

FIRE CODE AMENDMENTS

2019 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: James A. Dunnigan

Senate Sponsor: Curtis S. Bramble

LONG TITLE

General Description:

This bill amends provisions of the State Fire Code Act.

Highlighted Provisions:

This bill:

- ▶ adopts the 2018 edition of the International Fire Code, with amendments;
- ▶ adopts the 2016 edition of the National Fire Alarm and Signaling Code, with amendments; and
- ▶ adopts the National Fire Protection Association's 2016 edition for the Installation of Sprinkler Systems.

Money Appropriated in this Bill:

None

Other Special Clauses:

This bill provides a special effective date.

Utah Code Sections Affected:

AMENDS:

15A-5-103, as last amended by Laws of Utah 2016, Chapter 216

15A-5-202, as last amended by Laws of Utah 2016, Chapter 216

15A-5-202.5, as last amended by Laws of Utah 2018, Chapter 189

15A-5-203, as last amended by Laws of Utah 2016, Chapters 174, 174, and 216

15A-5-204, as last amended by Laws of Utah 2016, Chapter 216

15A-5-205, as last amended by Laws of Utah 2018, Chapter 158

15A-5-205.5, as last amended by Laws of Utah 2016, Chapter 216

30 **15A-5-206**, as last amended by Laws of Utah 2016, Chapter 216

31 **15A-5-302**, as last amended by Laws of Utah 2016, Chapter 216

32 **15A-5-304**, as enacted by Laws of Utah 2016, Chapter 216

33 REPEALS:

34 **15A-5-207**, as last amended by Laws of Utah 2016, Chapter 216

35

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

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

38 **15A-5-103. Nationally recognized codes incorporated by reference.**

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

40 (1) the International Fire Code, [~~2015~~] 2018 edition, excluding appendices, as issued
41 by the International Code Council, Inc., except as amended by Part 2, Statewide Amendments
42 and Additions to International Fire Code Incorporated as Part of State Fire Code;

43 (2) National Fire Protection Association, NFPA 96, Standard for Ventilation Control
44 and Fire Protection of Commercial Cooking Operations, [~~2011~~] 2017 edition, except as
45 amended by Part 3, Amendments and Additions to National Fire Protection Association
46 Incorporated as Part of State Fire Code; and

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

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

51 **15A-5-202. Amendments and additions to IFC related to administration, permits,
52 definitions, and general and emergency planning.**

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

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

55 "102.5 Application of residential code.

56 If a structure is designed and constructed in accordance with the International
57 Residential Code, the provisions of this code apply only as follows:

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

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

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

64 (b) IFC, Chapter 1, Section 102.9, is deleted and rewritten as follows:

65 "102.9 Matters not provided for.

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

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

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

73 102.9.1 Limitation of emergency order.

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

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

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

79 101.9.2 Right to appeal emergency order.

80 If the emergency order issued under this section will result in the continued
81 infringement or impairment of any legal right or interest of any party, the party shall have a
82 right to appeal the fire code official's order in accordance with IFC, Chapter 1, Section [~~108~~]
83 109."

84 (c) IFC, Chapter 1, Section [~~105.6.17~~] 105.6.16, Flammable and combustible liquids, is
85 amended to add the following section: "12. The owner of an underground tank that is out of

86 service for longer than one year shall receive a Temporary Closure Notice from the Department
87 of Environmental Quality and a copy shall be given to the AHJ."

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

95 ~~[(e)]~~ (d) A new IFC, Chapter 1, Section ~~[108.1.1]~~ 109.1.1, Application of residential
96 code, is added as follows:

97 ~~"[108.1.1]~~ 109.1.1 Application of residential code.

98 For development regulated by a local jurisdiction's land use authority, the fire code
99 official's interpretation of this code is subject to the advisory opinion process described in Utah
100 Code, Section 13-43-205, and to a land use appeal authority appointed under Utah Code,
101 Section 10-9a-701 or 17-27a-701."

102 (e) In IFC, Chapter 1, Section 109, a new Section 109.4, Notice of right to appeal, is
103 added as follows: "At the time a fire code official makes an order, decision, or determination
104 that relates to the application or interpretation of this chapter, the fire code official shall inform
105 the person affected by the order, decision, or determination of the person's right to appeal under
106 this section. Upon request, the fire code official shall provide a person affected by an order,
107 decision, or determination that relates to the application or interpretation of this chapter a
108 written notice that describes the person's right to appeal under this section."

109 (f) IFC, Chapter 1, Section ~~[109.3]~~ 110.3, Notice of violation, is deleted and rewritten
110 as follows:

111 ~~"[109.3]~~ 110.3 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.^[4] See Utah Administrative Code, R432-13, Freestanding Ambulatory Surgical Center
122 Construction Rule."

123 (b) IFC, Chapter 2, Section 202, General Definitions, the following definition is added
124 for Assisted Living Facility. "ASSISTED LIVING FACILITY. See Residential
125 Treatment/Support Assisted Living Facility, Type I Assisted Living Facility, and Type II
126 Assisted Living Facility."

127 [~~(b)~~] (c) IFC, Chapter 2, Section 202, General Definitions, FOSTER CARE
128 FACILITIES is amended as follows: [~~the~~] The word "Foster" is changed to the word "Child."

129 [~~(c)~~] (d) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~]
130 OCCUPANCY CLASSIFICATION, Educational Group E, [~~Day~~] Group E, day care facilities,
131 is amended as follows:

132 (i) On line three delete the word "five" and replace it with the word "four"[:]; and

133 (ii) On line four after the word "supervision" add the words "child care centers."

134 [~~(d)~~] (e) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~]
135 OCCUPANCY CLASSIFICATION, Educational Group E, Five or fewer children, is amended
136 as follows: [~~On line one the~~] The word "five" is deleted and replaced with the word "four" in
137 both places.

