

FIRE CODE AMENDMENTS

2019 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: James A. Dunnigan

Senate Sponsor: Curtis S. Bramble

LONG TITLE

Committee Note:

The Business and Labor Interim Committee recommended this bill.

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



- 28 **15A-5-203**, as last amended by Laws of Utah 2016, Chapters 174, 174, and 216
- 29 **15A-5-204**, as last amended by Laws of Utah 2016, Chapter 216
- 30 **15A-5-205**, as last amended by Laws of Utah 2018, Chapter 158
- 31 **15A-5-205.5**, as last amended by Laws of Utah 2016, Chapter 216
- 32 **15A-5-206**, as last amended by Laws of Utah 2016, Chapter 216
- 33 **15A-5-302**, as last amended by Laws of Utah 2016, Chapter 216
- 34 **15A-5-304**, as enacted by Laws of Utah 2016, Chapter 216

35 REPEALS:

- 36 **15A-5-207**, as last amended by Laws of Utah 2016, Chapter 216



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

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

40 **15A-5-103. Nationally recognized codes incorporated by reference.**

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

42 (1) the International Fire Code, [~~2015~~] 2018 edition, excluding appendices, as issued

43 by the International Code Council, Inc., except as amended by Part 2, Statewide Amendments

44 and Additions to International Fire Code Incorporated as Part of State Fire Code;

45 (2) National Fire Protection Association, NFPA 96, Standard for Ventilation Control

46 and Fire Protection of Commercial Cooking Operations, [~~2011~~] 2017 edition, except as

47 amended by Part 3, Amendments and Additions to National Fire Protection Association

48 Incorporated as Part of State Fire Code; and

49 (3) National Fire Protection Association, NFPA 1403, Standard on Live Fire Training

50 Evolutions, 2012 edition, except as amended by Part 3, Amendments and Additions to National

51 Fire Protection Association Incorporated as Part of State Fire Code.

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

53 **15A-5-202. Amendments and additions to IFC related to administration, permits,**
54 **definitions, and general and emergency planning.**

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

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

57 "102.5 Application of residential code.

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

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

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

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

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

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

67 "102.9 Matters not provided for.

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

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

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

75 101.9.1 Limitation of emergency order.

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

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

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

81 101.9.2 Right to appeal emergency order.

82 If the emergency order issued under this section will result in the continued
83 infringement or impairment of any legal right or interest of any party, the party shall have a
84 right to appeal the fire code official's order in accordance with IFC, Chapter 1, Section [~~108~~]
85 109."

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

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

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

99 ~~"[108.1.1]~~ 109.1.1 Application of residential code.

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

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

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

113 ~~"[109.3]~~ 110.3 Notice of violation.

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

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

119 (a) IFC, Chapter 2, Section 202, General Definitions, the following definition is added
 120 for Ambulatory Surgical Center: "AMBULATORY SURGICAL CENTER. A building or

121 portion of a building licensed by the [~~Utah~~] Department of Health where procedures are
 122 performed that may render patients incapable of self preservation where care is less than 24
 123 hours.^[4] See Utah Administrative Code, R432-13, Freestanding Ambulatory Surgical Center
 124 Construction Rule."

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

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

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

134 (i) On line three delete the word "five" and replace it with the word "four"~~[-];~~ and

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

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

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

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

152 or shall comply with the International Residential Code in accordance with Section R101.2."

153 ~~[(g)]~~ (h) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification~~]

154 OCCUPANCY CLASSIFICATION, Educational Group E, a new section is added as follows:

155 [~~"Child Care Centers. Areas used for Hourly Child Care Centers, as defined in Utah~~
156 ~~Administrative Code, R430-60, Child Care Center as defined in Utah Administrative Code,~~
157 ~~R430-100, or Out of School Time Programs, as defined in Utah Administrative Code,~~
158 ~~R430-70, may be classified as accessory occupancies."]~~

159 "Child care centers. Each of the
following areas may be classified as accessory occupancies:

160 1. Hourly child care centers, as described in Utah Administrative Code, R381-60,
161 Hourly Child Care Centers;

162 2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care
163 Centers; and

164 3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70,
165 Out of School Time Child Care Programs."

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

169 ~~[(i)]~~ (j) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification,~~
170 ~~Institutional Group I,~~] OCCUPANCY CLASSIFICATION, Institutional Group I-1, Five or
171 fewer persons receiving custodial care is amended as follows: On line four after "International
172 Residential Code" the rest of the section is deleted.

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

176 (i) On line three delete the word "five" and insert the word "three"[-:];

177 (ii) On line six the word "foster" is deleted and replaced with the word "child"[-:]; and

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

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

183 facility".

