESIDENTIAL SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.2 MUST BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R-4 FIRE AREA.";]

(--) Chapter 9, Section 903.3.1.1 of the *I.F.C.*, is revised by adding a new Section 903.3.1.1.2 to read: "**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 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 8 AAC 77.005, as amended as of September 27,2008 and as amended from time to time"** and the fire sprinkler head for the top of elevator shafts may have a globe valve installed so the single head can be turned off in an emergency. The globe 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;

(3) notification of alarm activation is received at a constantly monitored location and;

(4) fire extinguisher is provided in the elevator machine room.";

[(44) CHAPTER 9, SECTION 903.3.1.1, OF THE *I.F.C.*, IS REVISED BY ADDING A NEW SECTION 903.3.1.1.2 TO READ: "903.3.1.1.2 (ELEVATOR HOISTWAYS AND MACHINE ROOMS). WHEN THE PROVISIONS OF THIS CODE REQUIRE THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, THE INSTALLATION IN ELEVATOR HOISTWAYS AND MACHINE ROOMS MUST OCCUR AS DESCRIBED IN *N.F.P.A.* 13-2007, (ELEVATOR HOISTWAYS 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 (2000 EDITION)* AND ADOPTED BY REFERENCE.]

(--) Chapter 9, Section 903.3.1.1 of the *I.F.C.*, is revised by adding a new Section 903.3.1.1.3 to read: "903.3.1.1.3 (Inspectors Test Valve). A test valve will be installed at the remote area in both dry and wet systems to equal the required flow of one sprinkler head. In locations that use floor control valves the inspector test valve may be collocated where it can be installed to the exterior or to an interior drain.

[(45) CHAPTER 9, SECTION 903.3.5 (WATER SUPPLIES) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

(47) Chapter 9, Section 903.6 (Existing buildings) of the *I.F.C.*, is revised by adding a new **Section 903.6.3** [SECTION 906.2] to read: "**903.6.3** [903.6.2] Group E. An approved automatic fire extinguishing system must be installed in **Group** [A GROUP] E occupancy in accordance with **Section 903.2.3** [SECTION 903.2.2], as revised, whenever alterations, repairs, or additions are made to an existing structure containing a Group E Occupancy.";

[(48) CHAPTER 9, SECTION 904.3.1 (ELECTRICAL WIRING) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(--) Chapter 9, Section 904.8.1 of the *I.F.C.*, is revised by adding a new Section 904.8.1.1 to read: "904.8.1.1(*N.F.P.A.* 12 Section 1.3.4). These upgrades shall be completed with 18 months of the effective date of this regulation.

(50) Chapter 9, **Section 907.1.2** [SECTION 907.1.1] (**Fire alarm shop drawings**) [(CONSTRUCTION DOCUMENTS)] of the *I.F.C.*, is revised by adding the following documents to those that must be submitted for plan review:

14. [12.] System riser diagrams.;

15. fire system designer stamp, signature, date

(-- Chapter 9, Section 907.2.1 (Group A) of the I.B.C., is revised to replace the exception to read: "A manual fire alarm system shall be installed in Group A-2 occupancies with an occupant load of 100 or more";

(-- Chapter 9, Section 907.2.2 (Group B) of the I.F.C., is revised by deleting the exception;

(51) Chapter 9, Section 907.2.3 (Group E) of the *I.F.C.*, is revised by adding a second paragraph to read: "Rooms used for sleeping or napping purposes within a day care use of a Group E occupancy must be provided with smoke alarms that comply with **Section 907.2.11.2** [SECTION 907.2.10.1]", and by deleting **exception 3** [EXCEPTION 1];

(-- Chapter 9, Section 907.2.4 (Group F) of the I.F.C., is revised by deleting the exception;

(-- Chapter 9, Section 907.2.7 (Group M) of the I.F.C., is revised by deleting exception 2;

(-- Chapter 9, Section 907.2.8.1 (Manual Fire Alarm System) of the I.F.C., is revised by deleting exception 2;

(-- Chapter 9, Section 907.2.9.1 (Manual Fire Alarm System) of the I.F.C., is revised by deleting exception 2;