138 [~~(e)~~] (f) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~]
139 OCCUPANCY CLASSIFICATION, Educational Group E, Five or fewer children in a dwelling
140 unit, [~~the~~] is amended as follows: The word "five" is deleted and replaced with the word "four"
141 in both places.

142 ~~[(f)]~~ (g) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~
 143 OCCUPANCY CLASSIFICATION, Educational Group E, a new section is added as follows:
 144 "Child [~~Day Care -- Residential Certificate or a Family License~~] day care -- residential child
 145 care certificate or a license. Areas used for child day care purposes with a [~~Residential~~
 146 ~~Certificate~~] residential child care certificate, as described in Utah Administrative Code,
 147 R430-50, Residential Certificate Child Care, or a [~~Family License~~] residential child care
 148 license, as [~~defined~~] described in Utah Administrative Code, R430-90, Licensed Family Child
 149 Care, may be located in a Group R-2 or R-3 occupancy as provided in Residential Group R-3,
 150 or shall comply with the International Residential Code in accordance with Section R101.2."

151 ~~[(g)]~~ (h) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~
 152 OCCUPANCY CLASSIFICATION, Educational Group E, a new section is added as follows:
 153 [~~"Child Care Centers. Areas used for Hourly Child Care Centers, as defined in Utah~~
 154 ~~Administrative Code, R430-60, Child Care Center as defined in Utah Administrative Code,~~
 155 ~~R430-100, or Out of School Time Programs, as defined in Utah Administrative Code,~~
 156 ~~R430-70, may be classified as accessory occupancies."] "Child care centers. Each of the
 157 following areas may be classified as accessory occupancies:~~

- 158 1. Hourly child care centers, as described in Utah Administrative Code, R381-60,
 159 Hourly Child Care Centers;
- 160 2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care
 161 Centers; and
- 162 3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70,
 163 Out of School Time Child Care Programs."

164 ~~[(h)]~~ (i) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification;~~
 165 ~~Institutional Group I;~~] OCCUPANCY CLASSIFICATION, Institutional Group I-1, is amended
 166 as follows: Insert "Type I" in front of the words "Assisted living facilities".

167 ~~[(i)]~~ (j) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification;~~
 168 ~~Institutional Group I;~~] OCCUPANCY CLASSIFICATION, Institutional Group I-1, Five or
 169 fewer persons receiving custodial care is amended as follows: On line four after "International

170 Residential Code" the rest of the section is deleted.

171 ~~[(j)]~~ (k) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification;~~
172 ~~Institutional Group I;~~] OCCUPANCY CLASSIFICATION, Institutional Group I-2, is amended
173 as follows:

- 174 (i) On line three delete the word "five" and insert the word "three"[-:];
- 175 (ii) On line six the word "foster" is deleted and replaced with the word "child"[-:]; and
- 176 (iii) On line 10, after the words "Psychiatric hospitals", add the following to the list:
177 "both intermediate nursing care and skilled nursing care facilities, ambulatory surgical centers
178 with five or more operating rooms, and Type II assisted living facilities. Type II assisted living
179 facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted living
180 facilities with at least six and not more than 16 residents shall be classified as a Group I-1
181 facility".

182 ~~[(k)]~~ (l) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification;~~
183 ~~Institutional Group I;~~] OCCUPANCY CLASSIFICATION, Institutional Group I-4, [~~Day~~] day
184 care facilities, Classification as Group E, is amended as follows:

- 185 (i) On line two delete the word "five" and replace it with the word "four"[-:]; and
- 186 (ii) On line three delete the words "2 1/2 years or less of age" and replace with the
187 words "under the age of two".

188 ~~[(h)]~~ (m) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification;~~
189 ~~Institutional Group Care I;~~] OCCUPANCY CLASSIFICATION, Institutional Group I-4, [~~Day~~]
190 day care facilities, Five or fewer occupants receiving care in a dwelling unit, is amended as
191 follows: On lines one and [~~two~~] three the word "five" is deleted and replaced with the word
192 "four".

193 ~~[(m)]~~ (n) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification]~~
194 OCCUPANCY CLASSIFICATION, Residential Group R-3, the words "and single family
195 dwellings complying with the IRC" are added after the word "Residential Group R-3
196 occupancies".

197 ~~[(n)]~~ (o) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification]~~

198 OCCUPANCY CLASSIFICATION, Residential Group R-3, Care facilities within a dwelling,
199 is amended as follows: On line three after the word "dwelling" insert "other than child care".

200 ~~[(o)]~~ (p) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~]

201 OCCUPANCY CLASSIFICATION, Residential Group R-3, a new section is added as follows:
202 "Child Care. Areas used for child care purposes may be located in a residential dwelling unit
203 when all of the following conditions are met:

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

206 2. Use is approved by the [~~Utah~~] Department of Health under the authority of [~~the~~]
207 Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following
208 categories:

209 1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or

210 1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and

211 [~~3:~~] 1.3 Compliance with all zoning regulations of the local regulator."

212 ~~[(p)]~~ (q) IFC, Chapter 2, Section 202, General Definitions, RECORD DRAWINGS,
213 [~~the definition for "RECORD DRAWINGS" is modified by deleting~~] is amended as follows:
214 Delete the words "a fire alarm system" and [~~replacing~~] replace them with "any fire protection
215 system".

216 (r) IFC, Chapter 2, Section 202, General Definitions, the following definition is added
217 for Residential Treatment/Support Assisted Living Facility. "RESIDENTIAL
218 TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential facility that provides
219 a group living environment for four or more residents licensed by the Department of Human
220 Services, and provides a protected living arrangement for ambulatory, non-restrained persons
221 who are capable of achieving mobility sufficient to exit the facility without the physical
222 assistance of another person."

