

**Representative James A. Dunnigan** proposes the following substitute bill:

**STATE FIRE CODE AMENDMENTS**

2014 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: James A. Dunnigan**

Senate Sponsor: Curtis S. Bramble

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**LONG TITLE**

**General Description:**

This bill amends the State Construction and Fire Codes Act.

**Highlighted Provisions:**

This bill:

- ▶ adds an exception to the requirement that an automatic sprinkler system be installed in certain fire areas; and
- ▶ modifies provisions related to hazardous and environmental conditions.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

This bill takes effect on July 1, 2014.

**Utah Code Sections Affected:**

AMENDS:

**15A-5-202.5**, as enacted by Laws of Utah 2013, Chapter 199

**15A-5-204**, as last amended by Laws of Utah 2013, Chapter 199

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*Be it enacted by the Legislature of the state of Utah:*

Section 1. Section **15A-5-202.5** is amended to read:



26 **15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.**

27 (1) For IFC, Chapter 3, General Requirements:

28 (a) IFC, Chapter 3, Section 304.1.2, Vegetation, is amended as follows: Delete line six  
29 and replace it with: "the Utah Administrative Code, R652-122-200, Minimum Standards for  
30 Wildland Fire Ordinance".

31 (b) IFC, Chapter 3, Section 308.1.2, Throwing or Placing Sources of Ignition, is  
32 deleted and rewritten as follows: "No person shall throw or place, or cause to be thrown or  
33 placed, a lighted match, cigar, cigarette, matches, lighters, or other flaming or glowing  
34 substance or object on any surface or article where it can cause an unwanted fire."

35 (c) IFC, Chapter 3, Section 310.8, Hazardous and Environmental Conditions, is deleted  
36 and rewritten as follows: "When the fire code official determines that hazardous environmental  
37 conditions necessitate controlled use of any ignition source, including fireworks, lighters,  
38 matches, sky lanterns, and smoking materials, any of the following may occur:

39 ~~[(i)]~~ 1. If the hazardous environmental conditions exist in a municipality, the legislative  
40 body of [a] the municipality [~~within which the hazardous environmental conditions exist~~] may  
41 prohibit [~~only~~] the ignition or use of [~~the~~] an ignition source in mountainous, brush-covered, or  
42 forest-covered areas or the wildland urban interface area, which means the line, area, or zone  
43 where structures or other human development meet or intermingle with undeveloped wildland  
44 or land being used for an agricultural purpose[~~;~~and].

45 ~~[(ii) where]~~ 2. Except as provided in paragraph 3, if the hazardous environmental  
46 conditions exist in an unincorporated [~~areas that meet the description in Subsection (1)(c)(i)]~~  
47 area, the state forester may prohibit [~~the~~] an ignition or use of the ignition source in all or part  
48 of [~~theses~~] the areas described in paragraph 1 that are within the unincorporated area, after  
49 consulting with the county fire code official [~~having~~] who has jurisdiction over that area.[~~"~~]

50 3. If the hazardous environmental conditions exist in a township created under Section  
51 17-27a-306 that is in a county of the first class, the county legislative body may prohibit the  
52 ignition or use of an ignition source in all or part of the areas described in paragraph 1 that are  
53 within the township."

54 (d) IFC, Chapter 3, Section 311.1.1, Abandoned Premises, is amended as follows: On  
55 line 10 delete the words "International Property Maintenance Code and the".

56 (e) IFC, Chapter 3, Section 311.5, Placards, is amended as follows: On line three delete

57 the word "shall" and replace it with the word "may".

58 (f) IFC, Chapter 3, Section 315.2.1, Ceiling Clearance, is amended to add the  
59 following: "Exception: Where storage is not directly below the sprinkler heads, storage is  
60 allowed to be placed to the ceiling on wall-mounted shelves that are protected by fire sprinkler  
61 heads in occupancies meeting classification as light or ordinary hazard."

