

**STATE FIRE CODE REVISIONS**

2016 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Mike Schultz**

Senate Sponsor: J. Stuart Adams

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**LONG TITLE**

**General Description:**

This bill amends provisions related to the State Fire Code.

**Highlighted Provisions:**

This bill:

▶ incorporates the 2015 edition of the International Fire Code by reference, with amendments; and

▶ modifies fire code requirements related to:

- a fire code official's authority to determine an emergency requirement;
- solar photovoltaic systems;
- residential and commercial automatic fire sprinkler systems;
- carbon monoxide detection systems;
- fire alarm systems;
- water control valves and flow notification systems; and
- hazardous materials.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

⚡→ [None] This bill provides a special effective date. ←⚡

**Utah Code Sections Affected:**

AMENDS:



- 28 **15A-5-103**, as last amended by Laws of Utah 2014, Chapter 189
- 29 **15A-5-202**, as last amended by Laws of Utah 2015, Chapter 158
- 30 **15A-5-202.5**, as last amended by Laws of Utah 2015, Chapters 158 and 352
- 31 **15A-5-203**, as last amended by Laws of Utah 2015, Chapter 158
- 32 **15A-5-204**, as last amended by Laws of Utah 2015, Chapter 185
- 33 **15A-5-205**, as last amended by Laws of Utah 2013, Chapter 199
- 34 **15A-5-205.5**, as last amended by Laws of Utah 2014, Chapter 74
- 35 **15A-5-206**, as last amended by Laws of Utah 2013, Chapter 199
- 36 **15A-5-207**, as last amended by Laws of Utah 2013, Chapter 199
- 37 **15A-5-302**, as last amended by Laws of Utah 2013, Chapter 199
- 38 **53-7-225**, as last amended by Laws of Utah 2013, Chapter 357

ENACTS:

- 40 **15A-5-304**, Utah Code Annotated 1953

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

Section 1. Section **15A-5-103** is amended to read:

**15A-5-103. Nationally recognized codes incorporated by reference.**

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

(1) the International Fire Code, [~~2012~~] 2015 edition, excluding appendices, as issued by the International Code Council, Inc., except as amended by Part 2, Statewide Amendments and Additions to International Fire Code Incorporated as Part of State Fire Code;

(2) National Fire Protection Association, NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2011 edition, except as amended by Part 3, Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code; and

(3) National Fire Protection Association, NFPA 1403, Standard on Live Fire Training Evolutions, 2012 edition, except as amended by Part 3, Amendments and Additions to National Fire Protection Association Incorporated as Part of State Fire Code.

Section 2. Section **15A-5-202** is amended to read:

**15A-5-202. Amendments and additions to IFC related to administration, permits, definitions, and general and emergency planning.**

59 (1) For IFC, Chapter 1, Scope and Administration:

60 (a) IFC, Chapter 1, Section 102.5, is deleted and rewritten as follows:

61 "102.5 Application of residential code.

62 If a structure is designed and constructed in accordance with the International

63 Residential Code, the provisions of this code apply only as follows:

64 1. The construction and design provisions of this code apply only to premises  
65 identification, fire apparatus access, fire hydrants and water supplies, and construction permits  
66 required by Section 105.7.

67 2. This code does not supercede the land use, subdivision, or development standards  
68 established by a local jurisdiction.

69 3. The administrative, operational, and maintenance provisions of this code apply."

70 [~~(a)~~] (b) IFC, Chapter 1, Section 102.9, is [~~amended by adding the following~~

71 ~~immediately before the period: "~~] deleted and rewritten as follows:

72 "102.9 Matters not provided for.

73 Requirements that are essential for the public safety of an existing or proposed activity,  
74 building or structure, or for the safety of the occupants thereof, which are not specifically  
75 provided for by this code, shall be determined by the fire code official on an emergency basis  
76 if:

77 (a) the facts known to the fire code official show that an immediate and significant  
78 danger to the public health, safety, or welfare exists; and

79 (b) the threat requires immediate action by the fire code official.

80 [~~(2)~~] 102.9.1 Limitation of emergency order.

81 In issuing its emergency order, the fire code official shall:

82 (a) limit the order to require only the action necessary to prevent or avoid the danger to  
83 the public health, safety, or welfare; and

84 (b) give immediate notice to the persons who are required to comply with the order,  
85 that includes a brief statement of the reasons for the fire code official's order.

86 [~~(3)~~-(a)] 101.9.2 Right to appeal emergency order.

87 If the emergency order issued under this section will result in the continued  
88 infringement or impairment of any legal right or interest of any party, the party shall have a  
89 right to appeal the fire code official's order in accordance with IFC, Chapter 1, Section 108."

90           ~~[(b)]~~ (c) IFC, Chapter 1, Section ~~[105.6.16]~~ 105.6.17, Flammable and combustible  
91 liquids, is amended to add the following section: "12. The owner of an underground tank that  
92 is out of service for longer than one year shall receive a Temporary Closure Notice from the  
93 Department of Environmental Quality and a copy shall be given to the AHJ."

94           ~~[(c)]~~ (d) In IFC, Chapter 1, Section 108, a new Section 108.4, Notice of right to appeal,  
95 is added as follows: "At the time a fire code official makes an order, decision, or determination  
96 that relates to the application or interpretation of this chapter, the fire code official shall inform  
97 the person affected by the order, decision, or determination of the person's right to appeal under  
98 this section. Upon request, the fire code official shall provide a person affected by an order,  
99 decision, or determination that relates to the application or interpretation of this chapter a  
100 written notice that describes the person's right to appeal under this section."

101           (e) A new IFC, Chapter 1, Section 108.1.1, Application of residential code, is added as  
102 follows:

103           108.1.1 Application of residential code.

104           For development regulated by a local jurisdiction's land use authority, the Fire Code  
105 Official's interpretation of this code is subject to the advisory opinion process described in  
106 Section [13-43-205](#) and to a land use appeal authority appointed under Section [10-9a-701](#) or  
107 [17-27a-701](#).

108           ~~[(d)]~~ (f) IFC, Chapter 1, Section 109.3, Notice of violation, is ~~[amended as follows: On~~  
109 ~~line three, after the words "is in violation of this code," insert in the section the phrase "or other~~  
110 ~~pertinent laws or ordinances".]~~ deleted and rewritten as follows:

111           "109.3 Notice of violation.

112           If the fire code official determines that a building, premises, vehicle, storage facility, or  
113 outdoor area is in violation of this code or other pertinent laws or ordinances, the fire code  
114 official is authorized to prepare a written notice of violation that describes the conditions  
115 deemed unsafe and, absent immediate compliance, specifies a time for reinspection."

116           (2) For IFC, Chapter 2, Definitions:

117           (a) IFC, Chapter 2, Section 202, General Definitions, the following definition is added  
118 for Ambulatory Surgical Center: "AMBULATORY SURGICAL CENTER. A building or  
119 portion of a building licensed by the Utah Department of Health where procedures are  
120 performed that may render patients incapable of self preservation where care is less than 24

121 hours."

122 (b) IFC, Chapter 2, Section 202, General Definitions, FOSTER CARE FACILITIES is  
123 amended as follows: the word "Foster" is changed to the word "Child."

124 (c) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
125 Educational Group E, Day care facilities, is amended as follows: On line three delete the word  
126 "five" and replace it with the word "four". On line four after the word "supervision" add the  
127 words "child care centers."

128 (d) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
129 Educational Group E, Five or fewer children is amended as follows: On line one the word  
130 "five" is deleted and replaced with the word "four" in both places.