223 (s) IFC, Chapter 2, Section 202, General Definitions, the following definition is added
224 for Type I Assisted Living Facility. "TYPE I ASSISTED LIVING FACILITY. A residential
225 facility licensed by the Department of Health that provides a protected living arrangement,

226 assistance with activities of daily living and social care to two or more ambulatory,
227 non-restrained persons who are capable of mobility sufficient to exit the facility without the
228 assistance of another person. Subcategories are:

229 Limited Capacity: two to five residents;

230 Small: six to sixteen residents; and

231 Large: over sixteen residents."

232 (t) IFC, Chapter 2, Section 202, General Definitions, the following definition is added
233 for Type II Assisted Living Facility. "TYPE II ASSISTED LIVING FACILITY. A residential
234 facility licensed by the Department of Health that provides an array of coordinated supportive
235 personal and health care services to two or more residents who are:

236 A. Physically disabled but able to direct his or her own care; or

237 B. Cognitively impaired or physically disabled but able to evacuate from the facility, or
238 to a zone or area of safety, with the physical assistance of one person. Subcategories are:

239 Limited Capacity: two to five residents;

240 Small: six to sixteen residents; and

241 Large: over sixteen residents."

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

243 **15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.**

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

245 (a) IFC, Chapter 3, Section 304.1.2, Vegetation, is amended as follows: Delete line six
246 and replace it with: "[~~the~~] Utah Administrative Code, [~~R652-122-200~~] R652-122-1300,

247 Minimum Standards for County Wildland Fire Ordinance".

248 (b) IFC, Chapter 3, Section 310.8, Hazardous [~~and Environmental Conditions~~]
249 environmental conditions, is deleted and rewritten as follows: "1. When the fire code official
250 determines that existing or historical hazardous environmental conditions necessitate controlled
251 use of any ignition source, including fireworks, lighters, matches, sky lanterns, and smoking
252 materials, any of the following may occur:

253 1.1. If the existing or historical hazardous environmental conditions exist in a

254 municipality, the legislative body of the municipality may prohibit the ignition or use of an
255 ignition source in:

256 1.1.1. mountainous, brush-covered, forest-covered, or dry grass-covered areas;

257 1.1.2. within 200 feet of waterways, trails, canyons, washes, ravines, or similar areas;

258 1.1.3. the wildland urban interface area, which means the line, area, or zone where
259 structures or other human development meet or intermingle with undeveloped wildland or land
260 being used for an agricultural purpose; or

261 1.1.4. a limited area outside the hazardous areas described in this paragraph 1.1 to
262 facilitate a readily identifiable closed area, in accordance with paragraph 2.

263 1.2. If the existing or historical hazardous environmental conditions exist in an
264 unincorporated area, the state forester may prohibit the ignition or use of an ignition source in
265 all or part of the areas described in paragraph 1.1 that are within the unincorporated area, after
266 consulting with the county fire code official who has jurisdiction over that area.

267 1.3. If the existing or historical hazardous environmental conditions exist in a metro
268 township created under Title 10, Chapter 2a, Part 4, Incorporation of Metro Townships and
269 Unincorporated Islands in a County of the First Class on and after May 12, 2015, the metro
270 township legislative body may prohibit the ignition or use of an ignition source in all or part of
271 the areas described in paragraph 1.1 that are within the township.

272 2. If a municipal legislative body, the state forester, or a metro township legislative
273 body closes an area to the discharge of fireworks under paragraph 1, the legislative body or
274 state forester shall:

275 2.1. designate the closed area along readily identifiable features like major roadways,
276 waterways, or geographic features;

277 2.2. ensure that the boundary of the designated closed area is as close as is practical to
278 the defined hazardous area, provided that the closed area may include areas outside of the
279 hazardous area to facilitate a readily identifiable line; and

280 2.3. identify the closed area through a written description or map that is readily
281 available to the public.

282 3. A municipal legislative body, the state forester, or a metro township legislative body
283 may close a defined area to the discharge of fireworks due to a historical hazardous
284 environmental condition under paragraph 1 if the legislative body or state forester:

285 3.1. makes a finding that the historical hazardous environmental condition has existed
286 in the defined area before July 1 of at least two of the preceding five years;

287 3.2. produces a map indicating the boundaries, in accordance with paragraph 2, of the
288 defined area described; and

289 3.3. before May 1 of each year the defined area is closed, provides the map described
290 in paragraph 3.2 to the county in which the defined area is located.

291 4. A municipal legislative body, the state forester, or a metro township legislative body
292 may not close an area to the discharge of fireworks due to a historical hazardous environmental
293 condition unless the legislative body or state forester provides a map, in accordance with
294 paragraph 3."

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

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

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

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

304 (a) IFC, Chapter 4, Section 403.10.2.1, College and university buildings, is deleted and
305 replaced with the following:

306 "403.10.2.1 College and university buildings and fraternity and sorority houses.

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

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

310 houses, shall comply with Sections 403.10.2.1.1 and 403.10.2.1.2."

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

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

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

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

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

331 (B) The rooms classified as assembly shall have fire safety floor plans as required in
332 Subsection 404.2.2(4) posted.

