

FIRE CODE AMENDMENTS

2016 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Fred C. Cox

Senate Sponsor: _____

LONG TITLE

General Description:

This bill amends provisions related to the State Fire Code.

Highlighted Provisions:

This bill:

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

▶ modifies fire code requirements related to:

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

Money Appropriated in this Bill:

None

Other Special Clauses:

None

Utah Code Sections Affected:

AMENDS:



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

39 ENACTS:

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



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

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

44 **15A-5-103. Nationally recognized codes incorporated by reference.**

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

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

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

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

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

57 **15A-5-202. Amendments and additions to IFC related to administration, permits,**
 58 **definitions, and general and emergency planning.**

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

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

62 "102.9 Matters not provided for.

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

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

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

70 [~~(2)~~] 102.9.1 Limitation of emergency order.

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

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

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

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

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

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

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

90 written notice that describes the person's right to appeal under this section."

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

94 "109.3 Notice of violation.

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

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

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

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

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

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

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

117 (f) IFC, Chapter 2, Section 202, General Definitions, Occupancy Classification,
118 Educational Group E, a new section is added as follows: "Child Day Care -- Residential
119 Certificate or a Family License. Areas used for child day care purposes with a Residential
120 Certificate R430-50 or a Family License, as defined in Utah Administrative Code, R430-90,

121 Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as provided in
122 Residential Group R-3, or shall comply with the International Residential Code in accordance
123 with Section R101.2."

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

171 1.1. Utah Administrative Code, R430-50, Residential Certificate Child Care; or

172 1.2. Utah Administrative Code, R430-90, Licensed Family Child Care; and

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

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

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

178 **15A-5-202.5. Amendments and additions to Chapters 3 and 4 of IFC.**

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

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

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

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

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

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

200 3. If the hazardous environmental conditions exist in a metro township created under
201 Title 10, Chapter 2a, Part 4, Incorporation of Metro Townships and Unincorporated Islands in a
202 County of the First Class₂ on and after May 12, 2015, the metro township legislative body may
203 prohibit the ignition or use of an ignition source in all or part of the areas described in
204 paragraph 1 that are within the township."

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

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

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

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

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

216 403.10.2.1, College and university buildings, is deleted and replaced with the following:
217 "403.10.2.1 College and university buildings and fraternity and sorority houses.

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

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

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

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

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

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

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

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

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

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

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

248 **15A-5-203. Amendments and additions to IFC related to fire safety, building, and**
249 **site requirements.**

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

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

256 (i) the structure:

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

259 (B) does not meet the requirements described in Utah Code, Subsection
260 [65A-8-203\(3\)\(a\)](#) and Utah Administrative Code, R652-122-200, Minimum Standards for
261 Wildland Fire Ordinance;

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

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

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

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

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

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

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

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

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

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

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

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

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

307 around the edges of the roof."

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

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

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

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

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

321 ~~[(c) In IFC, Chapter 6, Section 605.11.3.2, Residential Systems for One and Two
322 Family Dwellings, is deleted and rewritten as follows: "Access to residential systems for one
323 and two family dwellings shall be provided in accordance with Sections 605.11.3.2.1 through
324 605.11.3.2.4.]~~

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

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

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

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

335 2.1. A pathway six feet (1829 mm) or greater in width.

336 2.2. A three foot (914 mm) or greater in width pathway and bordering roof skylights or
337 smoke and heat vents when required by Section 910.2.1 or Section 910.2.2 of this Code.

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

342 [~~(e)~~] (f) In IFC, Chapter 6, Section [~~607.4~~] 607.7, Elevator Key Location, is deleted
343 and rewritten as follows: "Firefighter service keys shall be kept in a "Supra-Stor-a-key"
344 elevator key box or similar box with corresponding key system that is adjacent to the elevator
345 for immediate use by the fire department. The key box shall contain one key for each elevator,
346 one key for lobby control, and any other keys necessary for emergency service. The elevator
347 key box shall be accessed using a 6049 numbered key."

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

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

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

356 **15A-5-204. Amendments and additions to IFC related to fire protection systems.**

357 For IFC, Fire Protection Systems:

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

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

368 901.4.6.1 A minimum clear and unobstructed distance of 12 inches shall be provided

369 from the installed equipment to the elements of permanent construction.

370 901.4.6.2 A minimum clear and unobstructed distance of 12 inches shall be provided
371 between all other installed equipment and appliances.

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

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

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

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

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

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

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

399 (7) IFC, Chapter 9, Section 903.2.8 Group R, [~~is amended to add the following:~~

400 ~~"Exception: Detached one- and two-family dwellings and multiple single-family dwellings~~
401 ~~(townhouses) constructed in accordance with the International Residential Code for one- and~~
402 ~~two-family dwellings."]~~ including all subsections, is deleted and rewritten as follows:

403 "903.2.8 Group R.