62 (2) IFC, Chapter 4, Emergency Planning and Preparedness:

63 (a) IFC, Chapter 4, Section 404.2, Where required, Subsection 8, is amended as  
64 follows: After the word "buildings" add "to include sororities and fraternity houses".

65 (b) IFC, Chapter 4, Section 405.2, Table 405.2, is amended to add the following  
66 footnotes:

67 (i) "e. Secondary schools in Group E occupancies shall have an emergency evacuation  
68 drill for fire conducted at least every two months, to a total of four emergency evacuation drills  
69 during the nine-month school year. The first emergency evacuation drill for fire shall be  
70 conducted within 10 school days after the beginning of classes, and the third emergency  
71 evacuation drill for fire shall be conducted 10 school days after the beginning of the next  
72 calendar year. The second and fourth emergency evacuation drills may be substituted by a  
73 security or safety drill to include shelter in place, earthquake drill, or lock down for violence."

74 (ii) "f. In Group E occupancies, excluding secondary schools, if the AHJ approves, the  
75 monthly required emergency evacuation drill can be substituted by a security or safety drill to  
76 include shelter in place, earthquake drill, or lock down for violence. The routine emergency  
77 evacuation drill for fire must be conducted at least every other evacuation drill."

78 (iii) "g. A-3 occupancies in academic buildings of institutions of higher learning are  
79 required to have one emergency evacuation drill per year, provided the following conditions are  
80 met:

81 (A) The building has a fire alarm system in accordance with Section 907.2.

82 (B) The rooms classified as assembly shall have fire safety floor plans as required in  
83 Section 404.3.2(4) posted.

84 (C) The building is not classified a high-rise building.

85 (D) The building does not contain hazardous materials over the allowable quantities by  
86 code."

87 Section 2. Section **15A-5-204** is amended to read:

88           **15A-5-204. Amendments and additions to IFC related to fire protection systems.**

89           For IFC, Fire Protection Systems:

90           (1) IFC, Chapter 9, Section 901.2, Construction Documents, is amended to add the  
91 following at the end of the section: "The code official has the authority to request record  
92 drawings ("as built") to verify any modifications to the previously approved construction  
93 documents."

94           (2) IFC, Chapter 9, Section 901.4.6, Pump and Riser Room Size, is deleted and  
95 replaced with the following: "Pump and Riser Room Size. Fire pump and automatic sprinkler  
96 system riser rooms shall be designed with adequate space for all installed equipment necessary  
97 for the installation and to provide sufficient working space around the stationary equipment.  
98 Clearances around equipment shall be in accordance with manufacturer requirements and not  
99 less than the following minimum elements:

100           901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided  
101 from the installed equipment to the elements of permanent construction.

102           901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided  
103 between all other installed equipment and appliances.

104           901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all  
105 installed equipment and appliances, to allow for inspection, service, repair or replacement  
106 without removing such elements of permanent construction or disabling the function of a  
107 required fire-resistance-rated assembly.

108           901.4.6.4 Automatic sprinkler system riser rooms shall be provided with a clear and  
109 unobstructed passageway to the riser room of not less than 36 inches, and openings into the  
110 room shall be clear and unobstructed, with doors swinging in the outward direction from the  
111 room and the opening providing a clear width of not less than 34 inches and a clear height of  
112 the door opening shall not be less than 80 inches.

113           901.4.6.5 Fire pump rooms shall be provided with a clear and unobstructed  
114 passageway to the fire pump room of not less than 72 inches, and openings into the room shall  
115 be clear, unobstructed and large enough to allow for the removal of the largest piece of  
116 equipment, with doors swinging in the outward direction from the room and the opening  
117 providing a clear width of not less than 68 inches and a clear height of the door opening shall  
118 not be less than 80 inches."

119 (3) IFC, Chapter 9, Section 903.2.1.2, Group A-2, is amended to add the following  
120 subsection: "4. An automatic fire sprinkler system shall be provided throughout Group A-2  
121 occupancies where indoor pyrotechnics are used."