(-- Chapter 9, Section 907.2.10.1 (Manual Fire Alarm System) of the I.F.C., is revised by deleting exception 2;

(53) Chapter 9, **Section 907.2.11** [SECTION 907.2.10] (Single- and multi-station smoke alarms) of the *I.F.C.*, is revised by adding a second paragraph to read: "When a plan review is required for an existing Group R occupancy, smoke alarms must be installed as described in **Section 907.2.11** [SECTION 907.2.10.1].";

(54) Chapter 9, Section 907.2.10.1.3 (Group I-1) of the *I.F.C.*, is revised by deleting **exception 3** [THE EXCEPTION];

(55) Chapter 9, Section 909.18 (Acceptance tests) of the *I.F.C.*, is revised by adding a new sentence to read: "A copy of the acceptance test certificate must be forwarded to the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] or the deferred **authority having jurisdiction** [HAVING AUTHORITY] by the firm conducting the test within 30 days of the completion of the installation.";

[57] CHAPTER 9, SECTION 912.5 (BACKFLOW PROTECTION) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8

AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

(59) Chapter 10, Section 1009.1 (Stairway width) of the *I.F.C.*, is revised by adding the following exception:

Exceptions: "5. Ladders [STAIRS OR LADDERS] used only to attend equipment are exempt from the requirements of [THIS] section 1009.";

(60) Chapter 10, **Section 1009.6.2** [SECTION 1009.5.2] (Outdoor conditions) of the *I.F.C.*, is revised by adding ", snow or ice" after "water";

[(62) CHAPTER 10, SECTION 1013.3 (OPENING LIMITATIONS) OF THE *I.F.C.*, IS REVISED BY DELETING EXCEPTION 5;]

(63) Chapter 10, **Section 1021.2** [SECTION 1019.1] (**Single Exits**) [(MINIMUM NUMBER OF EXITS)] of the *I.F.C.*, is revised by adding **a second paragraph** [AN EXCEPTION] to read: "[EXCEPTION]: Basements or the first level below the first story in all occupancies, except Group R-3, used exclusively for the service of the building may have access to only one exit. Any other use of the basement or first level below the first story must have at least two exits arranged in accordance with Section 1015.2. For purposes of this exception, storage rooms, laundry rooms, maintenance offices, and similar uses may not be considered as providing service to the building.";

(64) Chapter 10, **Section 1029.1** [SECTION 1026.1] (General) of the *I.F.C.*, is revised by deleting Exceptions 1, 2, 3, 4, and 7;

[(65) CHAPTER 10, SECTION 1027.5 (ILLUMINATION EMERGENCY POWER) OF THE *I.F.C.*, IS REVISED BY DELETING THE EXCEPTION UNDER PARAGRAPH 1;]

(67) Chapter 11, Section 1103.5 (Dispensing of flammable and combustible liquids) of the *I.F.C.*, the last sentence is revised to read: "Aircraft motor vehicle fuel-dispensing stations shall be in accordance with Chapter 22 of the *I.F.C.* and *N.F.P.A.* 407 [(2007 EDITION)], and adopted by reference.";

(69) Chapter 11, Section 1106.1 (Aircraft motor-vehicle fuel-dispensing stations) of the *I.F.C.*, is revised to read: "Aircraft motor vehicle fuel-dispensing stations shall be in accordance with Chapter 22 and *N.F.P.A.*407 [(2007 EDITION)] and adopted by reference.";

[(71) CHAPTER 11, SECTION 1106.3.4 (PROTECTION OF ELECTRICAL EQUIPMENT) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(72) CHAPTER 12, SECTION 1204.2.3 (ELECTRICAL WIRING AND EQUIPMENT) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(73) CHAPTER 14, SECTION 1404.7 (ELECTRICAL) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(74) CHAPTER 15, SECTION 1503 (PROTECTION OF OPERATIONS) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(75) CHAPTER 15, SECTION 1504.6.1.2.2 (PORTABLE INFRARED APPARATUS) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(76) CHAPTER 16, SECTION 1604.5 (HEATING) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(77) CHAPTER 17, SECTION 1703.2.1 (ELECTRICITY) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(78) CHAPTER 18, SECTION 1803 (GENERAL SAFETY PROVISIONS) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(79) CHAPTER 19, SECTION 1903.4 (ELECTRICAL EQUIPMENT) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(80) CHAPTER 20, SECTION 2004.1 (WIRING AND EQUIPMENT) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(81) CHAPTER 22 (MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES) OF THE *I.F.C.* IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(--) Chapter 23, Table 2306.2 (General Fire Protection and Life Safety Requirements) of the *I.F.C.*, is revised by changing the sprinkler requirements in the third column from the left side for the area of "501-2500" square feet to "Yes".

