

1 **STATE FIRE CODE AMENDMENTS**

2 2016 GENERAL SESSION

3 STATE OF UTAH

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**LONG TITLE**

5 **General Description:**

6 This bill amends provisions related to the State Fire Code.

7 **Highlighted Provisions:**

8 This bill:

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- 10 ▶ incorporates the 2015 edition of the International Fire Code by reference, with
  - 11 amendments; and
  - 12 ▶ modifies fire code requirements related to:
    - 13 • a fire code official's authority to determine an emergency requirement;
    - 14 • solar photovoltaic systems;
    - 15 • residential and commercial automatic fire sprinkler systems;
    - 16 • carbon monoxide detection systems;
    - 17 • fire alarm systems;
    - 18 • water control valves and flow notification systems; and
    - 19 • hazardous materials.

20 **Money Appropriated in this Bill:**

21 None

22 **Other Special Clauses:**

23 None

24 **Utah Code Sections Affected:**

25 AMENDS:

26 **15A-5-103**, as last amended by Laws of Utah 2014, Chapter 189

27 **15A-5-202**, as last amended by Laws of Utah 2015, Chapter 158

28 **15A-5-202.5**, as last amended by Laws of Utah 2015, Chapters 158 and 352

29 **15A-5-203**, as last amended by Laws of Utah 2015, Chapter 158

30 **15A-5-204**, as last amended by Laws of Utah 2015, Chapter 185

31 **15A-5-205**, as last amended by Laws of Utah 2013, Chapter 199

32 **15A-5-205.5**, as last amended by Laws of Utah 2014, Chapter 74

33 **15A-5-206**, as last amended by Laws of Utah 2013, Chapter 199

34 **15A-5-207**, as last amended by Laws of Utah 2013, Chapter 199

35 **15A-5-302**, as last amended by Laws of Utah 2013, Chapter 199

36 **53-7-225**, as last amended by Laws of Utah 2013, Chapter 357

37 ENACTS:

38 **15A-5-304**, Utah Code Annotated 1953

39

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

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

42 **15A-5-103. Nationally recognized codes incorporated by reference.**

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

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

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

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

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

55 **15A-5-202. Amendments and additions to IFC related to administration, permits,  
56 definitions and general and emergency planning.**

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

58 (a) IFC, Chapter 1, Section 102.9, is [~~amended by adding the following immediately~~  
59 ~~before the period: "~~] deleted and rewritten as follows:

60 "102.9 Matters not provided for.

61 Requirements that are essential for the public safety of an existing or proposed activity,  
62 building or structure, or for the safety of the occupants thereof, which are not specifically  
63 provided for by this code, shall be determined by the fire code official on an emergency basis

64 if:

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

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

68 ~~[(2)]~~ 102.9.1 Limitation of emergency order.

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

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

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

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

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

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

82 (c) In IFC, Chapter 1, Section 108, a new Section 108.4, Notice of right to appeal, is  
83 added as follows: "At the time a fire code official makes an order, decision, or determination  
84 that relates to the application or interpretation of this chapter, the fire code official shall inform  
85 the person affected by the order, decision, or determination of the person's right to appeal under  
86 this section. Upon request, the fire code official shall provide a person affected by an order,  
87 decision, or determination that relates to the application or interpretation of this chapter a  
88 written notice that describes the person's right to appeal under this section."

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

92 "109.3 Notice of violation.

93 If the fire code official determines that a building, premises, vehicle, storage facility, or  
94 outdoor area is in violation of this code or other pertinent laws or ordinances, the fire code

95 official is authorized to prepare a written notice of violation that describes the conditions  
96 deemed unsafe and, absent immediate compliance, specifies a time for reinspection."

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

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

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

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

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

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

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

122 (g) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
123 Educational Group E, a new section is added as follows: "Child Care Centers. Areas used for  
124 Hourly Child Care Centers, as defined in Utah Administrative Code, R430-60, Child Care  
125 Center as defined in Utah Administrative Code, R430-100, or Out of School Time Programs,

126 as defined in Utah Administrative Code, R430-70, may be classified as accessory  
127 occupancies."

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

131 (i) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,  
132 Institutional Group I, Five or fewer persons receiving care is amended as follows: On line four  
133 after "International Residential Code" the rest of the section is deleted.

