

STATE FIRE CODE ADOPTION ACT

**As Enacted by the
2010 Utah State Legislature
Effective - July 1, 2010**

State Fire Code Adoption Act

Effective July 1, 2010

Section 1. Title - Definitions - General provisions.

- (1) This bill is known as the "State Fire Code Adoption Act."
- (2) As used in this bill:
 - (a) "Board" means the Utah Fire Prevention Board created in Utah Code, Section 53-7-203.
 - (b) "Division" means the State Fire Marshal Division created in Utah Code, Section 53-7-103.
 - (c) "State Construction Code" means the State Construction Code adopted by the Legislature in accordance with Utah Code, Title 58, Chapter 56, Utah Uniform Building Standards Act.
 - (d) "State Fire Code" means the code adopted under Section 2 of this bill.
 - (e) "Utah Code" means the Utah Code Annotated (1953), as amended.
- (3) Consistent with Utah Code, Title 53, Chapter 7, Utah Fire Prevention and Safety Act, the division under the direction of the board may modify the format of the State Fire Code to provide accessibility to users of the State Fire Code.

Section 2. State Fire Code adopted.

In accordance with Utah Code, Title 53, Chapter 7, Utah Fire Prevention and Safety Act, the Legislature repeals the State Fire Code in effect on June 30, 2010, and adopts the following as the State Fire Code effective July 1, 2010:

State Fire Code

Part 1. General Provisions

Section 101. Definitions.

As used in the State Fire Code:

- (1) "Appreciable depth" means a depth greater than 1/4 inch.
- (2) "AHJ" means "authority having jurisdiction," which is the State Fire Marshal, an authorized deputy of the State Fire Marshal, or the local fire enforcement authority.
- (3) "IFC" means International Fire Code.
- (4) "NFPA" means the National Fire Protection Association.
- (5) "UL" means Underwriters Laboratories, Inc.

Section 102. Nationally recognized codes incorporated by reference.

The following codes are incorporated by reference into the State Fire Code:

- (1) the International Fire Code (IFC), 2009 edition, excluding appendices, as issued by the International Code Council, Inc., except as amended by State Fire Code, Part 2, Statewide Amendments and Additions; and
- (2) National Fire Protection Association (NFPA), NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2008

edition, except as amended by State Fire Code, Part 2, Statewide Amendments and Additions.

Part 2. Statewide Amendments and Additions

Section 201. Amendments and additions - IFC.

The following amendments and additions are adopted for application statewide:

- (1) For IFC, Scope and Administration:
 - (a) IFC, Chapter 1, Section 105.6.16, Flammable and combustible liquids, is amended to add the following section: "12. The owner of an underground tank that is out of service for longer than one year, shall receive a Temporary Closure Notice from the Department of Environmental Quality and a copy shall be given to the AHJ."
 - (b) IFC, Chapter 1, Section 109.2, Notice of violation, is amended as follows: On line three after the words "is in violation of this code," insert in the section the phrase "or other pertinent laws or ordinances".
- (2) For IFC, Definitions:
 - (a) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Educational Group E, Day care, is amended as follows: On line three delete the word "five" and replace it with the word "four".
 - (b) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Group I-1, is amended as follows: On line 10 add "Type I" in front of the words "Assisted living facilities".
 - (c) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Group I-2, is amended as follows:
 - (i) On line three delete the word "for" and insert the following into the sentence "on a 24 hour basis of more than three".
 - (ii) On line 10 after the words "Nursing homes" add the following: "both intermediate nursing care and skilled nursing care facilities, ambulatory surgical centers with five or more operating rooms where care is less than 24 hours, and Type II assisted living facilities. Type II assisted living facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted living facilities with at least six and not more than 16 residents shall be classified as a Group I-1 facility".
 - (d) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Institutional Group I, Group I-4, Day care facilities, Child care facility, is amended as follows:
 - (i) On line three delete the word "five" and replace it with the word "four".
 - (ii) On line two of the exception delete the word "five" and replace it with the word "four".
 - (e) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification, Residential Group R, R-2, is amended to add the following: "Exception: Boarding houses accommodating 10 persons or less shall be classified as Residential Group R-3."
- (3) For IFC, General Requirements:

- (a) IFC, Chapter 3, Section 304.1.2, Vegetation, is amended as follows: Delete line six and replace it with: "the Utah Administrative Code, R652-122-200, Minimum Standards for Wildland Fire Ordinance".
 - (b) IFC, Chapter 3, Section 311.1.1, Abandoned premises, is amended as follows: On line 10 delete the words "International Property Maintenance Code and the".
 - (c) IFC, Chapter 3, Section 311.5, Placards, is amended as follows: On line three delete the word "shall" and replace it with the word "may".
 - (d) IFC, Chapter 3, Section 315.2.1, Ceiling clearance, is amended to add the following: "Exception: Where storage is not directly below the sprinkler heads, storage is allowed to be placed to the ceiling on wall mounted shelves that are protected by fire sprinkler heads in occupancies meeting classification as light or ordinary hazard."
- (4) For IFC, Emergency Planning and Preparedness:
- (a) IFC, Chapter 4, Section 404.2, Where required, Subsection 8, is amended as follows: After the word "buildings" add "to include sororities and fraternity houses".
- (5) For IFC, Fire Service Features:
- (a) In IFC, Chapter 5, a new Section 501.5, Access grade and fire flow, is added as follows: "An authority having jurisdiction over a structure built in accordance with the requirements of the International Residential Code as adopted in the State Construction Code, may require an automatic fire sprinkler system for the structure only by ordinance and only if any of the following conditions exist:
 - (i) the structure:
 - (A) is located in an urban-wildland interface area as provided in the Utah Wildland Urban Interface Code adopted as a construction code under the State Construction Code; and
 - (B) does not meet the requirements described in Utah Code, Subsection 65A-8-203 (3)(a) and Utah Administrative Code, R652-122-200, Minimum Standards for Wildland Fire Ordinance;
 - (ii) the structure is in an area where a public water distribution system with fire hydrants does not exist as required in Utah Administrative Code, R309-550-5, Water Main Design;
 - (iii) the only fire apparatus access road has a grade greater than 10% for more than 500 continual feet; or
 - (iv)
 - (A) the water supply to the structure does not provide at least 500 gallons fire flow per minute for a minimum of 30 minutes, if the total square foot living space of the structure is equal to or less than 5,000 square feet;
 - (B) the water supply to the structure does not provide at least 750 gallons per minute fire flow for a minimum of 30 minutes, if the total square foot living space exceeds 5,000 square feet, but is equal to or less than 10,000 square feet; or
 - (C) the water supply to the structure does not provide at least 1,000

gallons per minute fire flow for a minimum of 30 minutes, if the total square foot living space exceeds 10,000 square feet.

- (b) In IFC, Chapter 5, a new Section 507.1.1, Isolated one- and two-family dwellings, is added as follows: "Fire flow may be reduced for an isolated one- and two-family dwelling when the authority having jurisdiction over the dwelling determines that the development of a full fire-flow requirement is impractical."
- (6) For IFC, Building Services and Systems:
- (a) IFC, Chapter 6, Section 607.4, Elevator keys, is deleted and rewritten as follows: "Firefighter service keys shall be kept in a "Supra-Stor-a-key" elevator key box or similar box with corresponding key system that is adjacent to the elevator for immediate use by the fire department. The key box shall contain one key for each elevator, one key for lobby control, and any other keys necessary for emergency service. The elevator key box shall be accessed using a 6049 numbered key. All existing elevator key box locks that do not use the numbered 6049 key shall be changed to the 6049 key by December 31, 2011."
- (b) IFC, Chapter 6, Section 609.1, General, is amended as follows: On line three after the word "Code" add the words "and NFPA 96".
- (7) For IFC, Fire Protection Systems:
- (a) IFC, Chapter 9, Section 901.2, Construction documents, is amended to add the following at the end of the section: "The code official has the authority to request record drawings ("as built") to verify any modifications to the previously approved construction documents."
- (b) IFC, Chapter 9, Section 902.1, Definitions, RECORD DRAWINGS, is deleted and rewritten as follows: "Drawings ("as built") that document all aspects of a fire protection system as installed."
- (c) IFC, Chapter 9, Section 903.2.1.2, Group A-2, is amended to add the following subsection: "4. An automatic fire sprinkler system shall be provided throughout Group A-2 occupancies where indoor pyrotechnics are used."
- (d) IFC, Chapter 9, Section 903.2.2, Group B ambulatory health care facilities, is amended as follows: On line three delete the words "all fire areas" and replace with the word "buildings".
- (e) IFC, Chapter 9, Section 903.2.4, Group F-1, Subsection 2, is deleted and rewritten as follows: "A Group F-1 fire area is located more than three stories above the lowest level of fire department vehicle access."
- (f) IFC, Chapter 9, Section 903.2.7, Group M, Subsection 2, is deleted and rewritten as follows: "A Group M fire area is located more than three stories above the lowest level of fire department vehicle access."
- (g) IFC, Chapter 9, Section 903.2.8 Group R, is amended to add the following: "Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) constructed in accordance with the International Residential Code for one- and two-family dwellings."
- (h) IFC, Chapter 9, Section 903.2.8, Group R, is amended to add a second exception as follows: "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16 residents, provided the

building is equipped throughout with an approved fire alarm system that is interconnected and receives its primary power from the building wiring and a commercial power system."