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

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

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

337 **15A-5-203. Amendments and additions to IFC related to fire safety, building, and**

338 **site requirements.**

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

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

345 (i) the structure:

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

348 (B) does not meet the requirements described in Utah Code, Subsection
349 [65A-8-203\(4\)\(a\)](#) and Utah Administrative Code, [~~R652-122-200~~] R652-122-1300, Minimum
350 Standards for County Wildland Fire Ordinance;

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

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

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

358 (v) the total floor area of all floor levels within the exterior walls of the dwelling unit is
359 double the average of the total floor area of all floor levels of unsprinkled homes in the
360 subdivision that are no larger than 10,000 square feet.^[a]

361 (vi) Exception: A single family dwelling does not require a fire sprinkler system if the
362 dwelling:

363 (A) is located outside the wildland urban interface;

364 (B) is built in a one-lot subdivision; and

365 (C) has 50 feet of defensible space on all sides that limits the propensity of fire

366 spreading from the dwelling to another property."

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

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

380 (d) In IFC, Chapter 5, a new Section 507.1.2, Pre-existing subdivision lots, is added as
381 follows:

382 "507.1.2 Pre-existing subdivision lots.

383 The requirements for a pre-existing subdivision lot shall not exceed the requirements
384 [~~shall not exceed the fire flows~~] described in Section 501.5."

385 (e) In IFC, Chapter 5, Section 510.1, Emergency [~~Responder Radio Coverage in New~~
386 ~~Buildings~~] responder radio coverage in new buildings, is amended by adding: "When required
387 by the fire code official," at the beginning of the first paragraph.

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

389 [~~(a) Delete the section title "605.11.1.2 Solar photovoltaic systems for Group R-3." and~~
390 ~~replace with the section title "605.11.1.2 Solar photovoltaic systems for Group R-3 and~~
391 ~~buildings constructed in accordance with IRC."~~]

392 [~~(b) Section 605.11.1.2, Solar photovoltaic systems for Group R-3, Exception, is~~
393 ~~deleted and rewritten as follows: "Exception: Reduction in pathways and clear access width~~

394 shall be permitted where shown that a rational approach has been used and that the reductions
395 are warranted, and approved by the fire code official."]

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

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

402 [1. ~~The pathway shall be over areas capable of supporting the live load of fire fighters~~
403 ~~accessing the roof.]~~

404 [2. ~~The centerline axis pathways shall be provided in both axes of the roof. Centerline~~
405 ~~axis pathways shall run where the roof structure is capable of supporting the live load of fire~~
406 ~~fighters accessing the roof.]~~

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

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

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

415 [1. ~~Arrays shall be no greater than 150 feet (45.720 mm) by 150 feet (45.720 mm) in~~
416 ~~distance in either axis in order to create opportunities for fire department smoke ventilation~~
417 ~~operations:]~~

418 [2. ~~Smoke ventilation options between array sections shall be one of the following:]~~

419 [2.1. ~~A pathway six feet (1829 mm) or greater in width.]~~

420 [2.2. ~~A three foot (914 mm) or greater in width pathway and bordering roof skylights~~
421 ~~or smoke and heat vents when required by Section 910.2.1 or Section 910.2.2 of this Code.]~~

422 ~~[2.3. Smoke and heat vents designed for remote operation using devices that can be~~
423 ~~connected to the vent by mechanical, electrical, or any other suitable means, shall be protected~~
424 ~~as necessary to remain operable for the design period. Controls for remote operation shall be~~
425 ~~located in a control panel, clearly identified and located in an approved location.]~~

426 ~~[(f)]~~ (a) In IFC, Chapter 6, Section ~~[607.7]~~ 606.7, Elevator ~~[Key Location]~~ key
427 location, is deleted and rewritten as follows: "Firefighter service keys shall be kept in a
428 "Supra-Stor-a-key" elevator key box or similar box with corresponding key system that is
429 adjacent to the elevator for immediate use by the fire department. The key box shall contain
430 one key for each elevator, one key for lobby control, and any other keys necessary for
431 emergency service. The elevator key box shall be accessed using a 6049 numbered key."

432 ~~[(g)]~~ (b) In IFC, Chapter 6, Section ~~[609.1]~~ 607.1, General, is amended as follows: On
433 line three, after the word "Code", add the words "and NFPA 96".

434 (3) For IFC, Chapter 7,~~[Fire-Resistance-Rated Construction]~~ Fire and Smoke
435 Protection Features, IFC, Chapter 7, Section ~~[703.2]~~ 705.2, is amended to add the following:
436 "Exception: In Group E Occupancies, where the corridor serves an occupant load greater than
437 30 and the building does not have an automatic fire sprinkler system installed, the door closers
438 may be of the friction hold-open type on classrooms' doors with a rating of 20 minutes or less
439 only."

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

441 **15A-5-204. Amendments and additions to IFC related to fire protection and life**
442 **safety systems.**

443 For IFC, Chapter 9, Fire Protection and Life Safety Systems:

444 (1) IFC, Chapter 9, Section 901.2, Construction ~~[Documents]~~ documents, is amended
445 to add the following at the end of the section: "The code official has the authority to request
446 record drawings ("as built") to verify any modifications to the previously approved
447 construction documents."

448 (2) IFC, Chapter 9, Section 901.4.6, Pump and ~~[Riser Room Size]~~ riser room size, is
449 deleted and replaced with the following: "Pump and Riser Room Size. Fire pump and

450 automatic sprinkler system riser rooms shall be designed with adequate space for all installed
451 equipment necessary for the installation and to provide sufficient working space around the
452 stationary equipment. Clearances around equipment shall be in accordance with manufacturer
453 requirements and not less than the following minimum elements:

454 901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided
455 from the installed equipment to the elements of permanent construction.

456 901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided
457 between all other installed equipment and appliances.

458 901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all
459 installed equipment and appliances, to allow for inspection, service, repair or replacement
460 without removing such elements of permanent construction or disabling the function of a
461 required fire-resistance-rated assembly.