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

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

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

138 (iii) On line 10, after the words "Psychiatric hospitals", add the following to the list:  
139 "both intermediate nursing care and skilled nursing care facilities, ambulatory surgical centers  
140 with five or more operating rooms, and Type II assisted living facilities. Type II assisted living  
141 facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted living  
142 facilities with at least six and not more than 16 residents shall be classified as a Group I-1  
143 facility".

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

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

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

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

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

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

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

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

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

169 1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or

170 1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and

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

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

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

176 **15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.**

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

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

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

185 [(c)] (b) IFC, Chapter 3, Section 310.8, Hazardous and Environmental Conditions, is  
186 deleted and rewritten as follows: "When the fire code official determines that hazardous  
187 environmental conditions necessitate controlled use of any ignition source, including fireworks,

188 lighters, matches, sky lanterns, and smoking materials, any of the following may occur:

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

194 2. Except as provided in paragraph 3, if the hazardous environmental conditions exist  
195 in an unincorporated area, the state forester may prohibit the ignition or use of an ignition  
196 source in all or part of the areas described in paragraph 1 that are within the unincorporated  
197 area, after consulting with the county fire code official who has jurisdiction over that area.

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

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

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

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

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

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

214 403.10.2.1 College and university buildings, is deleted and replaced with the following:

215 "403.10.2.1 College and university buildings and fraternity and sorority houses.

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

218 (b) Group R-2 college and university buildings, including fraternity and sorority

219 houses, shall comply with Sections 403.10.2.1.1 and 403.10.2.1.2.

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

222 (i) "e. Secondary schools in Group E occupancies shall have an emergency evacuation  
223 drill for fire conducted at least every two months, to a total of four emergency evacuation drills  
224 during the nine-month school year. The first emergency evacuation drill for fire shall be  
225 conducted within 10 school days after the beginning of classes. The third emergency  
226 evacuation drill for fire, weather permitting, shall be conducted 10 school days after the  
227 beginning of the next calendar year. The second and fourth emergency evacuation drills may  
228 be substituted by a security or safety drill to include shelter in place, earthquake drill, or lock  
229 down for violence. If inclement weather causes a secondary school to miss the 10-day deadline  
230 for the third emergency evacuation drill for fire, the secondary school shall perform the third  
231 emergency evacuation drill for fire as soon as practicable after the missed deadline."

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

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

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

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

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

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

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

246 **15A-5-203. Amendments and additions to IFC related to fire safety, building, and**  
247 **site requirements.**

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

249 (a) In IFC, Chapter 5, a new Section 501.5, Access grade and fire flow, is added as

250 follows: "An authority having jurisdiction over a structure built in accordance with the  
251 requirements of the International Residential Code as adopted in the State Construction Code,  
252 may require an automatic fire sprinkler system for the structure only by ordinance and only if  
253 any of the following conditions exist:

254 (i) the structure:

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

257 (B) does not meet the requirements described in Utah Code, Subsection  
258 65A-8-203(3)(a) and Utah Administrative Code, R652-122-200, Minimum Standards for  
259 Wildland Fire Ordinance;

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

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

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

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

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

274 (b) In IFC, Chapter 5, Section 506.1, Where Required, is deleted and rewritten as  
275 follows: "Where access to or within a structure or an area is restricted because of secured  
276 openings or where immediate access is necessary for life-saving or fire-fighting purposes, the  
277 fire code official, after consultation with the building owner, may require a key box to be  
278 installed in an approved location. The key box shall contain keys to gain necessary access as  
279 required by the fire code official. For each fire jurisdiction that has at least one building with a  
280 required key box, the fire jurisdiction shall adopt an ordinance, resolution, or other operating

281 rule or policy that creates a process to ensure that each key to each key box is properly  
282 accounted for and secure."

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

287 (d) In IFC, Chapter 5, a new Section 507.1.2, Pre-existing subdivision lots, is added as  
288 follows "Total water supply requirements shall not exceed the fire flows described in Section  
289 501.5(iv) for the largest one- or two-family dwelling, protected by an automatic fire sprinkler  
290 system, on a subdivision lot platted before December 31, 1980, unless the municipality or  
291 county in which the lot is located provides the required fire flow capacity."

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

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

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

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

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

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

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

311 2. The centerline axis pathways shall be provided in both axes of the roof. Centerline

312 axis pathways shall run where the roof structure is capable of supporting the live load of fire  
313 fighters accessing the roof.