(i) IFC, Chapter 9, Section 903.2.9, Group S-1, Subsection 2, is deleted and rewritten as follows: "A Group S-1 fire area is located more than three stories above the lowest level of fire department vehicle access."

(j) (i) IFC, Chapter 9, Section 903.2.10, Group S-2 enclosed parking garages, is deleted and rewritten as follows: "An automatic sprinkler system shall be provided throughout buildings classified as parking garages in accordance with Section 406.2 of the International Building Code or where located beneath other groups."

(ii) IFC, Chapter 9, Section 903.2.10, Group S-2 enclosed parking garages, the exception is deleted and rewritten as follows: "Exception: Parking garages of less than 5,000 square feet (464m²) accessory to Group R-3 occupancies."

(iii) IFC, Chapter 9, Section 903.2.10, Group S-2 enclosed parking garages, is amended to add a second exception, as follows: "Exception: Open parking garages not located beneath other groups if one of the following conditions are met:

1. Access is provided for fire fighting operations to within 150 feet (45 720mm) of all portions of the parking garage as measured from the approved fire department vehicle access, or,

2. Class I standpipes are installed throughout the parking garage."

(k) IFC, Chapter 9, Section 903.2.10.1, Commercial parking garages, is deleted and rewritten as follows: "An automatic sprinkler system shall be provided throughout buildings used for storage of commercial trucks or buses."

(l) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On line six after the word "Code" add "and as amended in Utah's State Construction Code".

(m) IFC, Chapter 9, Section 903.6, Existing Buildings, and Chapter 46, Section 4603.4, Sprinkler systems, are amended to add the following subsection to each section: "903.6.3 Group A-2 and 4603.4.3 Group A-2. An automatic fire sprinkler system shall be provided throughout existing Group A-2 occupancies where indoor pyrotechnics are used."

(n) IFC, Chapter 9, Section 904.11, Commercial cooking systems, is deleted and rewritten as follows: "The automatic fire extinguishing system for commercial cooking systems shall be of a type recognized for protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance with UL300 and listed and labeled for the intended application. The system shall be installed in accordance with this code, its listing and the manufacturer's installation instructions. The exception in Section 904.11 is not deleted and shall remain as currently written in the IFC."

(o) IFC, Chapter 9, Section 904.11.3, Carbon dioxide systems, and Section 904.11.3.1, Ventilation system, are deleted and rewritten as follows:

(i) "Existing automatic fire extinguishing systems used for commercial cooking that use dry chemical are prohibited and shall be removed from service."

(ii) "Existing wet chemical fire extinguishing systems used for commercial cooking that are not UL300 listed and labeled are prohibited and shall be either removed or upgraded to a UL300 listed and labeled system."

(p) IFC, Chapter 9, Section 904.11.4, Special provisions for automatic sprinkler systems, is amended to add the following subsection: "904.11.4.2 Existing automatic fire sprinkler systems protecting commercial cooking equipment, hood, and exhaust systems that generate appreciable depth of cooking oils shall be replaced with a UL300 system that is listed and labeled for the intended application."

(q) IFC, Chapter 9, Section 904.11.6.2, Extinguishing system service, is amended to add the following: "Exception: Automatic fire extinguishing systems located in occupancies where usage is limited and less than six consecutive months, may be serviced annually if the annual service is conducted immediately before the period of usage, and approval is received from the AHJ."

(r) IFC, Chapter 9, Section 905.11, Existing buildings, and IFC, Chapter 46, Section 4603.5, Standpipes, are deleted.

(s) IFC, Chapter 9, Section 907.3, Where required in existing buildings and structures, is deleted, and IFC, Chapter 46, Section 4603.6, Fire alarm systems are deleted and rewritten as follows: "An approved automatic fire detection system shall be installed in accordance with the provisions of this code and NFPA 72. Devices, combinations of devices, appliances, and equipment shall be approved. The automatic fire detectors shall be smoke detectors, except an approved alternative type of detector shall be installed in spaces such as boiler rooms where, during normal operation, products of combustion are present in sufficient quantity to actuate a smoke detector."