131 (e) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
132 Educational Group E, Five or fewer children in a dwelling unit, the word "five" is deleted and  
133 replaced with the word "four" in both places.

134 (f) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
135 Educational Group E, a new section is added as follows: "Child Day Care -- Residential  
136 Certificate or a Family License. Areas used for child day care purposes with a Residential  
137 Certificate R430-50 or a Family License, as defined in Utah Administrative Code, R430-90,  
138 Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as provided in  
139 Residential Group R-3, or shall comply with the International Residential Code in accordance  
140 with Section R101.2."

141 (g) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
142 Educational Group E, a new section is added as follows: "Child Care Centers. Areas used for  
143 Hourly Child Care Centers, as defined in Utah Administrative Code, R430-60, Child Care  
144 Center as defined in Utah Administrative Code, R430-100, or Out of School Time Programs,  
145 as defined in Utah Administrative Code, R430-70, may be classified as accessory  
146 occupancies."

147 (h) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
148 Institutional Group I, Group I-1, is amended as follows: [~~On line 8 add~~] Insert "Type I" in front  
149 of the words "Assisted living facilities".

150 (i) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
151 Institutional Group I, Five or fewer persons receiving care is amended as follows: On line four

152 after "International Residential Code" the rest of the section is deleted.

153 (j) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
154 Institutional Group I, Group I-2, is amended as follows:

155 (i) On line three delete the word "five" and insert the word "three".

156 (ii) On line six the word "foster" is deleted and replaced with the word "child".

157 (iii) On line 10, after the words "Psychiatric hospitals", add the following to the list:

158 "both intermediate nursing care and skilled nursing care facilities, ambulatory surgical centers  
159 with five or more operating rooms, and Type II assisted living facilities. Type II assisted living  
160 facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted living  
161 facilities with at least six and not more than 16 residents shall be classified as a Group I-1  
162 facility".

163 (k) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
164 Institutional Group I, Group I-4, Day care facilities, Classification as Group E, is amended as  
165 follows:

166 (i) On line two delete the word "five" and replace it with the word "four".

167 (ii) On line three delete the words "2 1/2 years or less of age" and replace with the  
168 words "under the age of two".

169 (l) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
170 Institutional Group Care I, Group I-4, Day care facilities, Five or fewer occupants receiving  
171 care in a dwelling unit, is amended as follows: On lines one and two the word "five" is deleted  
172 and replaced with the word "four".

173 (m) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
174 Residential Group R-3, the words "and single family dwellings complying with the IRC" are  
175 added after the word "Residential occupancies".

176 (n) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
177 Residential Group R-3, Care facilities within a dwelling, is amended as follows: On line three  
178 after the word "dwelling" insert "other than child care".

179 (o) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
180 Residential Group R-3, a new section is added as follows: "Child Care. Areas used for child  
181 care purposes may be located in a residential dwelling unit when all of the following conditions  
182 are met:

183 1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted  
184 under the authority of the Utah Fire Prevention Board;

185 2. Use is approved by the Utah Department of Health under the authority of the Utah  
186 Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following  
187 categories:

188 1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or

189 1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and

190 3. Compliance with all zoning regulations of the local regulator."

191 (p) IFC, Chapter 2, Section 202, General Definitions, RECORD DRAWINGS, the  
192 definition for "RECORD DRAWINGS" is modified by deleting the words "a fire alarm  
193 system" and replacing them with "any fire protection system".

194 Section 3. Section **15A-5-202.5** is amended to read:

195 **15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.**

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

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

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

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

208 1. If the hazardous environmental conditions exist in a municipality, the legislative  
209 body of the municipality may prohibit the ignition or use of an ignition source in mountainous,  
210 brush-covered, or forest-covered areas or the wildland urban interface area, which means the  
211 line, area, or zone where structures or other human development meet or intermingle with  
212 undeveloped wildland or land being used for an agricultural purpose.

213 2. Except as provided in paragraph 3, if the hazardous environmental conditions exist

214 in an unincorporated area, the state forester may prohibit the ignition or use of an ignition  
215 source in all or part of the areas described in paragraph 1 that are within the unincorporated  
216 area, after consulting with the county fire code official who has jurisdiction over that area.

217 3. If the hazardous environmental conditions exist in a metro township created under  
218 Title 10, Chapter 2a, Part 4, Incorporation of Metro Townships and Unincorporated Islands in a  
219 County of the First Class, on and after May 12, 2015, the metro township legislative body may  
220 prohibit the ignition or use of an ignition source in all or part of the areas described in  
221 paragraph 1 that are within the township."

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

224 [(e)] (d) IFC, Chapter 3, Section 311.5, Placards, is amended as follows: On line three  
225 delete the word "shall" and replace it with the word "may".

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

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

231 (a) IFC, Chapter 4, Section ~~[404.2, Where required, Subsection 8, is amended as~~  
232 ~~follows: After the word "buildings" add "to include sororities and fraternity houses".]~~  
233 403.10.2.1, College and university buildings, is deleted and replaced with the following:

234 "403.10.2.1 College and university buildings and fraternity and sorority houses.

235 (a) College and university buildings, including fraternity and sorority houses, shall  
236 prepare an approved fire safety and evacuation plan, in accordance with Section 404.

237 (b) Group R-2 college and university buildings, including fraternity and sorority  
238 houses, shall comply with Sections 403.10.2.1.1 and 403.10.2.1.2."

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

241 (i) "e. Secondary schools in Group E occupancies shall have an emergency evacuation  
242 drill for fire conducted at least every two months, to a total of four emergency evacuation drills  
243 during the nine-month school year. The first emergency evacuation drill for fire shall be  
244 conducted within 10 school days after the beginning of classes. The third emergency



245 evacuation drill for fire, weather permitting, shall be conducted 10 school days after the  
246 beginning of the next calendar year. The second and fourth emergency evacuation drills may  
247 be substituted by a security or safety drill to include shelter in place, earthquake drill, or lock  
248 down for violence. If inclement weather causes a secondary school to miss the 10-day deadline  
249 for the third emergency evacuation drill for fire, the secondary school shall perform the third  
250 emergency evacuation drill for fire as soon as practicable after the missed deadline."

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

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

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

259 (B) The rooms classified as assembly shall have fire safety floor plans as required in  
260 [~~Section 404.3.2(4)~~] Subsection 404.2.2(4) posted.

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

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

264 Section 4. Section **15A-5-203** is amended to read:

265 **15A-5-203. Amendments and additions to IFC related to fire safety, building, and**  
266 **site requirements.**

267 (1) For IFC, Chapter 5, Fire Service Features:

268 (a) In IFC, Chapter 5, a new Section 501.5, Access grade and fire flow, is added as  
269 follows: "An authority having jurisdiction over a structure built in accordance with the  
270 requirements of the International Residential Code as adopted in the State Construction Code,  
271 may require an automatic fire sprinkler system for the structure only by ordinance and only if  
272 any of the following conditions exist:

273 (i) the structure:

274 (A) is located in an urban-wildland interface area as provided in the Utah Wildland  
275 Urban Interface Code adopted as a construction code under the State Construction Code; and

276 (B) does not meet the requirements described in Utah Code, Subsection  
277 65A-8-203~~(3)~~(4)(a) and Utah Administrative Code, R652-122-200, Minimum Standards for  
278 Wildland Fire Ordinance;

279 (ii) the structure is in an area where a public water distribution system with fire  
280 hydrants does not exist as required in Utah Administrative Code, R309-550-5, Water Main  
281 Design;