122 (4) IFC, Chapter 9, Section 903.2.2, Ambulatory Health Care Facilities, is amended as  
123 follows: On line two delete the words "all fire areas floor" and replace with the word  
124 "buildings" and delete the last paragraph.

125 (5) IFC, Chapter 9, Section 903.2.4, Group F-1, Subsection 2, is deleted and rewritten  
126 as follows: "A Group F-1 fire area is located more than three stories above the lowest level of  
127 fire department vehicle access."

128 (6) IFC, Chapter 9, Section 903.2.7, Group M, Subsection 2, is deleted and rewritten as  
129 follows: "A Group M fire area is located more than three stories above the lowest level of fire  
130 department vehicle access."

131 (7) IFC, Chapter 9, Section 903.2.8 Group R, is amended to add the following:  
132 "Exception: Detached one- and two-family dwellings and multiple single-family dwellings  
133 (townhouses) constructed in accordance with the International Residential Code for one- and  
134 two-family dwellings."

135 (8) IFC, Chapter 9, Section 903.2.8, Group R, is amended to add a second exception as  
136 follows: "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not  
137 containing more than 16 residents, provided the building is equipped throughout with an  
138 approved fire alarm system that is interconnected and receives its primary power from the  
139 building wiring and a commercial power system."

140 (9) IFC, Chapter 9, Section 903.2.8 Group R, is amended to add a third exception as  
141 follows: "Exception: Single story group R-1 occupancies with fire areas not more than 2,000  
142 square feet, that contain no installed plumbing or heating, where no cooking occurs, and  
143 constructed of Type I-A, I-B, II-A, or II-B construction."

144 [~~9~~] (10) IFC, Chapter 9, Section 903.2.9, Group S-1, Subsection 2, is deleted and  
145 rewritten as follows: "A Group S-1 fire area is located more than three stories above the lowest  
146 level of fire department vehicle access."

147 [~~10~~] (11) IFC, Chapter 9, Section 903.3.1.1 is amended by adding the following  
148 subsection: "903.3.1.1.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler  
149 system installed in accordance with NFPA 13 may not exceed a maximum concentration of

150 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may  
151 not exceed 150 gallons."

152 [~~(11)~~] (12) IFC, Chapter 9, Section 903.3.1.2 is amended by adding the following  
153 subsection: "903.3.1.2.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler  
154 system installed in accordance with NFPA 13R may not exceed a maximum concentration of  
155 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may  
156 not exceed 150 gallons."

157 [~~(12)~~] (13) IFC, Chapter 9, Section 903.3.1.3 is amended by adding the following  
158 subsection: "903.3.1.3.1 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler  
159 system installed in accordance with NFPA 13D may not exceed a maximum concentration of  
160 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may  
161 not exceed 150 gallons."

162 [~~(13)~~] (14) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On  
163 line six, after the word "Code", add "and as amended in Utah's State Construction Code".

164 [~~(14)~~] (15) IFC, Chapter 9, Section 903.5 is amended to add the following subsection:  
165 "903.5.1 Tag and Information. A tag shall be attached to the riser indicating the date the  
166 antifreeze solution was tested. The tag shall also indicate the type and concentration of  
167 antifreeze solution by volume with which the system is filled, the name of the contractor that  
168 tested the antifreeze solution, the contractor's license number, and a warning to test the  
169 concentration of the antifreeze solutions at yearly intervals."

170 [~~(15)~~] (16) IFC, Chapter 9, Section 904.11, Commercial cooking systems, is deleted  
171 and rewritten as follows: "The automatic fire extinguishing system for commercial cooking  
172 systems shall be of a type recognized for protection of commercial cooking equipment and  
173 exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance  
174 with UL300 and listed and labeled for the intended application. The system shall be installed  
175 in accordance with this code, its listing and the manufacturer's installation instructions. The  
176 exception in Section 904.11 is not deleted and shall remain as currently written in the IFC."