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

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

319 ~~[(c) In IFC, Chapter 6, Section 605.11.3.2, Residential Systems for One and Two~~  
320 ~~Family Dwellings, is deleted and rewritten as follows: "Access to residential systems for one~~  
321 ~~and two family dwellings shall be provided in accordance with Sections 605.11.3.2.1 through~~  
322 ~~605.11.3.2.4.]~~

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

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

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

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

333 2.1. A pathway six feet (1829 mm) or greater in width.

334 2.2. A three foot (914 mm) or greater in width pathway and bordering roof skylights or  
335 smoke and heat vents when required by Section 910.2.1 or Section 910.2.2 of this Code.

336 2.3. Smoke and heat vents designed for remote operation using devices that can be  
337 connected to the vent by mechanical, electrical, or any other suitable means, shall be protected  
338 as necessary to remain operable for the design period. Controls for remote operation shall be  
339 located in a control panel, clearly identified and located in an approved location."

340 ~~[(e)]~~ (f) In IFC, Chapter 6, Section ~~[607.4]~~ 607.7, Elevator Key Location, is deleted  
341 and rewritten as follows: "Firefighter service keys shall be kept in a "Supra-Stor-a-key"  
342 elevator key box or similar box with corresponding key system that is adjacent to the elevator

343 for immediate use by the fire department. The key box shall contain one key for each elevator,  
344 one key for lobby control, and any other keys necessary for emergency service. The elevator  
345 key box shall be accessed using a 6049 numbered key."

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

348 (3) For IFC, Chapter 7, Fire-Resistance-Rated Construction, IFC, Chapter 7, Section  
349 703.2, is amended to add the following: "Exception: In Group E Occupancies, where the  
350 corridor serves an occupant load greater than 30 and the building does not have an automatic  
351 fire sprinkler system installed, the door closers may be of the friction hold-open type on  
352 classrooms' doors with a rating of 20 minutes or less only."

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

354 **15A-5-204. Amendments and additions to IFC related to fire protection systems.**

355 For IFC, Fire Protection Systems:

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

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

366 901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided  
367 from the installed equipment to the elements of permanent construction.

368 901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided  
369 between all other installed equipment and appliances.

370 901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all  
371 installed equipment and appliances, to allow for inspection, service, repair or replacement  
372 without removing such elements of permanent construction or disabling the function of a  
373 required fire-resistance-rated assembly.

374 901.4.6.4 Automatic sprinkler system riser rooms shall be provided with a clear and  
375 unobstructed passageway to the riser room of not less than 36 inches, and openings into the  
376 room shall be clear and unobstructed, with doors swinging in the outward direction from the  
377 room and the opening providing a clear width of not less than 34 inches and a clear height of  
378 the door opening shall not be less than 80 inches.

379 901.4.6.5 Fire pump rooms shall be provided with a clear and unobstructed  
380 passageway to the fire pump room of not less than 72 inches, and openings into the room shall  
381 be clear, unobstructed and large enough to allow for the removal of the largest piece of  
382 equipment, with doors swinging in the outward direction from the room and the opening  
383 providing a clear width of not less than 68 inches and a clear height of the door opening shall  
384 not be less than 80 inches."

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

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

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

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

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

401 "903.2.8 Group R.

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

404 Exceptions:

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

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

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

415 903.2.8.1 Group R-4 Condition 2.

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

419 903.2.8.1.1 Attics used for living purposes, storage or fuel-fire equipment.

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

422 903.2.8.1.2 Attics not used for living purposes, storage or fuel-fired equipment.

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

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

427 2. Attics constructed of noncombustible materials.

428 3. Attics constructed of fire-retardant-treated wood framing complying with Section  
429 2303.2 of the International Building Code.

430 4. The automatic sprinkler system shall be extended to provide protection throughout  
431 the attic space.