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

406 Exceptions:

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

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

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

417 903.2.8.1 Group R-4 Condition 2.

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

421 903.2.8.1.1 Attics used for living purposes, storage, or fuel-fire equipment.

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

424 903.2.8.1.2 Attics not used for living purposes, storage, or fuel-fired equipment.

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

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

429 2. Attics constructed of noncombustible materials.

430 3. Attics constructed of fire-retardant-treated wood framing complying with Section

431 2303.2 of the International Building Code.

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

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

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

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

446 [~~(11) IFC, Chapter 9, Section 903.3.1.1 is amended by adding the following~~
447 ~~subsection: "903.3.1.1.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler~~
448 ~~system installed in accordance with NFPA 13 may not exceed a maximum concentration of~~
449 ~~38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may~~
450 ~~not exceed 150 gallons."~~]

451 [~~(12) IFC, Chapter 9, Section 903.3.1.2 is amended by adding the following~~
452 ~~subsection: "903.3.1.2.2 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler~~
453 ~~system installed in accordance with NFPA 13R may not exceed a maximum concentration of~~
454 ~~38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may~~
455 ~~not exceed 150 gallons."~~]

456 [~~(13) IFC, Chapter 9, Section 903.3.1.3 is amended by adding the following~~
457 ~~subsection: "903.3.1.3.1 Antifreeze Limitations. Antifreeze used in a new automatic sprinkler~~
458 ~~system installed in accordance with NFPA 13D may not exceed a maximum concentration of~~
459 ~~38% premixed propylene glycol or 48% premixed glycerin, and the capacity of the system may~~
460 ~~not exceed 150 gallons."~~]

461 [(14)] (9) IFC, Chapter 9, Section 903.3.5, Water supplies, is amended as follows: On

462 line six, after the word "Code", add "and as amended in Utah's State Construction Code".

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

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

476 ~~[(17)]~~ (12) IFC, Chapter 9, Section ~~[904.11.3]~~ 904.12.3, Carbon dioxide systems, and
477 Section ~~[904.11.3.1]~~ 904.12.3.1, Ventilation system, are deleted and rewritten as follows:

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

479 Existing automatic fire extinguishing systems used for commercial cooking that use dry
480 chemical are prohibited and shall be removed from service.^[a]

481 ~~[(b)]~~ "904.12.3.1 UL300 listed and labeled existing wet chemical fire extinguishing
482 system.

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

486 ~~[(18)]~~ (13) IFC, Chapter 9, Section ~~[904.11.4]~~ 904.12.4, Special provisions for
487 automatic sprinkler systems, is amended to add the following subsection: "~~[904.11.4.2]~~

488 904.12.4.2 Existing automatic fire sprinkler systems protecting commercial cooking
489 equipment, hood, and exhaust systems that generate appreciable depth of cooking oils shall be
490 replaced with a UL300 system that is listed and labeled for the intended application."

491 ~~[(19)]~~ (14) IFC, Chapter 9, Section ~~[904.11.6.2]~~ 906.12.6.2, Extinguishing system
492 service, is amended to add the following: "Exception: Automatic fire extinguishing systems

493 located in occupancies where usage is limited and less than six consecutive months may be
494 serviced annually if the annual service is conducted immediately before the period of usage,
495 and approval is received from the AHJ."

496 ~~[(20)]~~ (15) IFC, Chapter 9, Section 905.3.9 is a new subsection as follows: "Open
497 Parking Garages. Open parking garages shall be equipped with an approved Class I manual
498 standpipe system when fire department access is not provided for firefighting operations to
499 within 150 feet of all portions of the open parking garage as measured from the approved fire
500 department vehicle access. Class I manual standpipe shall be accessible throughout the parking
501 garage such that all portions of the parking structure are protected within 150 feet of a hose
502 connection.

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

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

508 ~~[(22)]~~ (17) IFC, Chapter 9, Section 905.11, Existing buildings, and IFC, Chapter 11,
509 Section 1103.6, Standpipes, are deleted.

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

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

518 ~~[(24)]~~ (19) IFC, Chapter 9, Section 907.2.3 Group E:

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

524 (b) Exception 2, delete entirely.

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

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

532 ~~[(26)]~~ (21) IFC, Chapter 9, Section [~~908.7~~] 915, Carbon Monoxide [~~Alarms~~] Detection,
533 is deleted and rewritten as follows:

534 [~~908.7 Carbon Monoxide Detection:~~]

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

538 [~~908.7.1.1 If more than one carbon monoxide detector is required, the carbon~~
539 ~~monoxide detectors shall be interconnected as required in IFC, Chapter 9, Section 907.2.11.3:]~~

540 [~~908.7.1.2 In new construction, a carbon monoxide detector shall receive its primary~~
541 ~~power as required under IFC, Chapter 9, Section 907.2.11.4:]~~

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

545 "915. Carbon Monoxide Detection.