(--) Chapter 24, Section 2403.4 (Permits) – This code site deleted

[(87) CHAPTER 24, SECTION 2403.12.6.1 (EXIT SIGN ILLUMINATION) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(88) CHAPTER 26, SECTION 2606.4 (EMERGENCY DISCONNECT) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(89) CHAPTER 27 (HAZARDOUS MATERIAL-GENERAL PROVISIONS) OF THE *I.F.C.* IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(91) CHAPTER 27, SECTION 2704.2.2.6 (DRAINAGE SYSTEM DESIGN) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*INTERNATIONAL PLUMBING CODE*" AND REPLACING IT WITH "PLUMBING CODE AS ADOPTED BY 8 AAC 63.010, AS AMENDED AS OF DECEMBER 6, 2003 AND AS AMENDED FROM TIME TO TIME";]

[(92) CHAPTER 30 (COMPRESSED GASES) OF THE *I.F.C.* IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(93) CHAPTER 32 (CRYOGENIC FLUIDS) OF THE *I.F.C.* IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(105) Chapter 33, Section 3308.11 (Retail display and sale) of the *I.F.C.*, is revised **by adding a new section** to read: "Retail sale of salable fireworks. Retail sales of salable fireworks as described in AS 18.72 must be conducted in accordance with this section.

[(106) CHAPTER 34 (FLAMMABLE AND COMBUSTIBLE LIQUIDS) OF THE *I.F.C.* IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(110) CHAPTER 36 (FLAMMABLE SOLIDS) OF THE *I.F.C.* IS REVISED BY DELETING THE REFERENCES TO THE "*ICC ELECTRICAL CODE*" AND REPLACING THEM WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

[(111) CHAPTER 37, SECTION 3704.2.2.8 (EMERGENCY POWER) OF THE *I.F.C.*, IS REVISED BY DELETING THE REFERENCE TO THE "*ICC ELECTRICAL CODE*" AND REPLACING IT WITH "ELECTRICAL CODE AS ADOPTED BY 8 AAC 70.025, AS AMENDED AS OF JUNE 14, 2006 AND AS AMENDED FROM TIME TO TIME";]

(112) **Chapter 47** [CHAPTER 45] (Referenced Standards) of the *I.F.C.* is revised by changing the referenced standards from the publication date listed to the following edition, and the standards are adopted by reference:

N.F.P.A. 10-2010 [10-2007] Portable Fire Extinguishers;

N.F.P.A. 13-2010 [13-2007] Installation of Sprinkler Systems ;

N.F.P.A. 13D-2010 [13D-2007] Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes;

N.F.P.A. 13R-2010 [13R-2007] Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height;

N.F.P.A. 14-2010 [14-2007] Standpipe and Hose System;

N.F.P.A. 20-2010 [20-2007] Installation of Stationary Pumps for Fire Protection;

N.F.P.A. 72-2010 [72-2007] National Fire Alarm Code;

N.F.P.A. 750-2010 [750-7006] *Standard on Water Mist Fire Protection Systems.*

(--) Appendix of the I.F.C. is revised by adding APPENDIX K as follows:

"APPENDIX K FIRE STATUS REPORTING"

K101 (Scope) All fire service companies providing services in the State of Alaska shall provide a legible copy of all fire system service reports to the closest Fire and Life Safety Office as adopted and amended to the 2009 International Fire Code as listed below.

Exception: Industrial occupancies with a fire system preventive maintenance program approved by the Division of Fire and Life Safety.

See below for contact information.