432 ~~[(8) IFC, Chapter 9, Section 903.2.8, Group R, is amended to add a second exception~~  
433 ~~as follows: "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not~~  
434 ~~containing more than 16 residents, provided the building is equipped throughout with an~~  
435 ~~approved fire alarm system that is interconnected and receives its primary power from the~~

436 ~~building wiring and a commercial power system."]~~

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

441 ~~[(10)] (8) IFC, Chapter 9, Section 903.2.9, Group S-1, Subsection 2, is deleted and~~  
442 ~~rewritten as follows: "A Group S-1 fire area is located more than three stories above the lowest~~  
443 ~~level of fire department vehicle access."~~

444 ~~[(11) IFC, Chapter 9, Section 903.3.1.1 is amended by adding the following~~  
445 ~~subsection: "903.3.1.1.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler~~  
446 ~~system installed in accordance with NFPA 13 may not exceed a maximum concentration of~~  
447 ~~38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may~~  
448 ~~not exceed 150 gallons."]~~

449 ~~[(12) IFC, Chapter 9, Section 903.3.1.2 is amended by adding the following~~  
450 ~~subsection: "903.3.1.2.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler~~  
451 ~~system installed in accordance with NFPA 13R may not exceed a maximum concentration of~~  
452 ~~38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may~~  
453 ~~not exceed 150 gallons."]~~

454 ~~[(13) IFC, Chapter 9, Section 903.3.1.3 is amended by adding the following~~  
455 ~~subsection: "903.3.1.3.1 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler~~  
456 ~~system installed in accordance with NFPA 13D may not exceed a maximum concentration of~~  
457 ~~38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may~~  
458 ~~not exceed 150 gallons."]~~

459 ~~[(14)] (9) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On~~  
460 ~~line six, after the word "Code", add "and as amended in Utah's State Construction Code".~~

461 ~~[(15)] (10) IFC, Chapter 9, Section 903.5 is amended to add the following subsection:~~  
462 ~~"903.5.1 Tag and Information. A tag shall be attached to the riser indicating the date the~~  
463 ~~antifreeze solution was tested. The tag shall also indicate the type and concentration of~~  
464 ~~antifreeze solution by volume with which the system is filled, the name of the contractor that~~  
465 ~~tested the antifreeze solution, the contractor's license number, and a warning to test the~~  
466 ~~concentration of the antifreeze solutions at yearly intervals."~~

467           ~~[(16)]~~ (11) IFC, Chapter 9, Section 904.11, Commercial cooking systems, is deleted  
468 and rewritten as follows: "The automatic fire extinguishing system for commercial cooking  
469 systems shall be of a type recognized for protection of commercial cooking equipment and  
470 exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance  
471 with UL300 and listed and labeled for the intended application. The system shall be installed  
472 in accordance with this code, its listing and the manufacturer's installation instructions. The  
473 exception in Section 904.11 is not deleted and shall remain as currently written in the IFC."

474           ~~[(17)]~~ (12) IFC, Chapter 9, Section ~~[904.11.3]~~ 904.12.3, Carbon dioxide systems, and  
475 Section ~~[904.11.3.1]~~ 904.12.3.1, Ventilation system, are deleted and rewritten as follows:

476           ~~[(a)]~~ "Existing automatic fire extinguishing systems used for commercial cooking.  
477 Existing automatic fire extinguishing systems used for commercial cooking that use dry  
478 chemical are prohibited and shall be removed from service.<sup>[a]</sup>"

479           ~~[(b)–<sup>a</sup>]~~ 904.12.3.1 UL300 listed and labeled existing wet chemical fire extinguishing  
480 system.

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

484           ~~[(18)]~~ (13) IFC, Chapter 9, Section ~~[904.11.4]~~ 904.12.4, Special provisions for  
485 automatic sprinkler systems, is amended to add the following subsection: "~~[904.11.4.2]~~  
486 904.12.4.2 Existing automatic fire sprinkler systems protecting commercial cooking  
487 equipment, hood, and exhaust systems that generate appreciable depth of cooking oils shall be  
488 replaced with a UL300 system that is listed and labeled for the intended application."

489           ~~[(19)]~~ (14) IFC, Chapter 9, Section ~~[904.11.6.2]~~ 906.12.6.2, Extinguishing system  
490 service, is amended to add the following: "Exception: Automatic fire extinguishing systems  
491 located in occupancies where usage is limited and less than six consecutive months may be  
492 serviced annually if the annual service is conducted immediately before the period of usage,  
493 and approval is received from the AHJ."