462 901.4.6.4 Automatic sprinkler system riser rooms shall be provided with a clear and
463 unobstructed passageway to the riser room of not less than 36 inches, and openings into the
464 room shall be clear and unobstructed, with doors swinging in the outward direction from the
465 room and the opening providing a clear width of not less than 34 inches and a clear height of
466 the door opening shall not be less than 80 inches.

467 901.4.6.5 Fire pump rooms shall be provided with a clear and unobstructed
468 passageway to the fire pump room of not less than 72 inches, and openings into the room shall
469 be clear, unobstructed and large enough to allow for the removal of the largest piece of
470 equipment, with doors swinging in the outward direction from the room and the opening
471 providing a clear width of not less than 68 inches and a clear height of the door opening shall
472 not be less than 80 inches."

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

476 (4) IFC, Chapter 9, Section 903.2.2, Ambulatory [~~Health Care Facilities~~] care facilities,
477 is amended as follows: On line two delete the words [~~"all fire areas floor"~~] "entire floor" and

478 replace with the word [~~"buildings"~~] "building" and delete the last paragraph.

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

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

485 (7) IFC, Chapter 9, Section 903.2.8 Group R, including all subsections, is deleted and
486 rewritten as follows:

487 "903.2.8 Group R.

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

490 Exceptions:

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

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

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

501 [~~903.2.8.1 Group R-4 Condition 2:~~]

502 [~~An automatic sprinkler system installed in accordance with Section 903.3.1.2 shall be~~
503 ~~permitted in Group R-4 Condition 2 occupancies. Attics shall be protected in accordance with~~
504 ~~Section 903.2.8.1.1 or 903.2.8.1.2.]~~

505 [~~903.2.8.1.1 Attics used for living purposes, storage, or fuel-fired equipment.]~~

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

508 [903.2.8.1.2 Attics not used for living purposes, storage, or fuel-fired equipment.]

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

511 [1. Attics protected throughout by a heat detector system arranged to activate the
512 building fire alarm system in accordance with Section 907.2.10.]

513 [2. Attics constructed of noncombustible materials.]

514 [3. Attics constructed of fire-retardant-treated wood framing complying with Section
515 2303.2 of the International Building Code.]

516 [4. The automatic sprinkler system shall be extended to provide protection throughout
517 the attic space."]

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

521 (9) IFC, Chapter 9, Section 903.3.1.2.3, Attics, is amended by adding the following:
522 "Exception: Sprinkler protection in attics is not required in buildings that are not required to be
523 sprinklered by another section of this code."

524 [(9)] (10) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On
525 line six, after the word "Code", add "and as amended in [Utah's] the State Construction Code".

526 [(10)] (11) IFC, Chapter 9, Section 903.5, Testing and maintenance, is amended to add
527 the following subsection: "903.5.1 Tag and Information. A tag shall be attached to the riser
528 indicating the date the antifreeze solution was tested. The tag shall also indicate the type and
529 concentration of antifreeze solution by volume with which the system is filled, the name of the
530 contractor that tested the antifreeze solution, the contractor's license number, and a warning to
531 test the concentration of the antifreeze solutions at yearly intervals."

532 [(11)] (12) IFC, Chapter 9, Section [904.11] 904.12, Commercial cooking systems, is
533 deleted and rewritten as follows: "The automatic fire extinguishing system for commercial

534 cooking systems shall be of a type recognized for protection of commercial cooking equipment
535 and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in
536 accordance with UL300 and listed and labeled for the intended application. The system shall
537 be installed in accordance with this code, its listing and the manufacturer's installation
538 instructions." The exception in Section [~~904.11~~] 904.12 is not deleted and shall remain as
539 currently written in the IFC.["

540 [~~(12)~~] (13) IFC, Chapter 9, Section 904.12.3, Carbon dioxide systems, and Section
541 904.12.3.1, Ventilation system, are deleted and rewritten as follows:

542 "904.12.3 existing automatic fire extinguishing systems used for commercial cooking.

543 Existing automatic fire extinguishing systems used for commercial cooking that use dry
544 chemical are prohibited and shall be removed from service.

545 904.12.3.1 UL300 listed and labeled existing wet chemical fire extinguishing system.

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

549 [~~(13)~~] (14) IFC, Chapter 9, Section 904.12.4, Special provisions for automatic sprinkler
550 systems, is amended to add the following subsection: " 904.12.4.2 Existing automatic fire
551 sprinkler systems protecting commercial cooking equipment, hood, and exhaust systems that
552 generate appreciable depth of cooking oils shall be replaced with a UL300 system that is listed
553 and labeled for the intended application."

554 [~~(14)~~] (15) IFC, Chapter 9, Section [~~906.12.6.2~~] 904.12.5.2, Extinguishing system
555 service, is amended to add the following: "Exception: Automatic fire extinguishing systems
556 located in occupancies where usage is limited and less than six consecutive months may be
557 serviced annually if the annual service is conducted immediately before the period of usage,
558 and approval is received from the AHJ."

559 [~~(15)~~] (16) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open
560 Parking Garages. Open parking garages shall be equipped with an approved Class I manual
561 standpipe system when fire department access is not provided for firefighting operations to

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

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

568 ~~[(16)]~~ (17) IFC, Chapter 9, Section 905.8, Dry Standpipes, Exception is deleted and
569 rewritten as follows: "Where subject to freezing conditions and approved by the fire code
570 official."

571 ~~[(17)]~~ (18) IFC, Chapter 9, Section ~~[905.11]~~ 905.12, Existing buildings, ~~[and IFC,~~
572 ~~Chapter 11, Section 1103.6, Standpipes, are]~~ is deleted.

573 ~~[(18)]~~ (19) In IFC, Chapter 9, Section 906.1, ~~[Where Required, insert an additional~~
574 ~~exception as follows: "Exception: In new and existing Group E occupancies equipped with~~
575 ~~quick response sprinklers, portable fire extinguishers shall be required only in locations~~
576 ~~specified in items 2 through 6."]~~ Exception 2 is amended as follows: on line three after the
577 word "6," delete the remainder of the paragraph.