282 (iii) the only fire apparatus access road has a grade greater than 10% for more than 500  
283 continual feet; ~~or~~

284 ~~[(iv) (A) the water supply to the structure does not provide at least 500 gallons fire  
285 flow per minute for a minimum of 30 minutes, if the total square foot living space of the  
286 structure is equal to or less than 5,000 square feet;]~~

287 ~~[(B) the water supply to the structure does not provide at least 750 gallons per minute  
288 fire flow for a minimum of 30 minutes, if the total square foot living space exceeds 5,000  
289 square feet, but is equal to or less than 10,000 square feet; or]~~

290 ~~[(C) the water supply to the structure does not provide at least 1,000 gallons per minute  
291 fire flow for a minimum of 30 minutes, if the total square foot living space exceeds 10,000  
292 square feet."]~~

293 (iv) the total floor area of all floor levels within the exterior walls of the dwelling unit  
294 exceeds 10,000 square feet; or

295 (v) the total floor area of all floor levels within the exterior walls of the dwelling unit is  
296 double the average of the total floor area of all floor levels of unsprinkled homes in the  
297 subdivision that are no larger than 10,000 square feet.

298 (b) In IFC, Chapter 5, Section 506.1, Where Required, is deleted and rewritten as  
299 follows: "Where access to or within a structure or an area is restricted because of secured  
300 openings or where immediate access is necessary for life-saving or fire-fighting purposes, the  
301 fire code official, after consultation with the building owner, may require a key box to be  
302 installed in an approved location. The key box shall contain keys to gain necessary access as  
303 required by the fire code official. For each fire jurisdiction that has at least one building with a  
304 required key box, the fire jurisdiction shall adopt an ordinance, resolution, or other operating  
305 rule or policy that creates a process to ensure that each key to each key box is properly  
306 accounted for and secure."

307 (c) In IFC, Chapter 5, a new Section 507.1.1, Isolated one- and two-family dwellings,  
308 is added as follows: "Fire flow may be reduced for an isolated one- and two-family dwelling  
309 when the authority having jurisdiction over the dwelling determines that the development of a  
310 full fire-flow requirement is impractical."

311 (d) In IFC, Chapter 5, a new Section 507.1.2, Pre-existing subdivision lots, is added as  
312 follows [~~"Total water supply requirements~~]:

313 507.1.2 Pre-existing subdivision lots.

314 "The requirements for a pre-existing subdivision lot shall not exceed the [fire flows]  
315 requirements described in Section 501.5[(iv) for the largest one- or two-family dwelling,  
316 protected by an automatic fire sprinkler system, on a subdivision lot platted before December  
317 31, 1980, unless the municipality or county in which the lot is located provides the required fire  
318 flow capacity]."

319 (e) In IFC, Chapter 5, Section 510.1, Emergency Responder Radio Coverage in New  
320 Buildings, is amended by adding: "When required by the fire code official," at the beginning of  
321 the first paragraph.

322 (2) For IFC, Chapter 6, Building Services and Systems:

323 (a) Delete the section title "605.11.1.2 Solar photovoltaic systems for Group R-3." and  
324 replace with the section title "605.11.1.2 Solar photovoltaic systems for Group R-3 and  
325 buildings constructed in accordance with IRC."

326 (b) Section 605.11.1.2, Solar photovoltaic systems for Group R-3, Exception, is  
327 deleted and rewritten as follows: "Exception: Reduction in pathways and clear access width  
328 shall be permitted where shown that a rational approach has been used and that the reductions  
329 are warranted, and approved by the fire code official."

330 ~~[(a)]~~ (c) In IFC, Chapter 6, Section ~~[605.11.3.3.1]~~ 605.11.1.3.1, Access, is deleted and  
331 rewritten as follows: "There shall be a minimum three foot wide (914 mm) clear perimeter  
332 around the edges of the roof."

333 ~~[(b)]~~ (d) In IFC, Chapter 6, Section ~~[605.11.3.3.2]~~ 605.11.1.3.2, Pathways, is deleted  
334 and rewritten as follows: "The solar installation shall be designed to provide designated  
335 pathways. The pathways shall meet the following requirements:

336 1. The pathway shall be over areas capable of supporting the live load of fire fighters  
337 accessing the roof.

338 2. The centerline axis pathways shall be provided in both axes of the roof. Centerline  
339 axis pathways shall run where the roof structure is capable of supporting the live load of fire  
340 fighters accessing the roof.

341 3. Smoke and heat vents required by Section 910.2.1 or 910.2.2 of this Code, shall be  
342 provided with a clear pathway width of not less than three feet (914 mm) to vents.

343 4. Access to roof area required by Section [~~504.2 or 1009.16~~] 504.3 or 1011.12 of this  
344 Code, shall be provided with a clear pathway width of not less than three feet (914 mm) around  
345 access opening and at least three feet (914 mm) clear pathway to parapet or roof edge."

346 [~~(c) In IFC, Chapter 6, Section 605.11.3.2, Residential Systems for One and Two~~  
347 ~~Family Dwellings, is deleted and rewritten as follows: "Access to residential systems for one~~  
348 ~~and two family dwellings shall be provided in accordance with Sections 605.11.3.2.1 through~~  
349 ~~605.11.3.2.4.]~~

350 [~~Exception: Reduction in pathways and clear access width shall be permitted where~~  
351 ~~shown that a rational approach has been used and that such reductions are warranted when~~  
352 ~~approved by the Fire Code Official."]~~

353 [~~(d)~~] (e) In IFC, Chapter 6, Section [~~605.11.3.3.3~~] 605.11.1.3.3, Smoke Ventilation, is  
354 deleted and rewritten as follows: "The solar installation shall be designed to meet the following  
355 requirements:

356 1. Arrays shall be no greater than 150 feet (45.720 mm) by 150 feet (45.720 mm) in  
357 distance in either axis in order to create opportunities for fire department smoke ventilation  
358 operations.

359 2. Smoke ventilation options between array sections shall be one of the following:

360 2.1. A pathway six feet (1829 mm) or greater in width.

361 2.2. A three foot (914 mm) or greater in width pathway and bordering roof skylights or  
362 smoke and heat vents when required by Section 910.2.1 or Section 910.2.2 of this Code.

363 2.3. Smoke and heat vents designed for remote operation using devices that can be  
364 connected to the vent by mechanical, electrical, or any other suitable means, shall be protected  
365 as necessary to remain operable for the design period. Controls for remote operation shall be  
366 located in a control panel, clearly identified and located in an approved location."

367 [~~(e)~~] (f) In IFC, Chapter 6, Section [~~607.4~~] 607.7, Elevator Key Location, is deleted  
368 and rewritten as follows: "Firefighter service keys shall be kept in a "Supra-Stor-a-key"

369 elevator key box or similar box with corresponding key system that is adjacent to the elevator  
370 for immediate use by the fire department. The key box shall contain one key for each elevator,  
371 one key for lobby control, and any other keys necessary for emergency service. The elevator  
372 key box shall be accessed using a 6049 numbered key."

373 ~~(f)~~ (g) In IFC, Chapter 6, Section 609.1, General, is amended as follows: On line  
374 three, after the word "Code", add the words "and NFPA 96".

375 (3) For IFC, Chapter 7, Fire-Resistance-Rated Construction, IFC, Chapter 7, Section  
376 703.2, is amended to add the following: "Exception: In Group E Occupancies, where the  
377 corridor serves an occupant load greater than 30 and the building does not have an automatic  
378 fire sprinkler system installed, the door closers may be of the friction hold-open type on  
379 classrooms' doors with a rating of 20 minutes or less only."