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

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

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

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

199 ~~[(n)]~~ (o) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification]~~
200 OCCUPANCY CLASSIFICATION, Residential Group R-3, Care facilities within a dwelling,
201 is amended as follows: On line three after the word "dwelling" insert "other than child care".

202 ~~[(o)]~~ (p) IFC, Chapter 2, Section 202, General Definitions, [~~Occupancy Classification]~~
203 OCCUPANCY CLASSIFICATION, Residential Group R-3, a new section is added as follows:
204 "Child Care. Areas used for child care purposes may be located in a residential dwelling unit
205 when all of the following conditions are met:

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

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

- 211 1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or
212 1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and
213 ~~[3-]~~ 1.3 Compliance with all zoning regulations of the local regulator."

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

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

225 (s) IFC, Chapter 2, Section 202, General Definitions, the following definition is added
226 for Type I Assisted Living Facility. "TYPE I ASSISTED LIVING FACILITY. A residential
227 facility licensed by the Department of Health that provides a protected living arrangement,
228 assistance with activities of daily living and social care to two or more ambulatory,
229 non-restrained persons who are capable of mobility sufficient to exit the facility without the
230 assistance of another person. Subcategories are:

- 231 Limited Capacity: two to five residents;
- 232 Small: six to sixteen residents; and
- 233 Large: over sixteen residents."

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

- 238 A. Physically disabled but able to direct his or her own care; or
- 239 B. Cognitively impaired or physically disabled but able to evacuate from the facility, or
240 to a zone or area of safety, with the physical assistance of one persons. Subcategories are:

- 241 Limited Capacity: two to five residents;
- 242 Small: six to sixteen residents; and
- 243 Large: over sixteen residents."

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

245 **15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.**

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

247 (a) IFC, Chapter 3, Section 304.1.2, Vegetation, is amended as follows: Delete line six
248 and replace it with: "[~~the~~] Utah Administrative Code, [~~R652-122-200~~] R652-122-1300,
249 Minimum Standards for County Wildland Fire Ordinance".

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

255 1.1. If the existing or historical hazardous environmental conditions exist in a
256 municipality, the legislative body of the municipality may prohibit the ignition or use of an
257 ignition source in:

258 1.1.1. mountainous, brush-covered, forest-covered, or dry grass-covered areas;

259 1.1.2. within 200 feet of waterways, trails, canyons, washes, ravines, or similar areas;

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

263 1.1.4. a limited area outside the hazardous areas described in this paragraph 1.1 to
264 facilitate a readily identifiable closed area, in accordance with paragraph 2.

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

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

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

276 state forester shall:

277 2.1. designate the closed area along readily identifiable features like major roadways,
278 waterways, or geographic features;

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

282 2.3. identify the closed area through a written description or map that is readily
283 available to the public.

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

287 3.1. makes a finding that the historical hazardous environmental condition has existed
288 in the defined area before July 1 of at least two of the preceding five years;

289 3.2. produces a map indicating the boundaries, in accordance with paragraph 2, of the
290 defined area described; and

291 3.3. before May 1 of each year the defined area is closed, provides the map described
292 in paragraph 3.2 to the county in which the defined area is located.

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

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

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

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

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

306 (a) IFC, Chapter 4, Section 403.10.2.1, College and university buildings, is deleted and

307 replaced with the following:

308 "403.10.2.1 College and university buildings and fraternity and sorority houses.

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

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

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

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

325 (ii) "f. In Group E occupancies, excluding secondary schools, if the AHJ approves, the
326 monthly required emergency evacuation drill can be substituted by a security or safety drill to
327 include shelter in place, earthquake drill, or lock down for violence. The routine emergency
328 evacuation drill ~~shall~~ **must** be conducted at least every other ~~year~~ **year**
328a drill."

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

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

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

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

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

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

339 **15A-5-203. Amendments and additions to IFC related to fire safety, building, and**
340 **site requirements.**

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

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

347 (i) the structure:

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

350 (B) does not meet the requirements described in Utah Code, Subsection
351 65A-8-203(4)(a) and Utah Administrative Code, [~~R652-122-200~~] R652-122-1300, Minimum
352 Standards for County Wildland Fire Ordinance;

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

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

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

360 (v) the total floor area of all floor levels within the exterior walls of the dwelling unit is
361 double the average of the total floor area of all floor levels of unsprinkled homes in the
362 subdivision that are no larger than 10,000 square feet.^[4]

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

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

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

367 (C) has $\hat{H} \rightarrow$ [100] 50 $\leftarrow \hat{H}$ feet of defensible space on all sides that limits the propensity of
367a fire
368 spreading from the dwelling to another property."