578 ~~[(19)]~~ (20) IFC, Chapter 9, Section 907.2.3 Group E:

579 (a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system
580 that ~~[activates the occupant notification system in accordance with Section 907.5 and installed~~
581 ~~in accordance with Section 907.6]~~ initiates the occupant notification signal using an emergency
582 voice/alarm communication system that meets the requirements of Section 907.5.2.2, or a
583 manual fire alarm system that initiates an audible and visual occupant notification signal that
584 meets the requirements of Sections 907.4.2.1 and 907.5.2.3, and is installed in accordance with
585 Section 907.6, and with rules made by the Utah Fire Prevention Board in accordance with Title
586 63G, Chapter 3, Utah Administrative Rulemaking Act, shall be installed in Group E
587 occupancies."

588 (b) Exception 2, delete entirely.

589 (c) Exception number 4.2, on line five, delete the words, "emergency voice/alarm

590 communication system" and replace with "fire alarm."

591 ~~[(20)]~~ (21) IFC, Chapter 9, 907.8, Inspection, testing, and maintenance, is amended to
592 add the following sentences at the end of the section: "Increases in nuisance alarms shall
593 require the fire alarm system to be tested for sensitivity. Fire alarm systems that continue after
594 sensitivity testing with unwarranted nuisance alarms shall be replaced as directed by the AHJ."

595 ~~[(21)]~~ (22) IFC, Chapter 9, Section 915, Carbon Monoxide Detection, is deleted and
596 rewritten as follows:

597 "915. Carbon Monoxide Detection.

598 915.1 Where required.

599 Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning
600 appliance or in a building that has an attached garage shall be equipped with single-station
601 carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL
602 2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the
603 manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed
604 parking garage, ventilated in accordance with Section 404 of the International Mechanical
605 Code, shall not be considered an attached garage. A minimum of one carbon monoxide alarm
606 shall be installed on each habitable level.

607 915.2 Interconnection.

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

614 915.3 Power source.

615 In new construction, required carbon monoxide alarms shall receive their primary
616 power from the building wiring where such wiring is served from a commercial source and
617 shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that

618 are not equipped with battery backup shall be connected to an emergency electrical system.
619 Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be
620 permanent and without a disconnecting switch other than as required for overcurrent
621 protection.

622 Exceptions.

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

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

629 915.4 Group E.

630 A carbon monoxide detection system shall be installed in new buildings that contain
631 Group E occupancies in accordance with this section. A carbon monoxide detection system
632 shall be installed in existing buildings that contain Group E occupancies in accordance with
633 IFC, Chapter 11, Section 1103.9.

634 915.4.1 Where required.

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

637 915.4.2 Detection equipment.

638 Each carbon monoxide detection system shall be installed in accordance with NFPA
639 720 and the manufacturer's instructions, and be listed, for single station detectors, as complying
640 with UL 2034, and for system detectors, as complying with UL 2075.

641 915.4.3 Combination detectors.

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

645 915.4.4 Power source.

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

651 915.4.5 Maintenance.

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

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

656 **15A-5-205. Amendments and additions to IFC related to means of egress and**
657 **special processes and uses.**

658 (1) In IFC, Chapter 10, Section 1008.2.1, Illumination level under normal power,
659 delete [~~exemption~~] exception.

660 (2) In IFC, Chapter 10, Section 1010.1.9, Door operations, a new exception is added as
661 follows: "Exception: Group E occupancies for purposes of a lockdown or a lockdown drill in
662 accordance with Section [~~1010.1.9.5~~] 1010.1.9.6 Exception 5."

663 (3) In IFC, Chapter 10, Section 1010.1.9.2, Hardware height, "Exception:" is deleted
664 and replaced with "Exceptions: 1."

665 (4) In IFC, Chapter 10, Section 1010.1.9.2, Hardware height, Exception 2 is added as
666 follows: "2. Group E occupancies for purposes of a lockdown or a lockdown drill may have
667 one lock below 34 inches in accordance with Section [~~1010.1.9.5~~] 1010.1.9.6 Exception 5."

668 (5) In IFC, Chapter 10, Section [~~1010.1.9.3~~] 1010.1.9.4, Locks and latches, Item [~~6~~] 7
669 is added after the existing Item [~~5~~] 6 as follows: "[~~6~~] 7. Group E occupancies for purposes of a
670 lockdown or a lockdown drill in accordance with Section [~~1010.1.9.5~~] 1010.1.9.6 Exception
671 5."

672 (6) In IFC, Chapter 10, Section [~~1010.1.9.4~~] 1010.1.9.5, Bolt locks, Exception 6 is
673 added after the existing Exception 5 as follows: "6. Group E occupancies for purposes of a

674 lockdown or a lockdown drill in accordance with Section [~~1010.1.9.5~~] 1010.1.9.6 Exception
675 5."

676 (7) In IFC, Chapter 10, Section [~~1010.1.9.5~~] 1010.1.9.6, Unlatching, Exception 5 is
677 added after the existing Exception 4 as follows: "5. Group E occupancies may have a second
678 lock on classrooms for purposes of a lockdown or lockdown drill, if:

679 5.1 The application of the lock is approved by the code official.

680 5.2 The unlatching of any door or leaf does not require more than two operations.

681 5.3 The lock can be released from the opposite side of the door on which it is installed.

682 5.4 The lock is only applied during lockdown or during a lockdown drill.

683 5.5 The lock complies with all other state and federal regulations, including the
684 Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq."