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

381 **15A-5-204. Amendments and additions to IFC related to fire protection systems.**

382 For IFC, Fire Protection Systems:

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

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

393 901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided  
394 from the installed equipment to the elements of permanent construction.

395 901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided  
396 between all other installed equipment and appliances.

397 901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all  
398 installed equipment and appliances, to allow for inspection, service, repair or replacement  
399 without removing such elements of permanent construction or disabling the function of a

400 required fire-resistance-rated assembly.

401           901.4.6.4 Automatic sprinkler system riser rooms shall be provided with a clear and  
402 unobstructed passageway to the riser room of not less than 36 inches, and openings into the  
403 room shall be clear and unobstructed, with doors swinging in the outward direction from the  
404 room and the opening providing a clear width of not less than 34 inches and a clear height of  
405 the door opening shall not be less than 80 inches.

406           901.4.6.5 Fire pump rooms shall be provided with a clear and unobstructed  
407 passageway to the fire pump room of not less than 72 inches, and openings into the room shall  
408 be clear, unobstructed and large enough to allow for the removal of the largest piece of  
409 equipment, with doors swinging in the outward direction from the room and the opening  
410 providing a clear width of not less than 68 inches and a clear height of the door opening shall  
411 not be less than 80 inches."

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

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

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

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

424           (7) IFC, Chapter 9, Section 903.2.8 Group R, [~~is amended to add the following:~~  
425 ~~"Exception: Detached one- and two-family dwellings and multiple single-family dwellings~~  
426 ~~(townhouses) constructed in accordance with the International Residential Code for one- and~~  
427 ~~two-family dwellings."]~~ including all subsections, is deleted and rewritten as follows:

428           "903.2.8 Group R.

429           An automatic sprinkler system installed in accordance with Section 903.3 shall be  
430 proved throughout all buildings with a Group R fire area.

431 Exceptions:

432 1. Detached one- and two-family dwellings and multiple single-family dwellings  
433 (townhouses) constructed in accordance with the International Residential Code for One- and  
434 Two-Family Dwellings.

435 2. Single story Group R-1 occupancies with fire areas not more than 2,000 square feet  
436 that contain no installed plumbing or heating, where no cooking occurs, and constructed of  
437 Type I-A, I-B, II-A, or II-B construction.

438 3. Group R-4 fire areas not more than 4,500 gross square feet and not containing more  
439 than 16 residents, provided the building is equipped throughout with an approved fire alarm  
440 system that is interconnected and receives its primary power from the building wiring and a  
441 commercial power system.

442 903.2.8.1 Group R-4 Condition 2.

443 An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be  
444 permitted in Group R-4 Condition 2 occupancies. Attics shall be protected in accordance with  
445 Section 903.2.8.1.1 or 903.2.8.1.2.

446 903.2.8.1.1 Attics used for living purposes, storage, or fuel-fire equipment.

447 Attics used for living purposes, storage, or fuel-fired equipment shall be protected  
448 throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2.

449 903.2.8.1.2 Attics not used for living purposes, storage, or fuel-fired equipment.

450 Attics not used for living purposes, storage, or fuel-fired equipment shall be protected  
451 in accordance with one of the following:

452 1. Attics protected throughout by a heat detector system arranged to activate the  
453 building fire alarm system in accordance with Section 907.2.10.

454 2. Attics constructed of noncombustible materials.

455 3. Attics constructed of fire-retardant-treated wood framing complying with Section  
456 2303.2 of the International Building Code.

457 4. The automatic sprinkler system shall be extended to provide protection throughout  
458 the attic space."

459 ~~[(8) IFC, Chapter 9, Section 903.2.8, Group R, is amended to add a second exception~~  
460 ~~as follows: "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not~~  
461 ~~containing more than 16 residents, provided the building is equipped throughout with an~~

462 approved fire alarm system that is interconnected and receives its primary power from the  
463 building wiring and a commercial power system."]

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

468 [~~(10)~~ (8) IFC, Chapter 9, Section 903.2.9, Group S-1, Subsection 2, is deleted and  
469 rewritten as follows: "A Group S-1 fire area is located more than three stories above the lowest  
470 level of fire department vehicle access."

471 [~~(11)~~ IFC, Chapter 9, Section 903.3.1.1 is amended by adding the following  
472 subsection: "903.3.1.1.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler  
473 system installed in accordance with NFPA 13 may not exceed a maximum concentration of  
474 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may  
475 not exceed 150 gallons."]

476 [~~(12)~~ IFC, Chapter 9, Section 903.3.1.2 is amended by adding the following  
477 subsection: "903.3.1.2.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler  
478 system installed in accordance with NFPA 13R may not exceed a maximum concentration of  
479 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may  
480 not exceed 150 gallons."]

481 [~~(13)~~ IFC, Chapter 9, Section 903.3.1.3 is amended by adding the following  
482 subsection: "903.3.1.3.1 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler  
483 system installed in accordance with NFPA 13D may not exceed a maximum concentration of  
484 38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may  
485 not exceed 150 gallons."]

486 [~~(14)~~ (9) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On  
487 line six, after the word "Code", add "and as amended in Utah's State Construction Code".

488 [~~(15)~~ (10) IFC, Chapter 9, Section 903.5 is amended to add the following subsection:  
489 "903.5.1 Tag and Information. A tag shall be attached to the riser indicating the date the  
490 antifreeze solution was tested. The tag shall also indicate the type and concentration of  
491 antifreeze solution by volume with which the system is filled, the name of the contractor that  
492 tested the antifreeze solution, the contractor's license number, and a warning to test the



493 concentration of the antifreeze solutions at yearly intervals."

494 ~~[(16)]~~ (11) IFC, Chapter 9, Section 904.11, Commercial cooking systems, is deleted  
495 and rewritten as follows: "The automatic fire extinguishing system for commercial cooking  
496 systems shall be of a type recognized for protection of commercial cooking equipment and  
497 exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance  
498 with UL300 and listed and labeled for the intended application. The system shall be installed  
499 in accordance with this code, its listing and the manufacturer's installation instructions. The  
500 exception in Section 904.11 is not deleted and shall remain as currently written in the IFC."

501 ~~[(17)]~~ (12) IFC, Chapter 9, Section ~~[904.11.3]~~ 904.12.3, Carbon dioxide systems, and  
502 Section ~~[904.11.3.1]~~ 904.12.3.1, Ventilation system, are deleted and rewritten as follows:

503 ~~[(a)]~~ "Existing automatic fire extinguishing systems used for commercial cooking.

504 Existing automatic fire extinguishing systems used for commercial cooking that use dry  
505 chemical are prohibited and shall be removed from service.<sup>[m]</sup>

506 ~~[(b)]~~<sup>[n]</sup> 904.12.3.1 UL300 listed and labeled existing wet chemical fire extinguishing  
507 system.

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

511 ~~[(18)]~~ (13) IFC, Chapter 9, Section ~~[904.11.4]~~ 904.12.4, Special provisions for  
512 automatic sprinkler systems, is amended to add the following subsection: "~~[904.11.4.2]~~  
513 904.12.4.2 Existing automatic fire sprinkler systems protecting commercial cooking  
514 equipment, hood, and exhaust systems that generate appreciable depth of cooking oils shall be  
515 replaced with a UL300 system that is listed and labeled for the intended application."