(t) IFC, Chapter 9, Section 907.9.5, Maintenance, inspection, and testing, is amended to add the following sentences at the end of the section: "Increases in nuisance alarms shall require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."

(u) IFC, Chapter 9, Section 907.10, Carbon monoxide alarms, is added as follows: "Carbon monoxide alarms shall be installed on each habitable level of a dwelling unit or sleeping unit in Groups R-2, R-3, R-4, and I-1 equipped with fuel burning appliances.

901.10.21.1. If more than one carbon monoxide detector is required they shall be interconnected as required in IFC, Chapter 9, Section 907.2.11.3.

901.10.21.2. In new construction, carbon monoxide detectors shall receive their primary power as required in IFC, Chapter 9, Section 907.2.11.4.

901.10.21.3. Upon completion of the installation, the carbon monoxide detector system will meet the requirements listed in NFPA 720, Installation of

Carbon Monoxide Detection and Warning Equipment and UL2034, Standard for Single and Multiple Station Carbon Monoxide Alarms."

(8) For IFC, Means of Egress:

(a) IFC, Chapter 10, Section 1008.1.9.6, Special locking arrangements in Group I-2, is amended as follows:

(i) The section title "Special locking arrangements in Group I-2." is rewritten to read "Special locking arrangements in Groups I-1 and I-2."

(ii) On line three, after the word "Group", add the words "I-1 and"

(iii) On line two and line four delete the word "delayed" and replace it with the word "controlled".

(iv) Beginning on line 11, the entire sentence that begins with "A building occupant" is deleted.

(v) After existing Item 6 add Item 7 as follows: "7. The secure area or unit with controlled egress doors shall be located at the level of exit discharge in Type V construction."

(b) In IFC, Chapter 10, Section 1008.1.9.7, Delayed egress locks, Item 7 is added after the existing Item 6 as follows: "7. The secure area or unit with delayed egress locks shall be located at the level of exit discharge in Type V construction."

(c) IFC, Chapter 10, Section 1009.4.2, Riser height and tread depth, is amended as follows:

(i) On line six of Exception 5 delete "7¾ inches (197mm)" and replace it with "8 inches".

(ii) On line seven of Exception 5 delete "10 inches (254mm)" and replace it with "9 inches".

(d) IFC, Chapter 10, Section 1009.12, Handrails, is amended to add the following exception: "6. In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails shall be provided on at least one side of stairways consisting of four or more risers."

(e) IFC, Chapter 10, Section 1013.2, Height, is amended to add the following exception: "5. For occupancies in Group R-3 and within individual dwelling units in occupancies in Group R-2, as applicable in Section 101.2, guards shall form a protective barrier not less than 36 inches (914mm)."

(f) IFC, Chapter 10, Section 1015.2.2, Three or more exits or exit access doorways, is amended to add the following sentence at the end of the section: "Additional exits or exit access doorways shall be arranged a reasonable distance apart so that if one becomes blocked, the others will be available."

(g) IFC, Chapter 10, Section 1024, Luminous Egress Path Markings, is deleted.

(h) IFC, Chapter 10, Section 1030.2, Reliability, is amended to add the following: On line six after the word "fire" add the words "and building".

(9) For IFC, Explosives and Fireworks:

(a) IFC, Chapter 33, Section 3301.1.3, Fireworks, Exception 4 is amended to add the following sentence at the end of the exception: "The use of fireworks for display and retail sales is allowed as set forth in Utah Code, Title 53,

Chapter 7, Sections 53-7-220 through 53-7-225 ; Utah Code, Title 11, Chapter 3, County and Municipal Fireworks Act; Utah Administrative Code, R710-2; and the State Fire Code."

(10) For IFC, Flammable and Combustible Liquids:

(a) IFC, Chapter 34, Section 3401.4, Permits, is amended to add the following at the end of the section: "The owner of an underground tank that is out of service for longer than one year, shall receive a Temporary Closure Notice from the Department of Environmental Quality and a copy shall be given to the AHJ."

(b) IFC, Chapter 34, Section 3406.1, General, is amended to add the following special operation: "8. Sites approved by the AHJ".

(c) IFC, Chapter 34, Section 3406.2, Storage and dispensing of flammable and combustible liquids on farms and construction sites, is amended to add the following: On line five after the words "borrow pits" add the words "and sites approved by the AHJ".

(11) For IFC, Liquefied Petroleum Gas:

(a) IFC, Chapter 38, Section 3809.12, Location of storage outside of buildings, is amended as follows: In Table 3809.12, Doorway or opening to a building with two or more means of egress, with regard to quantities 720 or less and 721 - 2,500, the currently stated "5" is deleted and replaced with "10".