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

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

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

384 "507.1.2 Pre-existing subdivision lots.

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

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

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

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

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

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

400 of the roof."]

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

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

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

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

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

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

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

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

421 [2.1. ~~A pathway six feet (1829 mm) or greater in width.]~~

422 [2.2. ~~A three foot (914 mm) or greater in width pathway and bordering roof skylights~~
423 or smoke and heat vents when required by Section 910.2.1 or Section 910.2.2 of this Code.]

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

428 [(f) (a) In IFC, Chapter 6, Section [607.7] 606.7, Elevator [Key Location] key
429 location, is deleted and rewritten as follows: "Firefighter service keys shall be kept in a
430 "Supra-Stor-a-key" elevator key box or similar box with corresponding key system that is

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

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

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

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

443 **15A-5-204. Amendments and additions to IFC related to fire protection and life**
444 **safety systems.**

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

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

450 (2) IFC, Chapter 9, Section 901.4.6, Pump and ~~[Riser Room Size]~~ riser room size, is
451 deleted and replaced with the following: "Pump and Riser Room Size. Fire pump and
452 automatic sprinkler system riser rooms shall be designed with adequate space for all installed
453 equipment necessary for the installation and to provide sufficient working space around the
454 stationary equipment. Clearances around equipment shall be in accordance with manufacturer
455 requirements and not less than the following minimum elements:

456 901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided
457 from the installed equipment to the elements of permanent construction.

458 901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided
459 between all other installed equipment and appliances.

460 901.4.6.3 A clear and unobstructed width of 36 inches shall be provided in front of all
461 installed equipment and appliances, to allow for inspection, service, repair or replacement

462 without removing such elements of permanent construction or disabling the function of a
463 required fire-resistance-rated assembly.

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

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

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

478 (4) IFC, Chapter 9, Section 903.2.2, Ambulatory [~~Health Care Facilities~~] care facilities,
479 is amended as follows: On line two delete the words [~~"all fire areas floor"~~] "entire floor" and
480 replace with the word [~~"buildings"~~] "building" and delete the last paragraph.

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

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

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

489 "903.2.8 Group R.

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

492 Exceptions:

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

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

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

503 [~~903.2.8.1 Group R-4 Condition 2.~~]

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

507 [~~903.2.8.1.1 Attics used for living purposes, storage, or fuel-fired equipment.]~~

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

510 [~~903.2.8.1.2 Attics not used for living purposes, storage, or fuel-fired equipment.]~~

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

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

515 [~~2. Attics constructed of noncombustible materials.]~~

516 [~~3. Attics constructed of fire-retardant-treated wood framing complying with Section~~
517 ~~2303.2 of the International Building Code.]~~

518 [~~4. The automatic sprinkler system shall be extended to provide protection throughout~~
519 ~~the attic space."]~~

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

523 (9) IFC, Chapter 9, Section 903.3.1.2.3, Attics, is amended by adding the following:

524 "Exception: Sprinkler protection in attics is not required in buildings that are not required to be
525 sprinklered by another section of this code."

526 [~~(9)~~] (10) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On
527 line six, after the word "Code", add "and as amended in [~~Utah's~~] the State Construction Code".

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

534 [~~(11)~~] (12) IFC, Chapter 9, Section [~~904.11~~] 904.12, Commercial cooking systems, is
535 deleted and rewritten as follows: "The automatic fire extinguishing system for commercial
536 cooking systems shall be of a type recognized for protection of commercial cooking equipment
537 and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in
538 accordance with UL300 and listed and labeled for the intended application. The system shall
539 be installed in accordance with this code, its listing and the manufacturer's installation
540 instructions." The exception in Section [~~904.11~~] 904.12 is not deleted and shall remain as
541 currently written in the IFC.[^u]

542 [~~(12)~~] (13) IFC, Chapter 9, Section 904.12.3, Carbon dioxide systems, and Section
543 904.12.3.1, Ventilation system, are deleted and rewritten as follows:

544 "904.12.3 existing automatic fire extinguishing systems used for commercial cooking.

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

547 904.12.3.1 UL300 listed and labeled existing wet chemical fire extinguishing system.

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

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

555 and labeled for the intended application."

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

561 ~~[(15)]~~ (16) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open
562 Parking Garages. Open parking garages shall be equipped with an approved Class I manual
563 standpipe system when fire department access is not provided for firefighting operations to
564 within 150 feet of all portions of the open parking garage as measured from the approved fire
565 department vehicle access. Class I manual standpipe shall be accessible throughout the parking
566 garage such that all portions of the parking structure are protected within 150 feet of a hose
567 connection.