494           ~~[(20)]~~ (15) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open  
495 Parking Garages. Open parking garages shall be equipped with an approved Class I manual  
496 standpipe system when fire department access is not provided for firefighting operations to  
497 within 150 feet of all portions of the open parking garage as measured from the approved fire

498 department vehicle access. Class I manual standpipe shall be accessible throughout the parking  
499 garage such that all portions of the parking structure are protected within 150 feet of a hose  
500 connection.

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

503 ~~[(21)]~~ (16) IFC, Chapter 9, Section 905.8, Dry Standpipes, Exception is deleted and  
504 rewritten as follows: "Where subject to freezing conditions and approved by the fire code  
505 official."

506 ~~[(22)]~~ (17) IFC, Chapter 9, Section 905.11, Existing buildings, and IFC, Chapter 11,  
507 Section 1103.6, Standpipes, are deleted.

508 ~~[(23)]~~ (18) In IFC, Chapter 9, Section 906.1, Where Required, ~~[the exception under~~  
509 ~~paragraph 1 is deleted and rewritten to read: "Exception: In new and existing Group A, B, and~~  
510 ~~E occupancies equipped with quick response sprinklers, portable fire extinguishers shall be~~  
511 ~~required only in locations specified in items 2 through 6.]~~ insert an additional exception as  
512 follows:

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

516 ~~[(24)]~~ (19) IFC, Chapter 9, Section 907.2.3 Group E:

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

522 (b) Exception 2, delete entirely.

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

526 ~~[(25)]~~ (20) IFC, Chapter 9, 907.8, Inspection, testing, and maintenance, is amended to  
527 add the following sentences at the end of the section: "Increases in nuisance alarms shall  
528 require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after

529 sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."  
530 ~~[(26)] (21) IFC, Chapter 9, Section [908.7] 915, Carbon Monoxide [Alarms] Detection,~~  
531 ~~is deleted and rewritten as follows:~~

532 ~~["908.7 Carbon Monoxide Detection.]~~

533 ~~[908.7.1 Groups R-1, R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be~~  
534 ~~installed on each habitable level of a dwelling unit or a sleeping unit in Groups R-1, R-2, R-3,~~  
535 ~~R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.]~~

536 ~~[908.7.1.1 If more than one carbon monoxide detector is required, the carbon~~  
537 ~~monoxide detectors shall be interconnected as required in IFC, Chapter 9, Section 907.2.11.3:]~~

538 ~~[908.7.1.2 In new construction, a carbon monoxide detector shall receive its primary~~  
539 ~~power as required under IFC, Chapter 9, Section 907.2.11.4.]~~

540 ~~[908.7.1.3 Upon completion of the installation, a carbon monoxide detector system~~  
541 ~~shall meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection~~  
542 ~~and Warning Equipment and UL 2075, Standard for Gas and Vapor Detectors and Sensors:]~~

543 915. Carbon Monoxide Detection.

544 915.1 Where required.

545 Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning  
546 appliance or in a building which has an attached garage shall be equipped with single-station  
547 carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL  
548 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the  
549 manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed  
550 parking garage ventilated in accordance with Section 404 of the International Mechanical Code  
551 shall not be considered an attached garage. A minimum of one carbon monoxide alarm shall  
552 be installed on each habitable level.

553 915.2 Interconnection.

554 Where more than one carbon monoxide alarm is required to be installed within Group  
555 I-1, I-2, I-4 or R occupancies, the carbon monoxide alarm shall be interconnected in such a  
556 manner that the activation of one alarm will activate all of the alarms. Physical interconnection  
557 of carbon monoxide alarms shall not be required where listed wireless alarms are installed and  
558 all alarms sound upon activation of one alarm. The alarm shall be clearly audible in all  
559 bedrooms over background noise levels with all intervening doors closed.

560 915.3 Power source.

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

568 Exceptions.

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

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

575 ~~[908.7.2]~~ 915.4 Group E.

576 A carbon monoxide detection system shall be installed in new buildings that contain  
577 Group E occupancies in accordance with ~~[IFC, Chapter 9, Sections 908.7.2.1 through~~  
578 ~~908.7.2.6.]~~ this section. A carbon monoxide detection system shall be installed in existing  
579 buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section  
580 1103.9.

581 ~~[908.7.2.1]~~ 915.4.1 Where required.

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

584 ~~[908.7.2.2]~~ 915.4.2 Detection equipment.