177 [~~(16)~~] (17) IFC, Chapter 9, Section 904.11.3, Carbon dioxide systems, and Section  
178 904.11.3.1, Ventilation system, are deleted and rewritten as follows:

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

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

184 [~~(17)~~] (18) IFC, Chapter 9, Section 904.11.4, Special provisions for automatic sprinkler  
185 systems, is amended to add the following subsection: "904.11.4.2 Existing automatic fire  
186 sprinkler systems protecting commercial cooking equipment, hood, and exhaust systems that  
187 generate appreciable depth of cooking oils shall be replaced with a UL300 system that is listed  
188 and labeled for the intended application."

189 [~~(18)~~] (19) IFC, Chapter 9, Section 904.11.6.2, Extinguishing system service, is  
190 amended to add the following: "Exception: Automatic fire extinguishing systems located in  
191 occupancies where usage is limited and less than six consecutive months may be serviced  
192 annually if the annual service is conducted immediately before the period of usage, and  
193 approval is received from the AHJ."

194 [~~(19)~~] (20) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open  
195 Parking Garages. Open parking garages shall be equipped with an approved Class I manual  
196 standpipe system when fire department access is not provided for firefighting operations to  
197 within 150 feet of all portions of the open parking garage as measured from the approved fire  
198 department vehicle access. Class I manual standpipe shall be accessible throughout the parking  
199 garage such that all portions of the parking structure are protected within 150 feet of a hose  
200 connection.

201 Exception: Open parking garages equipped throughout with an automatic sprinkler  
202 system in accordance with Section 903.3.1.1."

203 [~~(20)~~] (21) IFC, Chapter 9, Section 905.8, Dry Standpipes, Exception is deleted and  
204 rewritten as follows: "Where subject to freezing conditions and approved by the fire code  
205 official."

206 [~~(21)~~] (22) IFC, Chapter 9, Section 905.11, Existing buildings, and IFC, Chapter 11,  
207 Section 1103.6, Standpipes, are deleted.

208 [~~(22)~~] (23) In IFC, Chapter 9, Section 906.1, Where Required, the exception under  
209 paragraph 1 is deleted and rewritten to read: "Exception: In new and existing Group A, B, and  
210 E occupancies equipped with quick response sprinklers, portable fire extinguishers shall be  
211 required only in locations specified in items 2 through 6.

212 [~~(23)~~] (24) IFC, Chapter 9, Section 907.2.3 Group E:

213 (a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system  
214 that initiates the occupant notification system in accordance with Section 907.5 and installed in  
215 accordance with Section 907.6 shall be installed in Group E occupancies."

216 (b) Exception number 3, on line five, delete the words, "emergency voice/alarm  
217 communication system" and replace with "occupant notification system."

218 [~~(24)~~] (25) IFC, Chapter 9, 907.8, Inspection, testing, and maintenance, is amended to  
219 add the following sentences at the end of the section: "Increases in nuisance alarms shall  
220 require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after  
221 sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."

222 [~~(25)~~] (26) IFC, Chapter 9, Section 908.7, Carbon Monoxide Alarms, is deleted and  
223 rewritten as follows: "Carbon monoxide alarms shall be installed on each habitable level of a  
224 dwelling unit or sleeping unit in Groups R-1, R-2, R-3, R-4, I-1, and I-4 equipped with fuel  
225 burning appliances.

226 908.7.1 If more than one carbon monoxide detector is required, they shall be  
227 interconnected as required in IFC, Chapter 9, Section 907.2.11.3.

228 908.7.2 In new construction, a carbon monoxide detector shall receive its primary  
229 power as required under IFC, Chapter 9, Section 907.2.11.4.

230 908.7.3 Upon completion of the installation, the carbon monoxide detector system will  
231 meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection and  
232 Warning Equipment and UL2034, Standard for Single and Multiple Carbon Monoxide Alarms.

233 [~~(26)~~] (27) IFC Section 908.7.1 is renumbered to 908.7.4.

234 Section 3. **Effective date.**

235 This bill takes effect on July 1, 2014.