K102 (Status 1) Systems out of service or Major Deficiencies: The fire service company shall immediately contact the closest State Fire Marshal Office, if the system can not be returned to service. On a weekend or after hours, contact the closest State Fire Marshal Office on the first business day. Written notification shall be faxed to the closest State Fire Marshal Office within 24 hours. Notification may be by email.

K102.1 Corrective Action time: Status 1 reports shall be repaired immediately.

K102.1.1 For example but not limited to:

K102.1.1.1 Fire Sprinkler or Water Based Systems:

1. Non-working flow/pressure switches.
2. Damage to fire department connections.
3. No water to system.
4. Frozen or otherwise damaged system.

K102.1.1.2 Fire Pumps:

1. Non-working fire pumps.
2. Fire pump controls not working or malfunctioning.

K102.1.1.3 Fire Alarm Systems (detection and alarm):

1. Non-working fire alarm panel.
2. Malfunctioning fire alarm panel.
3. Audio and visual devices not working, entire loop.
4. Detection not working entire detection loop.
5. Loss of programming.

K102.1.1.4 Kitchen Hood Fire Systems:

1. System cylinder is not charged or leaking.
2. Appliance not properly covered due to rearrangement of appliances.
3. Plugged discharge nozzles.

4. Automatic detection not functional.
5. Gas or electric not shutting down.

K102.1.1.5 Clean Agent or Special Hazard System:

1. System cylinder is not charged or leaking.
2. Releasing panel not functional.

K103 (Status 2) Systems that have critical deficiency reports shall be provided to the closest Fire and Life Safety Office within 14 days.

K103.1 Corrective action Time: Status 2 systems shall be repaired within 14 days.

K103.1.1 For example (but not limited to):

K103.1.1.1 Fire Sprinkler or Water Based System:

1. Five or more painted sprinkler heads in a concentrated area or more than 10 in a facility.
2. Change of use that will affect the performance of the sprinkler system.
3. Low water pressure.
4. Any other major problem that will affect the performance.
5. No monitoring on required systems.

K103.1.1.2 Fire Pumps:

1. Low fuel
2. Pump packing leaking beyond specifications.
3. Fire pump room below 40 degrees.
4. Fire pump not meeting its rated discharge pressure or GPM flow over a 10% difference.
5. Any other major problem that will affect the performance.

K103.1.1.3 Fire Alarm Systems (detection and alarm):

1. Batteries overdue for replacement.
2. No monitoring on required system.
3. Audio and visual devices not working – up to three devices, over three devices status one.
4. Detection not working – up to three devices, over three devices status one.
5. Any other major problem that will affect the performance.

K103.1.1.4 Kitchen Hood Fire Systems:

1. Hood and ducts with heavy grease buildup.
2. Any other major problems that will affect the performance.

K104 (Status 3) Minor deficiency reports shall be provided to the closest State Fire Marshal's Office within 30 days. These deficiencies will not affect the performance of the system.

K104.1 Corrective Action Time: Status three systems shall be repaired within 30 days.

K105 (Status four) System with no deficiencies shall be reported to the closest State Fire Marshal Office within 30 days.

K105.1 System service reports shall have the following information on them:

1. **Inspection company name shall be printed on all reports with address and phone number.**
2. **Inspector's first and last name shall be printed with State of Alaska fire systems permit number.**
3. **Inspector's phone number: office and cell if available.**
4. **Deficiencies shall be typed or written and shall be printed text (no cursive/long hand handwriting). Reports shall be written with a minimum line spacing of a 3/8 inch per line.**
5. **All reports shall have building name, occupancy inspected, and address clearly identified on the first page, and all subsequent pages shall have the building name and date of inspection on the top of the page.**
6. **All reports shall have the building contact person's name with phone number on the front page.**
7. **Only white and yellow copies will be accepted for reports submitted.**
8. **Deficiency write ups must include the code citation that is in violation and a description of the problem.**

Items having minor deficiencies shall be mailed with in 30 days to:

State Fire Marshal Offices

5700 E. Tudor Road, Anchorage AK 99507; Phone 907-269-5637, Fax 907-269-5018

1979 Peger Road, Fairbanks AK 99709; Phone 907-451-5200, Fax 907-451-5218

2760 Sherwood Lane, Ste.2-B, Juneau, AK 99811; Phone 907-465-4331 Fax 907-465-5521

Systems out of service and those with major deficiencies shall have a report faxed to the closest State Fire Marshal Office and mailed immediately within one day to the address above.