685 (8) IFC, Chapter 10, Section [~~1010.1.9.6~~] 1010.1.9.7, Controlled egress doors in
686 [~~groups~~] Groups I-1 and I-2, after existing Item 8 add Item 9 as follows: " 9. The secure area or
687 unit with special egress locks shall be located at the level of exit discharge in Type V
688 construction."

689 (9) In IFC, Chapter 10, Section [~~1010.1.9.7~~] 1010.1.9.8.1, Delayed egress [~~locks~~]
690 locking system, Item 9 is added after the existing Item 8 as follows: " 9. The secure area or
691 unit with delayed egress locks shall be located at the level of exit discharge in Type V
692 construction."

693 (10) In IFC, Chapter 10, Section [BE] 1011.5.2, Riser height and tread depth,
694 Exception 3 is deleted and replaced with the following: " 3. In Group R-3 occupancies, within
695 dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to a
696 Group R-3 occupancy, or accessory to individual dwelling units in Group R-2 occupancies, the
697 maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9
698 inches (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254
699 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than
700 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways
701 with solid risers where the tread depth is less than 10 inches (254 mm)."

702 (11) IFC, Chapter 10, Section [BE] 1011.11, Handrails, is amended to add the
703 following exception: " 5. In occupancies in Group R-3, as applicable in Section 1014 and in
704 occupancies in Group U, which are accessory to an occupancy in Group R-3, as applicable in
705 Section 1014, handrails shall be provided on at least one side of stairways consisting of four or
706 more risers."

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

710 (13) IFC, Chapter 10, Section 1025, Luminous Egress Path Markings, is deleted.

711 (14) IFC, Chapter 10, Section [~~1029.14~~] 1029.15, Seat stability, delete [~~Exemption~~]
712 Exception 2 and renumber [~~exemptions~~] exceptions.

713 (15) IFC, Chapter 10, Section 1031.2.1, Security [~~Devices and Egress Locks~~] devices
714 and egress locks, is amended to add the following: On line three, after the word "fire", add the
715 words "and building."

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

717 **15A-5-205.5. Amendments to Chapters 11 and 12 of IFC.**

718 (1) For IFC, Chapter 11, Construction Requirements for Existing Buildings:

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

722 [~~(2)~~] (b) IFC, Chapter 11, Section 1103.5.1 Group A-2, is deleted and replaced with the
723 following:

724 "1103.5.1 Group A-2. An automatic fire sprinkler system shall be provided throughout
725 existing Group A-2 occupancies where indoor pyrotechnics are used."

726 [~~(3)~~] (c) IFC, Chapter 11, Section 1103.6, Standpipes, is deleted.

727 [~~(4)~~] (d) In IFC, Chapter 11, 1103.7, Fire Alarm Systems, is deleted and rewritten as
728 follows: "1103.7, Fire Alarm Systems. The following shall have an approved fire alarm system
729 installed in accordance with Utah Administrative Code [~~Section R710-4~~], R710-4, Buildings

730 Under the Jurisdiction of the State Fire Prevention Board:

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

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

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

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

739 ~~[(5)]~~ (e) IFC, Chapter 11, 1103.7.1 Group E, 1103.7.2 Group I-1, 1103.7.3 Group I-2,
740 1103.7.4 Group I-3, 1103.7.5 Group R-1, 1103.7.5.1 Group R-1 [~~Hotel and Motel Manual Fire~~
741 ~~Alarm System~~] hotel and motel manual fire alarm system, 1103.7.5.1.1 Group R-1 [~~Hotel and~~
742 ~~Motel Automatic Smoke Detection System~~] hotel and motel automatic smoke detection system,
743 1103.7.5.2 Group R-1 [~~Boarding and Rooming Houses Manual Fire Alarm System~~] boarding
744 and rooming houses manual fire alarm system, 1103.7.5.2.1 Group R-1 [~~Boarding and~~
745 ~~Rooming Houses Automatic Smoke Detection System~~] boarding and rooming houses
746 automatic smoke detection system, 1103.7.6 Group R-2 [~~and 1103.7.7 Group R-4,~~] are deleted.

747 ~~[(6)]~~ (f) IFC, Chapter 11, Section 1103.9, Carbon [~~Monoxide Alarms~~] monoxide
748 alarms, is deleted and rewritten as follows:

749 "1103.9 Carbon Monoxide Detection.

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

752 (2) For IFC, Chapter 12, Energy Systems:

753 (a) Delete the section title "1204.2.1 Solar photovoltaic systems for Group R-3
754 buildings" and replace with the section title "1204.2.1 Solar photovoltaic systems for Group
755 R-3 and buildings constructed in accordance with IRC."

756 (b) Section 1204.2.1, Solar photovoltaic systems for Group R-3 buildings, Exception 1
757 is deleted, Exception 2 is renumbered to 1 and a second exception is added as follows: "2.

758 Reduction in pathways and clear access width are permitted where a rational approach has been
759 used and the reduction is warranted and approved by the Fire Code Official."

760 (c) Section 1204.3.1 Perimeter pathways, and 1204.3.2 Interior pathways, are deleted
761 and rewritten as follows: "1204.3.1 Perimeter pathways. There shall be a minimum three foot
762 wide (914 mm) clear perimeter around the edges of the roof. The solar installation shall be
763 designed to provide designated pathways. The pathways shall meet the following requirements:

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

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

769 3. Smoke and heat vents required by Section 910.2.1 or 910.2.2 shall be provided with
770 a clear pathway width of not less than three feet (914 mm) to the vents.

771 4. Access to roof area required by Section 504.3 or 1011.12 shall be provided with a
772 clear pathway width of not less than three feet (914 mm) around access opening and at least
773 three feet (914 mm) clear pathway to parapet or roof edge."