546 915.1 Where required.

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

555 915.2 Interconnection.

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

562 915.3 Power source.

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

570 Exceptions.

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

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

577 [~~908.7.2~~] 915.4 Group E.

578 A carbon monoxide detection system shall be installed in new buildings that contain
579 Group E occupancies in accordance with [~~IFC, Chapter 9, Sections 908.7.2.1 through~~
580 ~~908.7.2.6.~~] this section. A carbon monoxide detection system shall be installed in existing
581 buildings that contain Group E occupancies in accordance with IFC, Chapter 11, Section
582 1103.9.

583 [~~908.7.2.1~~] 915.4.1 Where required.

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

586 [908.7.2.2] 915.4.2 Detection equipment.

587 Each carbon monoxide detection system shall be installed in accordance with NFPA
588 720 and the manufacturer's instructions, and be listed, for single station detectors, as complying
589 with UL 2034, and for system detectors, as complying with UL 2075.

590 [~~908.7.2.3~~ Locations. ~~Each carbon monoxide detection system shall be installed in the~~
591 ~~locations specified in NFPA 720.~~]

592 [908.7.2.4] 915.4.3 Combination detectors.

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

596 [908.7.2.5] 915.4.4 Power source.

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

602 [908.7.2.6] 915.4.5 Maintenance.

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

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

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

608 **15A-5-205. Amendments and additions to IFC related to means of egress and**
609 **special processes and uses.**

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

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

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

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

617 ~~[(c) After]~~ (2) In IFC, Chapter 10, Section 1010.1.9.6, Controlled egress doors in
618 groups I-1 and I-2, after existing Item [7] 8 add Item [8] 9 as follows: "[8] 9. The secure area
619 or unit with special egress locks shall be located at the level of exit discharge in Type V
620 construction."

621 ~~[(2)]~~ (3) In IFC, Chapter 10, Section ~~[1008.1.9.7]~~ 1010.1.9.7, Delayed egress locks,
622 Item [7] 9 is added after the existing Item [6] 8 as follows: "[7] 9. The secure area or unit with
623 delayed egress locks shall be located at the level of exit discharge in Type V construction."

624 ~~[(3)]~~ (4) In IFC, Chapter 10, Section ~~[B]1009.7.2, Stair Treads and Risers, Exception~~
625 5] [BE] 1011.5.2, Riser height and tread depth, Exception 3 is deleted and replaced with the
626 following: "[5] 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies,
627 and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to
628 individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8
629 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum
630 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder
631 tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not
632 more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread
633 depth is less than 10 inches (254 mm)."

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

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

642 ~~[(5)]~~ (7) IFC, Chapter 10, Section ~~[1024]~~ 1025, Luminous Egress Path Markings, is
643 deleted.

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

646 ~~[(6)]~~ (9) IFC, Chapter 10, Section ~~[1030.2.1]~~ 1031.2.1, Security Devices and Egress
647 Locks, is amended to add the following: On line three, after the word "fire", add the words "and

648 building."

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

650 **15A-5-205.5. Amendments to Chapter 11 of IFC.**

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

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

657 "1103.5.1 Group A-2. An automatic fire sprinkler system shall be provided throughout
658 existing Group A-2 occupancies where indoor pyrotechnics are used."

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

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

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

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

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

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

671 (5) IFC, Chapter 11, 1103.7.1 Group E, 1103.7.2 Group I-1, 1103.7.3 Group I-2,
672 1103.7.4 Group I-3, 1103.7.5 Group R-1, 1103.7.5.1 Group R-1 Hotel and Motel Manual Fire
673 Alarm System, 1103.7.5.1.1 Group R-1 Hotel and Motel Automatic Smoke Detection System,
674 1103.7.5.2 Group R-1 Boarding and Rooming Houses Manual Fire Alarm System, 1103.7.5.2.1
675 Group R-1 Boarding and Rooming Houses Automatic Smoke Detection System, 1103.7.6
676 Group R-2 and 1103.7.7 Group R-4, are deleted.

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

679 "1103.9 Carbon Monoxide Detection.