(Eff. 1/14/81, Register 77; am 8/2/86, Register 99; am 10/28/90, Register 116; am 6/10/93, Register 126; am 8/31/96, Register 139; am 3/27/99, Register 149; am 9/15/2001, Register 159; am 8/27/2004, Register 171; am 9/12/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.080

13 AAC 50.027(a) is amended to read:

(a) Before beginning the construction, alteration, repair, or changing the occupancy of a building, a substantial land structure, or structure regulated by the state fire marshal, plans and specifications regarding that building's or structure's location on the property, area, height, number of stories, occupancy, type of construction, fire-resistive construction, interior finish, exit facilities, electrical systems, mechanical systems, fuel storage tanks and their appurtenances, automatic fire-extinguishing systems, and fire alarm systems must be submitted by the owner or the owner's representative to the state fire marshal for examination and approval. This review does not address structural considerations, mechanical or electrical review beyond that necessary to confirm compliance with fire or life safety requirements, or the requirements of 42 U.S.C. 12101 - 12213 (**Americans With Disabilities Act of 2010** [AMERICANS WITH DISABILITIES ACT OF 1990]). A copy of the approval must be posted as required in 13 AAC 55.100.

13 AAC 50.027(c)(1) is amended to read:

(1) upon application for a plan review, a plan review fee must be paid to the **State of Alaska** [STATE FIRE MARSHAL]; the plan review fee is established by *I.B.C.*, Section, 108 adopted by reference in 13 AAC 50.020; the value of the proposed construction will be determined by the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] using the valuation schedule, the plan review fee table and the plan review fee formula set out in (6), (7), and (8) of this subsection; renovation, alterations, and mechanical changes and fuel system installation and replacement valuation is determined by the project cost; the fee schedule will then be applied to the calculated fee; if the **Division of Fire and Life Safety** cannot determine project value using the valuation schedule or the construction estimate, an hourly fee of **\$75** [\$50] per hour or fraction of an hour will be charged; the minimum review fee for industrial (**oil, gas, and mining**) use facilities is \$1000; the plan review fee for home day cares is \$100; the plan review fee for a relocation review is \$150; the minimum fee for other **uses requiring administrative approval; such as impairments, code modifications, foundations/framings** is \$150.00.

13AAC 50.027(c)(3) is amended to read: if the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] determines that it is advisable because of the complexity of plans submitted, the **office** [MARSHAL] will submit the plans to the International Code Council (I.C.C.) for plan review by that agency; the person submitting the plans to the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] is responsible for the fee of the I.C.C.;

13AAC 50.027(c) (5) is amended to read: if any work for which a plan review and approval is required by this subsection has been started without first obtaining plan review and approval, a special processing plan review fee will be charged; the special processing plan review fee [IS \$100 FOR A FIRST VIOLATION; THE SPECIAL PROCESSING PLAN REVIEW FEE FOR A SUBSEQUENT VIOLATION BY THE SAME PERSON] is an

additional charge equal to the amount of the standard plan review fee for the project;
subsequent violations by the same person or business will result in an additional special processing fee multiplied by the number of previous violations;

13AAC 50.027(c) (6) is amended to read: the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] shall determine value of the proposed construction using the Valuation Schedule set out in this paragraph, as follows:

[NOTWITHSTANDING 13 AAC 55.030(C), THE CHIEF OF A FIRE DEPARTMENT REGISTERED UNDER AS 29.60.130, OR THE CHIEF OF A FIRE DEPARTMENT OR A BUILDING OFFICIAL OF A MUNICIPALITY RECOGNIZED UNDER 13 AAC 52.030, MAY USE THE VALUATION SCHEDULE IN THIS PARAGRAPH FOR VALUE DETERMINATION, OR MAY USE ANOTHER VALUATION SCHEDULE APPROVED BY THE LOCAL JURISDICTION;]

13AAC 50.027(C) (7) is amended to read: The **Division of Fire and Life Safety** [STATE FIRE MARSHAL] shall use the following for calculating fees for plan review:

13AAC 50.027(C) (8) is amended to read: Plan review fees shall be determined using the following formula:

(A) for valuation, project floor area in square feet multiplied by the cost per square foot from valuation schedule set out in (6) of this subsection, [PLUS THE COST PER SQUARE FOOT FOR SPRINKLERS FROM VALUATION SCHEDULE SET OUT IN (6) OF THIS SUBSECTION] **equals** [EQUAL] the project total valuation;

13 AAC 50.027(d) is amended to read:

(d) If work is being done contrary to the provisions of this section, the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] may order the work stopped by notice in writing served on any persons engaged in or causing the work to be done. The persons doing the work shall immediately stop the work until authorized by the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] to proceed.

The lead-in language of 13 AAC 50.027(e) is amended to read:

(e) The **Division of Fire and Life Safety** [STATE FIRE MARSHAL] shall use the following for calculating fees for fire system plan review:

•••

(Eff. 6/15/79, Register 71; am 8/2/86, Register 99; am 10/28/90, Register 116; am 6/10/93, Register 126; am 8/31/96, Register 139; am 3/27/99, Register 149; am 9/15/2001, Register 159; am 8/27/2004, Register 171; am 9/13/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.080 AS 18.70.090

The lead-in language of 13 AAC 50.030(c) is amended to read:

(c) Single-station smoke detection devices as required by AS 18.70.095 must meet the requirements of *N.F.P.A.* Standard 72-2010, and adopted by reference and, at a minimum, must be installed in accordance with *I.B.C. Section 907.2.11* [SECTION 907.2.10] and the standards of this subsection. Smoke detectors may be solely battery operated when installed in existing buildings built before 1/1/89; or in buildings without commercial power. The following are additional installation standards:

...

13 AAC 50.030(c)(2) is amended to read:

(2) approved detectors are those that are listed and approved by **a National Recognized Testing Laboratory such as** Underwriters' Laboratories, Inc., **or** Factory Mutual, Inc., [AND OTHER LABORATORIES RECOGNIZED BY THE STATE FIRE MARSHAL OF THIS STATE].

13 AAC 50.030(h) is amended to read:

(h) A person may not inspect, recharge, maintain, or hydrostatic test portable fire extinguishers unless a permit from the state fire marshal has been issued. The following apply to permits under this subsection:

(1) each applicant for a **Class II or III** fire extinguisher permit must pass a written examination given by the state fire marshal in order to qualify for a permit;

(2) a permit endorsed with the type of qualification will be issued to each qualified person for **Class II and III**;

(5) a permit holder shall place or cause to be placed the holder's permit number on the inspection tag of a portable fire extinguisher to identify the work performed under the permit **for Class II and III. Documentation for Class I inspections will consist of the person's signature on the extinguisher inspection tag or appropriately documented in accordance with electronic monitoring and inspection methods as adopted by N.F.P.A. 10;**

(6) it is the responsibility of the employer to provide training and documentation to enable their personnel to conduct Class I inspection and non-evasive maintenance of portable fire extinguishers;

(Eff. 6/25/69, Register 30; am 2/21/71, Register 37; am 1/14/81, Register 77; am 8/2/86, Register 99; am 10/28/90, Register 116; am 6/10/93, Register 126; am 8/31/96, Register 139; am 9/15/2001, Register 159; am 8/27/2004, Register 171; am ____/____/_____, Register _____)

Authority: AS 18.70.010 AS 18.70.085 AS 18.70.095

AS 18.70.080

13 AAC 50.035(d) is amended to read:

(d) A permit issued under this section expires three years from date of issuance. The authority of a permit holder to design, install or maintain a system under a permit ceases immediately upon expiration of the permit. A permit may be renewed upon application to the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] on forms provided by **their office and a minimum of 15 documented credit unit hours of continuing education over the course of the permit being renewed. Continuing education credit units are based on hour for hour formal training conducted within the permit type being renewed.**[THE FIRE MARSHAL]

13 AAC 50.035(h)(3)(G)(iii) is amended to read:

(iii) have passed the examination for NICET II certification elements in **inspection and testing of water based systems** [AUTOMATIC SPRINKLER SYSTEMS LAYOUT] or the equivalent;