516 ~~[(19)]~~ (14) IFC, Chapter 9, Section ~~[904.11.6.2]~~ 906.12.6.2, Extinguishing system  
517 service, is amended to add the following: "Exception: Automatic fire extinguishing systems  
518 located in occupancies where usage is limited and less than six consecutive months may be  
519 serviced annually if the annual service is conducted immediately before the period of usage,  
520 and approval is received from the AHJ."

521 ~~[(20)]~~ (15) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open  
522 Parking Garages. Open parking garages shall be equipped with an approved Class I manual  
523 standpipe system when fire department access is not provided for firefighting operations to

524 within 150 feet of all portions of the open parking garage as measured from the approved fire  
525 department vehicle access. Class I manual standpipe shall be accessible throughout the parking  
526 garage such that all portions of the parking structure are protected within 150 feet of a hose  
527 connection.

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

530 [~~(21)~~] (16) IFC, Chapter 9, Section 905.8, Dry Standpipes, Exception is deleted and  
531 rewritten as follows: "Where subject to freezing conditions and approved by the fire code  
532 official."

533 [~~(22)~~] (17) IFC, Chapter 9, Section 905.11, Existing buildings, and IFC, Chapter 11,  
534 Section 1103.6, Standpipes, are deleted.

535 [~~(23)~~] (18) In IFC, Chapter 9, Section 906.1, Where Required, [~~the exception under~~  
536 ~~paragraph 1 is deleted and rewritten to read: "Exception: In new and existing Group A, B, and~~  
537 ~~E occupancies equipped with quick response sprinklers, portable fire extinguishers shall be~~  
538 ~~required only in locations specified in items 2 through 6.~~] insert an additional exception as  
539 follows:

540 "Exception: In new and existing Group E occupancies equipped with quick response  
541 sprinklers, portable fire extinguishers shall be required only in locations specified in items 2  
542 through 6."

543 [~~(24)~~] (19) IFC, Chapter 9, Section 907.2.3 Group E:

544 (a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system  
545 that [~~initiates~~] activates the occupant notification system in accordance with Section 907.5 and  
546 installed in accordance with Section 907.6, and with rules made by the Utah Fire Prevention  
547 Board in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, shall be  
548 installed in Group E occupancies."

549 (b) Exception 2, delete entirely.

550 [~~(b)~~] (c) Exception number [~~3~~] 4.2, on line five, delete the words, "emergency  
551 voice/alarm communication system" and replace with [~~"occupant notification system."~~] "fire  
552 alarm."

553 [~~(25)~~] (20) IFC, Chapter 9, 907.8, Inspection, testing, and maintenance, is amended to  
554 add the following sentences at the end of the section: "Increases in nuisance alarms shall

555 require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after  
556 sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."

557 ~~[(26)] (21) IFC, Chapter 9, Section [908.7] 915, Carbon Monoxide [Alarms] Detection,~~  
558 is deleted and rewritten as follows:

559 ~~["908.7 Carbon Monoxide Detection:"]~~

560 ~~[908.7.1 Groups R-1, R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be~~  
561 ~~installed on each habitable level of a dwelling unit or a sleeping unit in Groups R-1, R-2, R-3,~~  
562 ~~R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.]~~

563 ~~[908.7.1.1 If more than one carbon monoxide detector is required, the carbon~~  
564 ~~monoxide detectors shall be interconnected as required in IFC, Chapter 9, Section 907.2.11.3.]~~

565 ~~[908.7.1.2 In new construction, a carbon monoxide detector shall receive its primary~~  
566 ~~power as required under IFC, Chapter 9, Section 907.2.11.4.]~~

567 ~~[908.7.1.3 Upon completion of the installation, a carbon monoxide detector system~~  
568 ~~shall meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection~~  
569 ~~and Warning Equipment and UL 2075, Standard for Gas and Vapor Detectors and Sensors.]~~

570 "915. Carbon Monoxide Detection.

571 915.1 Where required.

572 Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning  
573 appliance or in a building that has an attached garage shall be equipped with single-station  
574 carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL  
575 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the  
576 manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed  
577 parking garage, ventilated in accordance with Section 404 of the International Mechanical  
578 Code, shall not be considered an attached garage. A minimum of one carbon monoxide alarm  
579 shall be installed on each habitable level.

580 915.2 Interconnection.

581 Where more than one carbon monoxide alarm is required to be installed within Group  
582 I-1, I-2, I-4, or R occupancies, the carbon monoxide alarm shall be interconnected in such a  
583 manner that the activation of one alarm will activate all of the alarms. Physical interconnection  
584 of carbon monoxide alarms shall not be required where listed wireless alarms are installed and  
585 all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all

586 bedrooms over background noise levels with all intervening doors closed.

587 915.3 Power source.

588 In new construction, required carbon monoxide alarms shall receive their primary  
589 power from the building wiring where such wiring is served from a commercial source and  
590 shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that  
591 are not equipped with battery backup shall be connected to an emergency electrical system.  
592 Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be  
593 permanent and without a disconnecting switch other than as required for overcurrent  
594 protection.

595 Exceptions.

596 1. Carbon monoxide alarms are not required to be equipped with battery backup where  
597 they are connected to an emergency electrical system.

598 2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where  
599 the alterations or repairs do not result in the removal of interior wall or ceiling finishes  
600 exposing the structure. Unless there is an attic, crawl space, or basement available that could  
601 provide access for hard wiring, without the removal of interior finishes.

602 ~~[908.7.2]~~ 915.4 Group E.

603 A carbon monoxide detection system shall be installed in new buildings that contain  
604 Group E occupancies in accordance with ~~[IFC, Chapter 9, Sections 908.7.2.1 through~~  
605 ~~908.7.2.6.]~~ this section. A carbon monoxide detection system shall be installed in existing  
606 buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section  
607 1103.9.

608 ~~[908.7.2.1]~~ 915.4.1 Where required.

609 In Group E occupancies, a carbon monoxide detection system shall be provided where a  
610 fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.

611 ~~[908.7.2.2]~~ 915.4.2 Detection equipment.

612 Each carbon monoxide detection system shall be installed in accordance with NFPA  
613 720 and the manufacturer's instructions, and be listed, for single station detectors, as complying  
614 with UL 2034, and for system detectors, as complying with UL 2075.

615 ~~[908.7.2.3 Locations. Each carbon monoxide detection system shall be installed in the~~  
616 ~~locations specified in NFPA 720.]~~

617 [908.7.2.4] 915.4.3 Combination detectors.

618 A combination carbon monoxide/smoke detector is an acceptable alternative to a  
619 carbon monoxide detection system if the combination carbon monoxide/smoke detector is  
620 listed in accordance with UL 2075 and UL 268.

621 [908.7.2.5] 915.4.4 Power source.

622 Each carbon monoxide detection system shall receive primary power from the building  
623 wiring if the wiring is served from a commercial source. If primary power is interrupted, each  
624 carbon monoxide detection system shall receive power from a battery. Wiring shall be  
625 permanent and without a disconnecting switch other than that required for over-current  
626 protection.

627 [908.7.2.6] 915.4.5 Maintenance.

628 Each carbon monoxide detection system shall be maintained in accordance with NFPA  
629 720. A carbon monoxide detection system that becomes inoperable or begins to produce  
630 end-of-life signals shall be replaced."

631 [~~(27) IFC Section 908.7.1 is renumbered to 908.7.3.~~]

632 Section 6. Section **15A-5-205** is amended to read:

633 **15A-5-205. Amendments and additions to IFC related to means of egress and**  
634 **special processes and uses.**

635 (1) In IFC, Chapter 10, Section 1008.2.1, Illumination level under normal power,  
636 delete exemption.