585 Each carbon monoxide detection system shall be installed in accordance with NFPA  
586 720 and the manufacturer's instructions, and be listed, for single station detectors, as comply  
587 with UL 2034, and for system detectors, as complying with UL 2075.

588 ~~[908.7.2.3 Locations. Each carbon monoxide detection system shall be installed in the~~  
589 ~~locations specified in NFPA 720.]~~

590 ~~[908.7.2.4]~~ 915.4.3 Combination detectors.

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

594 ~~[908.7.2.5]~~ 915.4.4 Power source.

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

600 ~~[908.7.2.6]~~ 915.4.5 Maintenance.

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

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

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

606 **15A-5-205. Amendments and additions to IFC related to means of egress and**  
607 **special processes and uses.**

608 (1) IN IFC, Chapter 10, Section 1008.2.1, Illumination level under normal power,  
609 delete exemption.

610 ~~[(1)] (2) IFC, Chapter 10, Section [1008.1.9.6, Special locking arrangements in Group~~  
611 ~~I-2, is amended as follows:]~~

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

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

615 ~~[(c) After] 1010.1.9.6, Controlled egress doors in groups I-1 and I-2, after existing Item~~  
616 ~~[7] 8 add Item [8] 9 as follows: "[8] 9. The secure area or unit with special egress locks shall~~  
617 ~~be located at the level of exit discharge in Type V construction."~~

618 ~~[(2)] (3) In IFC, Chapter 10, Section [1008.1.9.7] 1010.1.9.7, Delayed egress locks,~~  
619 ~~Item [7] 9 is added after the existing Item [6] 8 as follows: "[7] 9. The secure area or unit with~~  
620 ~~delayed egress locks shall be located at the level of exit discharge in Type V construction."~~

621 ~~[(3)] (4) In IFC, Chapter 10, Section [1009.7.2, Stair Treads and Risers, Exception~~

622 5) [BE] 1011.5.2, Riser height and tread depth, Exception 3 is deleted and replaced with the  
623 following: "[5] 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies,  
624 and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to  
625 individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8  
626 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum  
627 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder  
628 tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not  
629 more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread  
630 depth is less than 10 inches (254 mm)."

631 ~~[(4)]~~ (5) IFC, Chapter 10, Section ~~[1009.12 [B] 1009.15]~~ [BE] 1011.11, Handrails, is  
632 amended to add the following exception: "[6] 5. In occupancies in Group R-3, as applicable in  
633 Section ~~[1012]~~ 1014 and in occupancies in Group U, which are accessory to an occupancy in  
634 Group R-3, as applicable in Section ~~[1012]~~ 1014, handrails shall be provided on at least one  
635 side of stairways consisting of four or more risers."

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

639 ~~[(5)]~~ (7) IFC, Chapter 10, Section ~~[1024]~~ 1025, Luminous Egress Path Markings, is  
640 deleted.

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

643 ~~[(6)]~~ (9) IFC, Chapter 10, Section ~~[1030.2.1]~~ 1031.2.1, Security Devices and Egress  
644 Locks, is amended to add the following: On line three, after the word "fire", add the words "and  
645 building".

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

647 **15A-5-205.5. Amendments to Chapter 11 of IFC.**

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

651 (2) IFC, Chapter 11, Section ~~[1103.5, Sprinkler Systems, is amended to add the~~  
652 following new subsection: "1103.5.3] 1103.5.1 Group A-2, is deleted and replaced with the

653 following:

654 "1103.5.1 Group A-2. An automatic fire sprinkler system shall be provided throughout  
655 existing Group A-2 occupancies where indoor pyrotechnics are used."

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

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

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

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

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

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

668 (5) IFC, Chapter 11, 1103.7.1 Group E, 1103.7.2 Group I-1, 1103.7.3 Group I-2,  
669 1103.7.4 Group I-3, 1103.7.5 Group R-1, 1103.7.5.1 Group R-1 Hotel and Motel Manual Fire  
670 Alarm System, 1103.7.5.1.1 Group R-1 Hotel and Motel Automatic Smoke Detection System,  
671 1103.7.5.2 Group R-1 Boarding and Rooming Houses Manual Fire Alarm System, 1103.7.5.2.1  
672 Group R-1 Boarding and Rooming Houses Automatic Smoke Detection System, 1103.7.6  
673 Group R-2 and 1103.7.7 Group R-4, are deleted.