13 AAC 50.035(n)(1)(A) is amended to read:

(A) preparation of technical design documents, **specification development, consultation, evaluation and project management as it relates to their permit;**

13 AAC 50.035(n)(2) is amended to read:

(2) "design" means the preparation of detailed drawings of fire alarm detection, signaling, or suppression systems and the calculations and specifications for those systems completed in accordance with the requirements of 13 AAC **50 through 55 including the direction and or performance of fire protection system surveys, consultation,**

investigation, evaluation, preparation of technical design documents, specification development, project management, planning, observation of construction and the organizational and economic aspects of these activities as it relates to their permit;

13 AAC 50.035(n)(3) is amended to read:

(3) "direct oversight and supervision" means that a company must have sufficient personnel **on site** with appropriate permits to inspect and certify that work being performed on systems is in substantial compliance with applicable laws, product listings, and manufacturer's installation instructions **for each phase of installation and at the functional checkout and commissioning of the system;**

13 AAC 50.035(n)(4) is amended to read:

(4) "equivalent" means [20 YEARS OF] relevant **formally approved** experience **and training** in the design, installation, or maintenance of **fire protection** systems. **This is achieved primarily through recognized union apprenticeship; college or industry trade programs or appropriate professional engineer attainment.** [OR SUCH OTHER COMBINATION OR DOCUMENTED TRAINING, EXPERIENCE, OR CERTIFICATION]. **The State Fire Marshal**[THE FIRE MARSHAL [THAT] determines **what** is substantially equivalent **or exceeds** [TO] the requirements of (h) of this section;

13 AAC 50.035(n)(15) is amended to read:

(15) "water-based fire suppression system" means a system that uses water as the suppression agent; "water-based fire suppression system" includes automatic fire sprinkler systems and standpipe systems **and water mist systems.** (Eff. 6/10/93, Register 126; am 8/31/96, Register 139; am 9/13/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.010 AS 18.70.080 AS 18.70.090

13 AAC 50.060(a) is amended to read:

(a) Fire-retardant paints, **intumescent coverings,** [OR] solutions, and thermal barriers **listed for use,** if required in an occupancy, must be renewed or repaired as often as necessary to maintain the required flame-retardant properties **according to their listing.**

(In effect before 7/28/59; am 6/25/69, Register 30; am 2/21/71, Register 37; am 1/14/81, Register 77; am 8/2/86, Register 99; am 10/28/90, Register 116; am 6/10/93, Register 126; am 8/27/2004, Register 171; am ____/____/____, Register ____)

Authority: AS 18.70.010 AS 18.70.080

(13 AAC 50.075. Deferring to local authorities)

13 AAC 50.075(a)(2) is amended to read:

(2) agrees in writing to concurrently undertake or continue a building fire safety inspection program that meets or exceeds the program conducted by the Division of Fire **and Life Safety** [DIVISION OF FIRE PREVENTION].

13 AAC 50.075(b)(2) is amended to read:

(2) agrees in writing to concurrently undertake or continue a building fire safety inspection program that meets or exceeds the programs conducted by the Division of Fire **and Life Safety** [DIVISION OF FIRE PREVENTION];

13 AAC 50.075(c)(2) is amended to read:

(2) has a building fire safety inspection program that meets or exceeds the building fire safety inspection program conducted by the Division of Fire **and Life Safety** [DIVISION OF FIRE PREVENTION];

13 AAC 50.075(e) is amended to read:

(e) Application for deferral or exemption under this section must be made on the forms provided by the state fire marshal. Criteria for deferral and exemption will be established by the state fire marshal and included with the application forms. **Deferral agreements will be audited every two years and a revalidated agreement signed from time to time.** (Eff. 1/14/81, Register 77; am 8/2/86, Register 99; am 6/10/93, Register 126; am ____/____/____, Register ____)