637 [~~(H)~~] (2) IFC, Chapter 10, Section [~~1008.1.9.6, Special locking arrangements in Group~~  
638 I-2, is amended as follows:]

639 [~~(a) The section title "Special locking arrangements in Group I-2." is rewritten to read~~  
640 ~~"Special locking arrangements in Groups I-1 and I-2."]~~

641 [~~(b) On line three, delete the word "Group", and add the words "Group I-1 and";]~~

642 [~~(c) After~~] 1010.1.9.6, Controlled egress doors in groups I-1 and I-2, after existing Item  
643 [7] 8 add Item [8] 9 as follows: "[8] 9. The secure area or unit with special egress locks shall  
644 be located at the level of exit discharge in Type V construction."

645 [~~(2)~~] (3) In IFC, Chapter 10, Section [~~1008.1.9.7]~~ 1010.1.9.7, Delayed egress locks,  
646 Item [7] 9 is added after the existing Item [6] 8 as follows: "[7] 9. The secure area or unit with  
647 delayed egress locks shall be located at the level of exit discharge in Type V construction."

648           ~~[(3)]~~ (4) In IFC, Chapter 10, Section ~~[B] 1009.7.2, Stair Treads and Risers, Exception~~  
649 5] ~~[BE] 1011.5.2, Riser height and tread depth, Exception 3~~ is deleted and replaced with the  
650 following: "[5] 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies,  
651 and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to  
652 individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8  
653 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum  
654 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder  
655 tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not  
656 more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread  
657 depth is less than 10 inches (254 mm)."

658           ~~[(4)]~~ (5) IFC, Chapter 10, Section ~~[1009.12 [B] 1009.15]~~ ~~[BE] 1011.11~~, Handrails, is  
659 amended to add the following exception: "[6] 5. In occupancies in Group R-3, as applicable in  
660 Section ~~[1012] 1014~~ and in occupancies in Group U, which are accessory to an occupancy in  
661 Group R-3, as applicable in Section ~~[1012] 1014~~, handrails shall be provided on at least one  
662 side of stairways consisting of four or more risers."

663           (6) IFC, Chapter 10, Section 1013.5, Internally illuminated exit signs, delete and  
664 rewrite the last sentence to read "Exit signs shall be illuminated at all times, including when the  
665 building is not fully occupied."

666           ~~[(5)]~~ (7) IFC, Chapter 10, Section ~~[1024] 1025~~, Luminous Egress Path Markings, is  
667 deleted.

668           (8) IFC, Chapter 10, Section 1029.14, Seat stability, delete Exemption 2 and renumber  
669 exemptions.

670           ~~[(6)]~~ (9) IFC, Chapter 10, Section ~~[1030.2.1] 1031.2.1~~, Security Devices and Egress  
671 Locks, is amended to add the following: On line three, after the word "fire", add the words "and  
672 building."

673           Section 7. Section **15A-5-205.5** is amended to read:

674           **15A-5-205.5. Amendments to Chapter 11 of IFC.**

675           (1) In IFC, Chapter 11, Section 1103.2 Emergency Responder Radio Coverage in  
676 Existing Buildings, is amended as follows: On line two after the title, the following is added:  
677 "When required by the fire code official".

678           (2) IFC, Chapter 11, Section ~~[1103.5, Sprinkler Systems, is amended to add the~~

679 following new subsection: "~~1103.5.3~~ 1103.5.1 Group A-2, is deleted and replaced with the  
680 following:

681 "1103.5.1 Group A-2. An automatic fire sprinkler system shall be provided throughout  
682 existing Group A-2 occupancies where indoor pyrotechnics are used."

683 (3) IFC, Chapter 11, Section 1103.6, Standpipes, is deleted.

684 (4) In IFC, Chapter 11, 1103.7, Fire Alarm Systems, is deleted and rewritten as  
685 follows: "1103.7, Fire Alarm Systems. The following shall have an approved fire alarm system  
686 installed in accordance with Utah Administrative Code Section R710-4:

687 1. a building with an occupant load of 300 or more persons that is owned or operated  
688 by the state;

689 2. a building with an occupant load of 300 or more persons that is owned or operated  
690 by an institution of higher education; and

691 3. a building with an occupant load of 50 or more persons that is owned or operated by  
692 a school district, private school, or charter school.

693 Exception: the requirements of this section do not apply to a building designated as an  
694 Institutional Group I (as defined in IFC 202) occupancy."

695 (5) IFC, Chapter 11, 1103.7.1 Group E, 1103.7.2 Group I-1, 1103.7.3 Group I-2,  
696 1103.7.4 Group I-3, 1103.7.5 Group R-1, 1103.7.5.1 Group R-1 Hotel and Motel Manual Fire  
697 Alarm System, 1103.7.5.1.1 Group R-1 Hotel and Motel Automatic Smoke Detection System,  
698 1103.7.5.2 Group R-1 Boarding and Rooming Houses Manual Fire Alarm System, 1103.7.5.2.1  
699 Group R-1 Boarding and Rooming Houses Automatic Smoke Detection System, 1103.7.6  
700 Group R-2 and 1103.7.7 Group R-4, are deleted.

701 (6) IFC, Chapter 11, Section 1103.9, Carbon Monoxide Alarms, is deleted and  
702 rewritten as follows:

703 "1103.9 Carbon Monoxide Detection.

704 [~~1103.9.1~~ Groups R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be  
705 installed on each habitable level of a dwelling unit or a sleeping unit in existing Groups R-2,  
706 R-3, R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.]

707 [~~1103.9.1.1~~ If more than one carbon monoxide detector is required, they shall be  
708 interconnected as required in IFC, Chapter 9, Section 907.2.11.3.]

709 [~~1103.9.1.2~~ In new construction, a carbon monoxide detector shall receive its primary

710 ~~power as required under IFC, Chapter 9, Section 907.2.11.4.]~~

711 ~~[1103.9.1.3 Upon completion of the installation, the carbon monoxide detector system~~  
712 ~~shall meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection~~  
713 ~~and Warning Equipment and UL 2034, Standard for Single and Multiple Carbon Monoxide~~  
714 ~~Alarms.]~~

715 ~~[1103.9.2 Group E. Carbon monoxide detection shall be installed in existing buildings~~  
716 ~~that contain Group E occupancies in accordance with IFC, Chapter 9, Sections 908.7.2.1~~  
717 ~~through 908.7.2.6."]~~

718 Existing Groups E, I-1, I-2, I-4, and R occupancies shall be equipped with carbon  
719 monoxide detection in accordance with Section 915."

720 Section 8. Section **15A-5-206** is amended to read:

721 **15A-5-206. Amendments and additions to IFC related to hazardous materials,**  
722 **explosives, fireworks, and flammable and combustible liquids.**

723 (1) For IFC, Hazardous Materials - General Provisions, Chapter 50, Table 5003.1.1(1),  
724 Maximum Allowable Quantity per Control Area of Hazardous Materials Posing a Physical  
725 Hazard, apply footnote d to Consumer Fireworks, Storage, Solid Pounds.