(12) IFC, Chapter 47, Referenced Standards, is amended as follows:

(a) Under the heading NFPA -- National Fire Protection Association, add the following: "NFPA 720, Installation of Carbon Monoxide (CO) Detection and Warning Equipment, 2009 edition."

(b) Under the heading UL -- Underwriters Laboratories, Inc., add the following: "UL2034, Standard for Single and Multiple Station Carbon Monoxide Alarms, 1998."

Section 202. Amendments and additions -- NFPA.

The following amendments and additions are adopted for application statewide:

(1) For NFPA 72, National Fire Alarm Code:

(a) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, 2007 edition."

(b) NFPA 72, Chapter 4, Section 4.3.2, System Designer, Subsection 4.3.2.2(2), is deleted and rewritten as follows: "National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

(c) NFPA 72, Chapter 4, Section 4.3.3, System Installer, Subsection 4.3.3(2), is deleted and rewritten as follows: "National Institute of Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

(d) NFPA 72, Chapter 4, Section 4.4.3.7, Alarm Signal Deactivation, Subsection 4.4.3.7.2, is amended to add the following sentence: "When approved by the AHJ, the audible notification appliances may be deactivated during the investigation mode to prevent unauthorized reentry into the building."

- (e) NFPA 72, Chapter 4, Section 4.4.5, Protection of Fire Alarm System, is deleted and rewritten as follows: "Automatic smoke detection shall be provided at the location of each fire alarm control unit(s), notification appliance circuit power extenders, and supervising station transmitting equipment to provide notification of fire at the location."
- (f) In NFPA 72, Chapter 4, Section 4.4.5, a new Exception 1, is added as follows: "When ambient conditions prohibit installation of automatic smoke detection, automatic heat detection shall be permitted."
- (g) In NFPA 72, Chapter 6, Section 6.8.5.9, Signal Initiation -- Fire Pump, Subsection 6.8.5.9.3 is added as follows: "Automatic fire pumps shall be supervised in accordance with NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection, and the AHJ."
- (h) NFPA 72, Chapter 7, Section 7.4.1, General Requirements, Subsection 7.4.1.2, is amended as follows: On line three delete "110dBA" and replace it with "120dBA".
- (i) NFPA 72, Chapter 8, Section 8.3.4, Indication of Central Station Service, Subsection 8.3.4.7 is amended as follows: On line two, after the word "notified" insert the words "without delay".
- (j) NFPA 72, Chapter 10, Section 10.2.2.5, Service Personnel Qualifications and Experience, Subsection 10.2.2.5.1, is deleted and rewritten as follows: "Service personnel shall be qualified and experienced in the inspection, testing, and maintenance of fire alarm systems. Qualified personnel shall meet the certification requirements stated in Utah Administrative Code, R710-11-3, Fire Alarm System Inspecting and Testing."
- (2) NFPA 1124 Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles:
- (a) In NFPA 1124, Chapter 7, Section 7.2, Special Limits for Retail Sales of Consumer Fireworks, Subsection 7.2.8 is added as follows: "Display of Class C common state approved explosives inside of buildings protected throughout with an automatic fire sprinkler system shall not exceed 25 percent of the area of the retail sales floor or exceed 600 square feet, whichever is less."
- (b) In NFPA 1124, Chapter 7, Section 7.2, Special Limits for Retail Sales of Consumer Fireworks, Subsection 7.2.9 is added as follows: "Rack storage of Class C common state approved explosives inside of buildings is prohibited."
- (c) NFPA 1124, Chapter 7, Section 7.3.1, Exempt Amounts, Subsection 7.3.1.1, is deleted and rewritten as follows: "Display of Class C common state approved explosives inside of buildings not protected with an automatic fire sprinkler system shall not exceed 125 pounds of pyrotechnic composition."
- (d) NFPA 1124, Chapter 7, Section 7.3.15.2, Height of Sales Displays, Subsection 7.3.15.2.2, is amended as follows: On line three delete "12 ft (3.66m)" and replace it with "6 ft".

Part 3. Local Ordinances

Section 301. Grandfathering of local ordinances related to automatic sprinkler systems.

An ordinance adopted by a legislative body of a political subdivision that is in effect on June 30, 2010, and that imposes a requirement related to an automatic sprinkler system for a structure built in accordance with the requirements of the International Residential Code as adopted in the State Construction Code may remain in effect on or after July 1, 2010, notwithstanding that the ordinance is not authorized under State Fire Code, Subsection 201(5).

Section 3. Effective date.

This bill takes effect on July 1, 2010.