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

676 "1103.9 Carbon Monoxide Detection.

677 ~~[1103.9.1 Groups R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be~~  
678 ~~installed on each habitable level of a dwelling unit or a sleeping unit in existing Groups R-2,~~  
679 ~~R-3, R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.]~~

680 ~~[1103.9.1.1 If more than one carbon monoxide detector is required, they shall be~~  
681 ~~interconnected as required in IFC, Chapter 9, Section 907.2.11.3.]~~

682 ~~[1103.9.1.2 In new construction, a carbon monoxide detector shall receive its primary~~  
683 ~~power as required under IFC, Chapter 9, Section 907.2.11.4.]~~

684 ~~[1103.9.1.3 Upon completion of the installation, the carbon monoxide detector system~~  
685 ~~shall meet the requirements listed in NFPA 720, Installation of Carbon Monoxide Detection~~  
686 ~~and Warning Equipment and UL 2034, Standard for Single and Multiple Carbon Monoxide~~  
687 ~~Alarms.]~~

688 ~~[1103.9.2 Group E. Carbon monoxide detection shall be installed in existing buildings~~  
689 ~~that contain Group E occupancies in accordance with IFC, Chapter 9, Sections 908.7.2.1~~  
690 ~~through 908.7.2.6."]~~

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

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

694 **15A-5-206. Amendments and additions to IFC related to hazardous materials,**  
695 **explosives, fireworks, and flammable and combustible liquids.**

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

699 ~~(1)~~ (2) For IFC, Explosives and Fireworks, IFC, Chapter 56, Section 5601.3,  
700 Fireworks, Exception 4 is amended to add the following sentence at the end of the exception:  
701 "The use of fireworks for display and retail sales is allowed as set forth in Utah Code, Title 53,  
702 Chapter 7, Utah Fire Prevention and Safety Act, Sections 53-7-220 through 53-7-225; Utah  
703 Code, Title 11, Chapter 3, County and Municipal Fireworks Act; Utah Administrative Code,  
704 R710-2; and the State Fire Code."

705 ~~(2)~~ (3) For IFC, Chapter 57, Flammable and Combustible Liquids:

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

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

712 (c) IFC, Chapter 57, Section 5706.2, Storage and dispensing of flammable and  
713 combustible liquids on farms and construction sites, is amended to add the following: On line  
714 five, after the words "borrow pits", add the words "and sites approved by the AHJ".

715 ~~(3)~~ (4) For IFC, Chapter 61, Liquefied Petroleum Gas:

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

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

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

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

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

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

732 **15A-5-207. Amendments and additions to IFC related to existing buildings and**  
733 **referenced standards.**

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

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

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

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

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

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

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

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

745 [~~(g) "NFPA, Standard 13R, Installation of Sprinkler Systems in Residential~~

746 Occupancies up to and Including Four Stories in Height, 2010 edition";]

747 [(h) "NFPA, Standard 14, Installation of Standpipe and Hose Systems, 2010 edition";]

748 [(i) "NFPA, Standard 17, Dry Chemical Extinguishing Systems, 2009 edition";]

749 [(j) "NFPA, Standard 17A, Wet Chemical Extinguishing Systems, 2009 edition";]

750 [(k) "NFPA, Standard 20, Installation of Stationary Pumps for Fire Protection, 2010

751 edition";]

752 [(l) "NFPA, Standard 22, Water Tanks for Private Fire Protection, 2008 edition";]

753 [(m) "NFPA, Standard 24, Installation of Private Fire Service Mains and Their

754 Appurtenances, 2010 edition";]

755 [(n) "NFPA, Standard 72, National Fire Alarm Code, 2010 edition," all "Referenced in

756 code section numbers" remain the same, except the exclusion of Table 508.1.5;]

757 [(o) "NFPA, Standard 92B, Smoke Management Systems in Malls, Atria and Large

758 Spaces, 2009 edition";]

759 [(p) "NFPA, Standard 101, Life Safety Code, 2009 edition";]

760 [(q) "NFPA, Standard 110, Emergency and Standby Power Systems, 2010 edition";]

761 [(r) "NFPA 720, Installation of Carbon Monoxide (CO) Detection and Warning

762 Equipment, 2009 edition";]

763 [(s) "NFPA, Standard 750, Water Mist Fire Protection Systems, 2010 edition"; and]

764 [(t) "NFPA, Standard 1123, Fireworks Display, 2010 edition."]