726 ~~[(1)]~~ (2) For IFC, Explosives and Fireworks, IFC, Chapter 56, Section 5601.3,  
727 Fireworks, Exception 4 is amended to add the following sentence at the end of the exception:  
728 "The use of fireworks for display and retail sales is allowed as set forth in Utah Code, Title 53,  
729 Chapter 7, Utah Fire Prevention and Safety Act, Sections [53-7-220](#) through [53-7-225](#); Utah  
730 Code, Title 11, Chapter 3, County and Municipal Fireworks Act; Utah Administrative Code,  
731 R710-2; and the State Fire Code."

732 ~~[(2)]~~ (3) For IFC, Chapter 57, Flammable and Combustible Liquids:

733 (a) IFC, Chapter 57, Section 5701.4, Permits, is amended to add the following at the  
734 end of the section: "The owner of an underground tank that is out of service for longer than one  
735 year shall receive a Temporary Closure Notice from the Department of Environmental Quality,  
736 and a copy shall be given to the AHJ."

737 (b) IFC, Chapter 57, Section 5706.1, General, is amended to add the following special  
738 operation: "8. Sites approved by the AHJ".

739 (c) IFC, Chapter 57, Section 5706.2, Storage and dispensing of flammable and  
740 combustible liquids on farms and construction sites, is amended to add the following: On line



741 five, after the words "borrow pits", add the words "and sites approved by the AHJ".

742 ~~[(3)]~~ (4) For IFC, Chapter 61, Liquefied Petroleum Gas:

743 (a) IFC, Chapter 61, Section 6101.2, Permits, is amended as follows: On line two, after  
744 the word "105.7", add "and the adopted LP Gas rules".

745 (b) IFC, Chapter 61, Section 6103.1, General, is deleted and rewritten as follows:  
746 "General. LP Gas equipment shall be installed in accordance with NFPA 54, NFPA 58, the  
747 adopted LP Gas rules, and the International Fuel Gas Code, except as otherwise provided in  
748 this chapter."

749 (c) Chapter 61, Section 6109.12, Location of storage outside of buildings, is amended  
750 as follows: In Table 6109.12, Doorway or opening to a building with two or more means of  
751 egress, with regard to quantities 720 or less and 721 -- 2,500, the currently stated "5" is deleted  
752 and replaced with "10".

753 (d) IFC, Chapter 61, Section 6109.15.1, Automated Cylinder Exchange Stations, is  
754 amended as follows: Item # 4 is deleted.

755 (e) IFC, Chapter 61, Section 6110.1, Temporarily out of service, is amended as  
756 follows: On line two, after the word "discontinued", add the words "for more than one year or  
757 longer as allowed by the AHJ,".

758 Section 9. Section **15A-5-207** is amended to read:

759 **15A-5-207. Amendments and additions to IFC related to existing buildings and**  
760 **referenced standards.**

761 [~~IFC, Chapter 80, Referenced Standards, is amended as follows:~~]

762 [~~(1) Under the heading NFPA - National Fire Protection Association, delete the~~  
763 ~~existing "Standard reference number" with regard to the edition and replace it with the~~  
764 ~~following:~~]

765 [~~(a) "NFPA, Standard 10, Portable Fire Extinguishers, 2010 edition";~~]

766 [~~(b) "NFPA, Standard 11, Low-, Medium- and High-expansion Foam, 2010 edition";~~]

767 [~~(c) "NFPA, Standard 12, Carbon Dioxide Extinguishing Systems, 2008 edition";~~]

768 [~~(d) "NFPA, Standard 12A, Halon 1301 Fire Extinguishing System, 2009 edition";~~]

769 [~~(e) "NFPA, Standard 13, Installation of Sprinkler Systems, 2010 edition";~~]

770 [~~(f) "NFPA, Standard 13D, Installation of Sprinkler Systems in One- and Two-family~~  
771 ~~Dwellings and Manufactured Homes, 2010 edition";~~]

772 [~~(g) "NFPA, Standard 13R, Installation of Sprinkler Systems in Residential~~  
773 ~~Occupancies up to and Including Four Stories in Height, 2010 edition";]~~  
774 [~~(h) "NFPA, Standard 14, Installation of Standpipe and Hose Systems, 2010 edition";]~~  
775 [~~(i) "NFPA, Standard 17, Dry Chemical Extinguishing Systems, 2009 edition";]~~  
776 [~~(j) "NFPA, Standard 17A, Wet Chemical Extinguishing Systems, 2009 edition";]~~  
777 [~~(k) "NFPA, Standard 20, Installation of Stationary Pumps for Fire Protection, 2010~~  
778 ~~edition";]~~  
779 [~~(l) "NFPA, Standard 22, Water Tanks for Private Fire Protection, 2008 edition";]~~  
780 [~~(m) "NFPA, Standard 24, Installation of Private Fire Service Mains and Their~~  
781 ~~Appurtenances, 2010 edition";]~~  
782 [~~(n) "NFPA, Standard 72, National Fire Alarm Code, 2010 edition," all "Referenced in~~  
783 ~~code section numbers" remain the same, except the exclusion of Table 508.1.5;]~~  
784 [~~(o) "NFPA, Standard 92B, Smoke Management Systems in Malls, Atria and Large~~  
785 ~~Spaces, 2009 edition";]~~  
786 [~~(p) "NFPA, Standard 101, Life Safety Code, 2009 edition";]~~  
787 [~~(q) "NFPA, Standard 110, Emergency and Standby Power Systems, 2010 edition";]~~  
788 [~~(r) "NFPA 720, Installation of Carbon Monoxide (CO) Detection and Warning~~  
789 ~~Equipment, 2009 edition";]~~  
790 [~~(s) "NFPA, Standard 750, Water Mist Fire Protection Systems, 2010 edition", and]~~  
791 [~~(t) "NFPA, Standard 1123, Fireworks Display, 2010 edition."]~~  
792 [(2) Under the heading UL -- Underwriters Laboratories, Inc., add the following:  
793 "UL2034, Standard for Single and Multiple Station Carbon Monoxide Alarms, 1998."  
794 IFC, Chapter 80, Referenced Standards, is amended as follows:  
795 Under the heading NFPA - National Fire Protection Association, add Standard  
796 reference: "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial  
797 Cooking Operations, 2011 edition."  
798 Section 10. Section **15A-5-302** is amended to read:  
799 **15A-5-302. Amendments and additions to NFPA related to National Fire Alarm**  
800 **Code.**  
801 For NFPA 72, National Fire Alarm Code, 2013 edition:  
802 (1) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the

803 following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for  
804 Fire Protection, [2010] 2013 edition."

805 (2) NFPA 72, Chapter 10, Section [10.4.1] 10.5.1, System Designer, Subsection  
806 [10.4.1.2(2)] 10.5.1.1.2(2), is deleted and rewritten as follows: "National Institute of  
807 Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

808 (3) NFPA 72, Chapter 10, Section [10.4.2] 10.5.2, System Installer, Subsection  
809 [10.4.2.2(2)] 10.5.2.2(2), is deleted and rewritten as follows: "National Institute of Certification  
810 in Engineering Technologies (NICET) fire alarm level II certified personnel."

811 (4) NFPA 72, Chapter 10, Section 10.5.3, Inspection, Testing, and Maintenance  
812 Personnel, Subsection 10.5.3.1, is deleted and rewritten as follows:

813 "Service personnel shall be qualified and experienced in the inspection, testing, and  
814 maintenance of fire alarm systems. Qualified personnel shall meet the certification  
815 requirements stated in rule made by the State Fire Prevention Board in accordance with Title  
816 63G, Chapter 3, Utah Administrative Rulemaking Act."