774 (d) Section 1204.3.3 Smoke ventilation, is deleted and rewritten as follows: "1204.3.2
775 Smoke ventilation. The solar installation shall be designed to meet the following requirements:

776 1. Arrays shall be no greater than 150 feet (45720 mm) by 150 feet (45720 mm) in
777 distance in either axis in order to create opportunities for fire department smoke ventilation
778 operations.

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

780 2.1 A pathway six feet (1829 mm) or greater in width.

781 2.2 A pathway three feet (914 mm) or greater in width and bordering roof skylights or
782 smoke and heat vents when required by Section 910.2.1 or Section 910.2.2.

783 2.3 Smoke and heat vents designed for remote operation using devices that can be
784 connected to the vent by mechanical, electrical, or any other suitable means, protected as
785 necessary to remain operable for the design period. Controls for remote operation shall be

786 located in a control panel, clearly identified and located in an approved location."

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

788 **15A-5-206. Amendments and additions to IFC related to hazardous materials,**
789 **explosives, fireworks, and flammable and combustible liquids.**

790 (1) For IFC, Hazardous Materials - General Provisions, Chapter 50, Table 5003.1.1(1),
791 Maximum Allowable Quantity per Control Area of Hazardous Materials Posing a Physical
792 Hazard, apply footnote d to [~~Consumer Fireworks~~] Explosives, Storage, Solid Pounds.

793 (2) For IFC, Explosives and Fireworks, IFC, Chapter 56, Section [~~5601.3~~] 5601.1.3,
794 Fireworks, Exception 4 is amended to add the following sentence at the end of the exception:
795 "The use of fireworks for display and retail sales is allowed as set forth in Utah Code, Title 53,
796 Chapter 7, Utah Fire Prevention and Safety Act, Sections [53-7-220](#) through [53-7-225](#); Utah
797 Code, Title 11, Chapter 3, County and Municipal Fireworks Act; Utah Administrative Code,
798 R710-2; and the State Fire Code."

799 (3) For IFC, Chapter 57, Flammable and Combustible Liquids:

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

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

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

809 (4) For IFC, Chapter 61, Liquefied Petroleum Gas:

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

812 (b) IFC, Chapter 61, Section 6103.1, General, is deleted and rewritten as follows:
813 "General. LP Gas equipment shall be installed in accordance with NFPA 54, NFPA 58, the

814 adopted LP Gas rules, and the International Fuel Gas Code, except as otherwise provided in
815 this chapter."

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

820 (d) IFC, Chapter 61, Section 6109.15.1, Automated [~~Cylinder Exchange Stations~~]
821 cylinder exchange stations, is amended as follows: Item # 4 is deleted.

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

825 Section 9. Section **15A-5-302** is amended to read:

826 **15A-5-302. Amendments and additions to NFPA related to National Fire Alarm**
827 **and Signaling Code.**

828 For NFPA 72, National Fire Alarm and Signaling Code, [~~2013~~] 2016 edition:

829 (1) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the
830 following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for
831 Fire Protection, [~~2013~~] 2016 edition."

832 (2) NFPA 72, Chapter 10, Section 10.5.1, System Designer, Subsection [~~10.5.1.1.2(2)~~]
833 10.5.1.3(2), is deleted and rewritten as follows: "National Institute of Certification in
834 Engineering Technologies (NICET) fire alarm level II certified personnel."

835 (3) NFPA 72, Chapter 10, Section 10.5.2, System Installer, Subsection [~~10.5.2.2(2)~~]
836 10.5.2.3(2), is deleted and rewritten as follows: "National Institute of Certification in
837 Engineering Technologies (NICET) fire alarm level II certified personnel."

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

840 "Service personnel shall be qualified and experienced in the inspection, testing, and
841 maintenance of fire alarm systems. Qualified personnel shall meet the certification

842 requirements stated in rule made by the State Fire Prevention Board in accordance with Title
843 63G, Chapter 3, Utah Administrative Rulemaking Act."

844 (5) NFPA 72, Chapter 10, Section [~~10.13~~] 10.12, Fire Alarm Signal Deactivation,
845 Subsection 10.13.2, is amended to add the following sentence: "When approved by the AHJ,
846 the audible notification appliances may be deactivated during the investigation mode to prevent
847 unauthorized reentry into the building."

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

852 (7) NFPA 72, Chapter 26, Section 26.3.4, Indication of Central Station Service,
853 Subsection 26.3.4.7 is amended as follows: On line two, after the word "notified", insert the
854 words "without delay"[:] and delete the words, "within 30 calendar days".

855 Section 10. Section **15A-5-304** is amended to read:

856 **15A-5-304. Amendments and additions to NFPA related to Automatic Fire**
857 **Sprinklers Systems.**

858 (1) NFPA 13, Installation of Sprinkler Systems, [~~2013~~] 2016 edition.

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

861 "8.15.22 System Subdivision - Floor/Zone Control Valves.

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

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

866 "8.17.1.1.1 Single Tenant Occupancies.

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

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

872 "8.17.1.1.2 Multi-Tenant Occupancies.

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

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

878 "8.17.1.1.3 Exterior Waterflow Alarm.

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

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

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

885 "7.6.1 Exterior Waterflow Alarm.

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

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

891 "7.6.2 Interior Alarm.

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

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

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

900 "6.8.9 Floor/Zone Control Valves.

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

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

905 "6.16.1.1 Local Waterflow Alarms.

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

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

911 "6.16.1.2 Exterior Waterflow Alarm.

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

914 Section 11. **Repealer.**

915 This bill repeals:

916 Section **15A-5-207, Amendments and additions to IFC related to existing buildings**
917 **and referenced standards.**

918 Section 12. **Effective date.**

919 This bill takes effect on July 1, 2019.