Authority: AS 18.70.010 AS 18.70.080 AS 18.70.090

13 AAC 52.020 is amended to read:

13 AAC 52.020. Fire records. (a) Every fire or other related incident must be reported to the state fire marshal. Incident reports must be submitted within the first 10 days of the month following the month in which the incident occurred. Incident reports must be **valid when** submitted by the fire chief, [OR] investigating officer, **or their designee** and be **National Fire Incident Reporting System (NFIRS) 5.0 compatible** [IN A FORM APPROVED BY THE STATE FIRE MARSHAL]. The state fire marshal's office shall provide each reporting fire department an annual summary of fire-related incidents reported under this section. The marshal's report shall be provided by July 1 of each year [STARTING JULY 1, 1997]. **The State Fire Marshal mandates the following reporting modules and or fields:**

(1) those modules currently required by USFA NFIRS 5.0 with the addition of the following fields:

(A) Fire Module – F1 through F3 Equipment Involved in Ignition;

(B) Civilian Fire Casualty – All Fields;

(2) Fire Service Casualty Module – All Fields;

(3) Arson Module – All Fields;

(4) Arson/Juvenile Firesetter – All Fields.

13 AAC 52.020(b) is amended to read:

(b) The **Division of Fire and Life Safety** [STATE FIRE MARSHAL] will keep a record of all fires and of all the facts concerning them, including statistics as to the extent of fires and the damage caused, and whether the losses were covered by insurance and, if so, in what amount. The record will be compiled from the Alaska National Fire Incident Reporting System (ANFIRS) submitted by the fire department officers and investigators. All the records are public, except when a criminal matter is pending.

13 AAC 52.020© is amended to read:

(c) Each fire insurance company authorized to transact business in this state, or its authorized agent or adjustor, shall report to the **Division of Fire and Life Safety** [STATE FIRE MARSHAL] all fire losses on property insured, giving the name and address of the insured, the date of the fire, the amount of probable loss, the character of the property destroyed or damaged

and the probable cause of the fire. The loss must be reported to the state fire marshal within three days after the final adjustment is made.

13 AAC 52.020(d) is amended by adding a new subsection to read:

(d) At the conclusion of a fire investigation the disposition of the investigation shall be forwarded to the Division of Fire and Life Safety for inclusion in the fire record. (In effect before 7/28/59; am 7/25/60, Register 30; am 2/21/71, Register 37; am 8/2/86, Register 99; am 8/31/96, Register 139; am 8/27/2004, Register 171; am 9/13/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.030 AS 44.17.030

The lead-in language of 13 AAC 52.030(a) is amended to read:

- (a) The **Division of Fire and Life Safety** [STATE FIRE MARSHAL] will register the following fire departments that meet the requirements of (b) of this section:

13 AAC 52.030(b)(4) is amended to read:

(4) provide for the investigation and determination of the cause of each fire occurring within its boundaries and comply with fire reporting requirements required by the state fire marshal under **13 AAC 52.020(d)** [13 AAC 52.020(a)];

(Eff. 2/21/71, Register 37; am 1/14/81, Register 77; am 10/28/90, Register 116; am 6/10/93, Register 126; am 8/31/96, Register 139; am 8/27/2004, Register 171; am 9/13/2007, Register 183; am ____/____/_____, Register _____)

Authority: AS 18.70.010

13 AAC 52 is amended by adding a new section to read:

13 AAC 52.050. Standards of accreditation of a fire department training program.

(a) The state fire marshal will accredit a local fire department to conduct fire training for certification that meets the requirements of (b) of this section;

(b) An accredited fire department must have operating procedures that

- (1) maintain registration with the state fire marshal under 13 AAC 52.030;**
- (2) provide for management of the fire training program;**
- (3) ensure the safe operation of the fire training program;**
- (4) govern the selection of qualified instructors;**
- (5) govern the selection of instructional curriculum;**
- (6) govern the documentation of the fire training program;**

(c) In order to maintain its accreditation, a fire department accredited by the state fire marshal must:

(1) maintain fire department registration with the state fire marshal under 13 AAC 52.030;

(2) provide the following updated fire training program information on an annual basis:

(A) accreditation program manager;

(B) procedure or policy changes to program manager's authority, record keeping, curriculum selection or instructor selection.

(3) make records available for an audit of the fire training program by the state fire marshal when requested such as; individual training record, class rosters and departmental training records. (Eff. ____/____/____, Register ____)

Authority: AS 18.70.020