817 [(4)] (5) NFPA 72, Chapter 10, Section [10.10] 10.13, Fire Alarm Signal Deactivation,  
818 Subsection [10.10.2] 10.13.2, is amended to add the following sentence: "When approved by  
819 the AHJ, the audible notification appliances may be deactivated during the investigation mode  
820 to prevent unauthorized reentry into the building."

821 [(5) NFPA 72, Chapter 10, Section 10.15, Protection of Fire Alarm System, is deleted  
822 and rewritten as follows: "Automatic smoke detection shall be provided at the location of each  
823 fire alarm control unit(s), notification appliance circuit power extenders, and supervising  
824 station transmitting equipment to provide notification of fire at the location."]

825 [(6) In NFPA 72, Chapter 10, Section 10.15, a new Exception 1 is added as follows:  
826 "When ambient conditions prohibit installation of automatic smoke detection, automatic heat  
827 detection shall be permitted."]

828 [(7)] (6) In NFPA 72, Chapter 23, Section 23.8.5.9, Signal Initiation -- Fire Pump,  
829 Subsection 23.8.5.9.3 is added as follows: "Automatic fire pumps shall be supervised in  
830 accordance with NFPA 20, Standard for the Installation of Stationary Pumps for Fire  
831 Protection, and the AHJ."

832 [(8)] (7) NFPA 72, Chapter 26, Section 26.3.4, Indication of Central Station Service,  
833 Subsection 26.3.4.7 is amended as follows: On line two, after the word "notified", insert the

834 words "without delay".

835 ~~[(9) NFPA 72, Chapter 10, Section 10.4.3 Inspection, Testing, and Maintenance~~  
836 ~~Personnel, Subsection 10.4.3.1, is deleted and rewritten as follows: "Service personnel shall be~~  
837 ~~qualified and experienced in the inspection, testing, and maintenance of fire alarm systems.~~  
838 ~~Qualified personnel shall meet the certification requirements stated in Utah Administrative~~  
839 ~~Code, R710-11-3, Fire Alarm System Inspecting and Testing."]~~

840 Section 11. Section **15A-5-304** is enacted to read:

841 **15A-5-304. Amendments and additions to NFPA related to Automatic Fire**  
842 **Sprinklers Systems.**

843 (1) NFPA 13, Installation of Sprinkler Systems, 2013 edition.

844 (a) NFPA 13, Chapter 8, Section 15.22, System Subdivision, is deleted and rewritten as  
845 follows:

846 "8.15.22 System Subdivision - Floor/Zone Control Valves.

847 Individual floor/zone control valves shall be used at the riser at each floor for  
848 connections to piping serving floor areas in excess of 5,000 square feet."

849 (b) NFPA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Alarms, is amended by  
850 adding a new subsection as follows:

851 "8.17.1.1.1 Single Tenant Occupancies.

852 An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the  
853 interior of the building, in a normally occupied location, to alert the occupants of the fire  
854 sprinkler system activation."

855 (c) NFPA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Alarms, is amended by  
856 adding a new subsection as follows:

857 "8.17.1.1.2 Multi-Tenant Occupancies.

858 An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the  
859 interior of each tenant space, in a normally occupied location, to alert the occupants of the fire  
860 sprinkler system activation."

861 (d) NFPA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Alarms, is amended by  
862 adding a new subsection as follows:

863 "8.17.1.1.3 Exterior Waterflow Alarm.

864 An approved audible/visual waterflow alarm (horn/strobe) shall be provided on the

865 exterior of the building in a location approved by the AHJ."

866 (2) NFPA 13D, Installation of Sprinkler Systems in One- and Two-Family Dwellings  
867 and Manufactured Homes, 2013 edition.

868 (a) NFPA 13D, Chapter 7, Section 7.6, Alarms, is amended by adding a new  
869 subsection as follows:

870 "7.6.1 Exterior Waterflow Alarm.

871 When an alarm initiating device is included, an approved audible/visual waterflow  
872 alarm (horn/strobe) shall be provided on the exterior of the building in a location approved by  
873 the AHJ."

874 (b) NFPA 13D, Chapter 7, Section 7.6, Alarms, is amended by adding a new  
875 subsection as follows:

876 "7.6.2 Interior Alarm.

877 When an alarm initiating device is included, an interior fire alarm notification appliance  
878 is also required to sound throughout the dwelling. An approved audible sprinkler flow alarm to  
879 alert the occupants of the dwelling in a normally occupied location when the flow switch is  
880 activated must be provided."

881 (3) NFPA, Standard 13R, Installation of Sprinkler Systems in Residential Occupancies  
882 up to and Including Four Stories in Height, 2013 edition.

883 (a) NFPA 13R, Chapter 6, Section 6.8, Valves, is amended by adding a new subsection  
884 as follows:

885 "6.8.9 Floor/Zone Control Valves.

886 Individual floor/zone control valves shall be used at the riser at each floor for  
887 connections to piping serving floor areas in excess of 5,000 square feet."

888 (b) NFPA 13R, Chapter 6, Section 16, Alarms, is amended by adding a new subsection  
889 as follows:

890 "6.16.1.1 Local Waterflow Alarms.

891 An approved audible/visual waterflow alarm (horn/strobe) shall be provided in the  
892 interior of each residential unit/tenant space, in a normally occupied location, to alert the  
893 occupants of the fire sprinkler system activation."

894 (c) NFPA 13R, Chapter 6, Section 16, Alarms, is amended by adding a new subsection  
895 as follows:

896 "6.16.1.2 Exterior Waterflow Alarm.

897 An approved audible/visual waterflow alarm (horn/strobe) shall be provided on the  
898 exterior of the building in a location approved by the AHJ."

899 Section 12. Section **53-7-225** is amended to read:

900 **53-7-225. Times for sale and discharge of fireworks.**

901 (1) This section supercedes any other code provision regarding the sale or discharge of  
902 fireworks.

903 (2) A person may sell class C common state approved explosives in the state as  
904 follows:

905 (a) beginning on June 23 and ending on July 27;

906 (b) beginning on December 29 and ending on December 31; and

907 (c) two days before and on the Chinese New Year's eve.

908 (3) Except as provided in Subsection (5), a county or municipality may not prohibit any  
909 person from discharging class C common state approved explosives in the state as follows:

910 (a) between the hours of 11 a.m. and 11 p.m., except that on July 4 and July 24, the  
911 hours are 11 a.m. to midnight:

912 (i) beginning on July 1 and ending on July 7; and

913 (ii) beginning on July 21 and ending on July 27;

914 (b) (i) beginning at 11 a.m. on December 31 and ending at 1 a.m. on the following day;

915 or

916 (ii) if New Year's eve is on a Sunday and the local governmental jurisdiction  
917 determines to celebrate New Year's eve on the prior Saturday, then it is lawful to discharge  
918 Class C common state approved explosives on that prior Saturday; and

919 (c) beginning at 11 a.m. on the Chinese New Year's eve and ending at 1 a.m. on the  
920 following day.

921 (4) A person who violates the time restrictions stated in Subsection (3)(a), (b), or (c) is  
922 guilty of an infraction.

923 (5) A county or municipality may prohibit any person from discharging class C  
924 common state approved explosives:

925 (a) as provided in Subsection [15A-5-202.5\(1\)\(c\)](#)~~(c)~~(b); or

926 (b) in accordance with a municipal ordinance prohibiting the negligent discharge of

927 class C common state approved explosives.

927a **Ŝ→ Section 13. Effective date.**

927b **This bill takes effect on July 1, 2016. ←Ŝ**

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**Legislative Review Note**  
**Office of Legislative Research and General Counsel**