765 [(2) Under the heading UL -- Underwriters Laboratories, Inc., add the following:

766 "UL2034, Standard for Single and Multiple Station Carbon Monoxide Alarms, 1998."]

767 IFC, Chapter 80, Referenced Standards, is amended as follows:

768 (1) Under the heading NFPA - National Fire Protection Association, add Standard

769 reference: "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial

770 Cooking Operations, 2011 edition."

771 Section 10. Section **15A-5-302** is amended to read:

772 **15A-5-302. Amendments and additions to NFPA related to National Fire Alarm**

773 **Code.**

774 For NFPA 72, National Fire Alarm Code, 2013 edition:

775 (1) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the

776 following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for

777 Fire Protection, [2010] 2013 edition."

778 (2) NFPA 72, Chapter 10, Section [10.4.1] 10.5.1, System Designer, Subsection  
779 [10.4.1.2(2)] 10.5.1.1.2(2), is deleted and rewritten as follows: "National Institute of  
780 Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

781 (3) NFPA 72, Chapter 10, Section [10.4.2] 10.5.2, System Installer, Subsection  
782 [10.4.2.2(2)] 10.5.2.2(2), is deleted and rewritten as follows: "National Institute of Certification  
783 in Engineering Technologies (NICET) fire alarm level II certified personnel."

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

786 "Service personnel shall be qualified and experienced in the inspection, testing, and  
787 maintenance of fire alarm systems. Qualified personnel shall meet the certification  
788 requirements stated in rule made by the State Fire Prevention Board in accordance with Title  
789 63G, Chapter 3, Utah Administrative Rulemaking Act."

790 [(4)] (5) NFPA 72, Chapter 10, Section [10.10] 10.13, Fire Alarm Signal Deactivation,  
791 Subsection [10.10.2] 10.13.2, is amended to add the following sentence: "When approved by  
792 the AHJ, the audible notification appliances may be deactivated during the investigation mode  
793 to prevent unauthorized reentry into the building."

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

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

801 [(7)] (6) In NFPA 72, Chapter 23, Section 23.8.5.9, Signal Initiation -- Fire Pump,  
802 Subsection 23.8.5.9.3 is added as follows: "Automatic fire pumps shall be supervised in  
803 accordance with NFPA 20, Standard for the Installation of Stationary Pumps for Fire  
804 Protection, and the AHJ."

805 [(8)] (7) NFPA 72, Chapter 26, Section 26.3.4, Indication of Central Station Service,  
806 Subsection 26.3.4.7 is amended as follows: On line two, after the word "notified", insert the  
807 words "without delay".

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

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

814 **15A-5-304. Amendments and additions to NFPA related to Automatic Fire**  
815 **Sprinklers Systems.**

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

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

819 "8.15.22 System Subdivision - Floor/Zone Control Valves.

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

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

824 "8.17.1.1.1 Single Tenant Occupancies.

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

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

830 "8.17.1.1.2 Multi-Tenant Occupancies.

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

834 (d) NPFA 13, Chapter 8, Section 8.17.1.1, Local Waterflow Aalarms, is amended by  
835 adding a new subsection as follows:

836 "8.17.1.1.3 Exterior Waterflow Alarm.

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

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

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

843 "7.6.1 Exterior Waterflow Alarm.

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

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

848 "7.6.2 Interior Alarm.

849 An interior fire alarm notification appliance is also required to sound throughout the  
850 dwelling. An approved audible sprinkler flow alarm to alert the occupants of the dwelling in a  
851 normally occupied location when the flow switch is activated must be provided."

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

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

856 "6.8.9 Floor/Zone Control Valves.

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

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

861 "6.16.1.1. Local Waterflow Alarms.

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

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

867 "6.16.1.2 Exterior Waterflow Alarm:

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

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

871 **53-7-225. Times for sale and discharge of fireworks.**

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

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

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

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

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

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

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

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

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

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

886 or

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

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

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

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

896 (a) as provided in Subsection 15A-5-202.5(1)~~(e)~~(b); or

897 (b) in accordance with a municipal ordinance prohibiting the negligent discharge of  
898 class C common state approved explosives.