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

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

573 ~~[(17)]~~ (18) IFC, Chapter 9, Section ~~[905.11]~~ 905.12, Existing buildings, ~~[and IFC,~~
574 ~~Chapter 11, Section 1103.6, Standpipes, are]~~ is deleted.

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

580 ~~[(19)]~~ (20) IFC, Chapter 9, Section 907.2.3 Group E:

581 (a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system
582 that ~~[activates the occupant notification system in accordance with Section 907.5 and installed~~
583 ~~in accordance with Section 907.6]~~ initiates the occupant notification signal using an emergency
584 voice/alarm communication system that meets the requirements of Section 907.5.2.2, or a
585 manual fire alarm system that initiates an audible and visual occupant notification signal that

586 meets the requirements of Sections 907.4.2.1 and 907.5.2.3, and is installed in accordance with
587 Section 907.6, and with rules made by the Utah Fire Prevention Board in accordance with Title
588 63G, Chapter 3, Utah Administrative Rulemaking Act, shall be installed in Group E
589 occupancies."

590 (b) Exception 2, delete entirely.

591 (c) Exception number 4.2, on line five, delete the words, "emergency voice/alarm
592 communication system" and replace with "fire alarm."

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

597 ~~[(21)]~~ (22) IFC, Chapter 9, Section 915, Carbon Monoxide Detection, is deleted and
598 rewritten as follows:

599 "915. Carbon Monoxide Detection.

600 915.1 Where required.

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

609 915.2 Interconnection.

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

616 915.3 Power source.

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

624 Exceptions.

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

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

631 915.4 Group E.

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

636 915.4.1 Where required.

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

639 915.4.2 Detection equipment.

640 Each carbon monoxide detection system shall be installed in accordance with NFPA
641 720 and the manufacturer's instructions, and be listed, for single station detectors, as complying
642 with UL 2034, and for system detectors, as complying with UL 2075.

643 915.4.3 Combination detectors.

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

647 915.4.4 Power source.

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

653 915.4.5 Maintenance.

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

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

658 **15A-5-205. Amendments and additions to IFC related to means of egress and**
659 **special processes and uses.**

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

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

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

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

670 (5) In IFC, Chapter 10, Section [~~1010.1.9.3~~] 1010.1.9.4, Locks and latches, Item [~~6~~] 7
671 is added after the existing Item [~~5~~] 6 as follows: "[~~6~~] 7. Group E occupancies for purposes of a
672 lockdown or a lockdown drill in accordance with Section [~~1010.1.9.5~~] 1010.1.9.6 Exception
673 5."

674 (6) In IFC, Chapter 10, Section [~~1010.1.9.4~~] 1010.1.9.5, Bolt locks, Exception 6 is
675 added after the existing Exception 5 as follows: "6. Group E occupancies for purposes of a
676 lockdown or a lockdown drill in accordance with Section [~~1010.1.9.5~~] 1010.1.9.6 Exception
677 5."

678 (7) In IFC, Chapter 10, Section [~~1010.1.9.5~~] 1010.1.9.6, Unlatching, Exception 5 is

679 added after the existing Exception 4 as follows: "5. Group E occupancies may have a second
680 lock on classrooms for purposes of a lockdown or lockdown drill, if:

681 5.1 The application of the lock is approved by the code official.

682 5.2 The unlatching of any door or leaf does not require more than two operations.

683 5.3 The lock can be released from the opposite side of the door on which it is installed.

684 5.4 The lock is only applied during lockdown or during a lockdown drill.

685 5.5 The lock complies with all other state and federal regulations, including the
686 Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq."

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

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

695 (10) In IFC, Chapter 10, Section [BE] 1011.5.2, Riser height and tread depth,
696 Exception 3 is deleted and replaced with the following: " 3. In Group R-3 occupancies, within
697 dwelling units in Group R-2 occupancies, and in Group U occupancies that are accessory to a
698 Group R-3 occupancy, or accessory to individual dwelling units in Group R-2 occupancies, the
699 maximum riser height shall be 8 inches (203 mm) and the minimum tread depth shall be 9
700 inches (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254
701 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not less than
702 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways
703 with solid risers where the tread depth is less than 10 inches (254 mm)."

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

709 (12) IFC, Chapter 10, Section 1013.5, Internally illuminated exit signs, delete and

710 rewrite the last sentence to read "Exit signs shall be illuminated at all times, including when the
711 building is not fully occupied."