680 [~~1103.9.1 Groups R-2, R-3, R-4, I-1, and I-4. Carbon monoxide detection shall be~~
681 ~~installed on each habitable level of a dwelling unit or a sleeping unit in existing Groups R-2,~~
682 ~~R-3, R-4, I-1, and I-4 occupancies that are equipped with a fuel-burning appliance.]~~

683 [~~1103.9.1.1 If more than one carbon monoxide detector is required, they shall be~~
684 ~~interconnected as required in IFC, Chapter 9, Section 907.2.11.3.]~~

685 [~~1103.9.1.2 In new construction, a carbon monoxide detector shall receive its primary~~
686 ~~power as required under IFC, Chapter 9, Section 907.2.11.4.]~~

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

691 [~~1103.9.2 Group E. Carbon monoxide detection shall be installed in existing buildings~~
692 ~~that contain Group E occupancies in accordance with IFC, Chapter 9, Sections 908.7.2.1~~
693 ~~through 908.7.2.6."]~~

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

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

697 **15A-5-206. Amendments and additions to IFC related to hazardous materials,**
698 **explosives, fireworks, and flammable and combustible liquids.**

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

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

708 ~~(2)~~ (3) For IFC, Chapter 57, Flammable and Combustible Liquids:

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

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

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

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

718 ~~[(3)]~~ (4) For IFC, Chapter 61, Liquefied Petroleum Gas:

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

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

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

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

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

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

735 **15A-5-207. Amendments and additions to IFC related to existing buildings and**
736 **referenced standards.**

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

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

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

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

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

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

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

746 [~~(f) "NFPA, Standard 13D, Installation of Sprinkler Systems in One- and Two-family~~

747 ~~Dwellings and Manufactured Homes, 2010 edition";]~~

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

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

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

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

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

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

754 ~~edition";]~~

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

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

757 ~~Appurtenances, 2010 edition";]~~

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

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

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

761 ~~Spaces, 2009 edition";]~~

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

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

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

765 ~~Equipment, 2009 edition";]~~

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

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

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

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

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

771 Under the heading NFPA - National Fire Protection Association, add Standard

772 reference: "NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial
773 Cooking Operations, 2011 edition."

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

775 **15A-5-302. Amendments and additions to NFPA related to National Fire Alarm**
776 **Code.**

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

778 (1) NFPA 72, Chapter 2, Section 2.2, NFPA Publications, is amended to add the
779 following NFPA standard: "NFPA 20, Standard for the Installation of Stationary Pumps for
780 Fire Protection, [~~2010~~] 2013 edition."

781 (2) NFPA 72, Chapter 10, Section [~~10.4.1~~] 10.5.1, System Designer, Subsection
782 [~~10.4.1.2(2)~~] 10.5.1.1.2(2), is deleted and rewritten as follows: "National Institute of
783 Certification in Engineering Technologies (NICET) fire alarm level II certified personnel."

784 (3) NFPA 72, Chapter 10, Section [~~10.4.2~~] 10.5.2, System Installer, Subsection
785 [~~10.4.2.2(2)~~] 10.5.2.2(2), is deleted and rewritten as follows: "National Institute of Certification
786 in Engineering Technologies (NICET) fire alarm level II certified personnel."

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

789 "Service personnel shall be qualified and experienced in the inspection, testing, and
790 maintenance of fire alarm systems. Qualified personnel shall meet the certification
791 requirements stated in rule made by the State Fire Prevention Board in accordance with Title
792 63G, Chapter 3, Utah Administrative Rulemaking Act."

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

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

801 [(6) In NFPA 72, Chapter 10, Section 10.15, a new Exception 1 is added as follows:
802 "When ambient conditions prohibit installation of automatic smoke detection, automatic heat

803 ~~detection shall be permitted."]~~

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

808 ~~[(8)]~~ (7) NFPA 72, Chapter 26, Section 26.3.4, Indication of Central Station Service,
809 Subsection 26.3.4.7 is amended as follows: On line two, after the word "notified", insert the
810 words "without delay".

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

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

817 **15A-5-304. Amendments and additions to NFPA related to Automatic Fire**
818 **Sprinklers Systems.**

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

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

822 "8.15.22 System Subdivision - Floor/Zone Control Valves.

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

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

827 "8.17.1.1.1 Single Tenant Occupancies.

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

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

833 "8.17.1.1.2 Multi-Tenant Occupancies.

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

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

839 "8.17.1.1.3 Exterior Waterflow Alarm.

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

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

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

846 "7.6.1 Exterior Waterflow Alarm.

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

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

851 "7.6.2 Interior Alarm.

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

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

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

859 "6.8.9 Floor/Zone Control Valves.

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

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

864 "6.16.1.1 Local Waterflow Alarms.

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

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

870 "6.16.1.2 Exterior Waterflow Alarm.

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

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

874 **53-7-225. Times for sale and discharge of fireworks.**

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

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

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

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

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

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

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

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

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

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

889 or

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

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

895 (4) A person who violates the time restrictions stated in Subsection (3)(a), (b), or (c) is

896 guilty of an infraction.

897 (5) A county or municipality may prohibit any person from discharging class C

898 common state approved explosives:

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

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

901 class C common state approved explosives.

Legislative Review Note
Office of Legislative Research and General Counsel