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

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

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

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

719 **15A-5-205.5. Amendments to Chapters 11 and 12 of IFC.**

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

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

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

726 "1103.5.1 Group A-2. An automatic fire sprinkler system shall be provided throughout
727 existing Group A-2 occupancies where indoor pyrotechnics are used."

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

729 [~~(4)~~] (d) In IFC, Chapter 11, 1103.7, Fire Alarm Systems, is deleted and rewritten as
730 follows: "1103.7, Fire Alarm Systems. The following shall have an approved fire alarm system
731 installed in accordance with Utah Administrative Code [~~Section R710-4~~], R710-4, Buildings
732 Under the Jurisdiction of the State Fire Prevention Board:

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

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

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

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

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

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

751 "1103.9 Carbon Monoxide Detection.

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

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

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

758 (b) Section 1204.2.1, Solar photovoltaic systems for Group R-3 buildings, Exception 1
759 is deleted, Exception 2 is renumbered to 1 and a second exception is added as follows: 2.
760 Reduction in pathways and clear access width are permitted where a rational approach has been
761 used and the reduction is warranted and approved by the Fire Code Official.

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

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

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

771 3. Smoke and heat vents required by Section 910.2.1 or 910.2.2 shall be provided with

772 a clear pathway width of not less than three feet (914 mm) to the vents.

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

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

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

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

782 2.1 A pathway six feet (1829 mm) or greater in width.

783 2.2 A pathway three feet (914 mm) or greater in width and bordering roof skylights or
784 smoke and heat vents when required by Section 910.2.1 or Section 910.2.2.

785 2.3 Smoke and heat vents designed for remote operation using devices that can be
786 connected to the vent by mechanical, electrical, or any other suitable means, protected as
787 necessary to remain operable for the design period. Controls for remote operation shall be
788 located in a control panel, clearly identified and located in an approved location."

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

790 **15A-5-206. Amendments and additions to IFC related to hazardous materials,**
791 **explosives, fireworks, and flammable and combustible liquids.**

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

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

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

802 (a) IFC, Chapter 57, Section 5701.4, Permits, is amended to add the following at the

803 end of the section: "The owner of an underground tank that is out of service for longer than one
804 year shall receive a Temporary Closure Notice from the Department of Environmental Quality,
805 and a copy shall be given to the AHJ."

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

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

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

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

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

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

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

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

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

828 **15A-5-302. Amendments and additions to NFPA related to National Fire Alarm**
829 **and Signaling Code.**

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

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

834 (2) NFPA 72, Chapter 10, Section 10.5.1, System Designer, Subsection [~~10.5.1.1.2(2)~~
835 10.5.1.3(2), is deleted and rewritten as follows: "National Institute of Certification in
836 Engineering Technologies (NICET) fire alarm level II certified personnel."

837 (3) NFPA 72, Chapter 10, Section 10.5.2, System Installer, Subsection [~~10.5.2.2(2)~~
838 10.5.2.3(2), is deleted and rewritten as follows: "National Institute of Certification in
839 Engineering Technologies (NICET) fire alarm level II certified personnel."

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

842 "Service personnel shall be qualified and experienced in the inspection, testing, and
843 maintenance of fire alarm systems. Qualified personnel shall meet the certification
844 requirements stated in rule made by the State Fire Prevention Board in accordance with Title
845 63G, Chapter 3, Utah Administrative Rulemaking Act."

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

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

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

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

858 **15A-5-304. Amendments and additions to NFPA related to Automatic Fire**
859 **Sprinklers Systems.**

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

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

863 "8.15.22 System Subdivision - Floor/Zone Control Valves.

864 Individual floor/zone control valves shall be used at the riser at each floor for

865 connections to piping serving floor areas in excess of 5,000 square feet."

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

868 "8.17.1.1.1 Single Tenant Occupancies.

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

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

874 "8.17.1.1.2 Multi-Tenant Occupancies.

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

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

880 "8.17.1.1.3 Exterior Waterflow Alarm.

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

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

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

887 "7.6.1 Exterior Waterflow Alarm.

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

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

893 "7.6.2 Interior Alarm.

894 When an alarm initiating device is included, an interior fire alarm notification appliance
895 is also required to sound throughout the dwelling. An approved audible sprinkler flow alarm to

896 alert the occupants of the dwelling in a normally occupied location when the flow switch is
897 activated must be provided."

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

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

902 "6.8.9 Floor/Zone Control Valves.

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

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

907 "6.16.1.1 Local Waterflow Alarms.

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

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

913 "6.16.1.2 Exterior Waterflow Alarm.

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

916 **Section 11. Repealer.**

917 This bill repeals:

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

920 **Section 12. Effective date.**

921 This bill takes effect on July 1, 2019.