

**Representative Brad R. Wilson** proposes the following substitute bill:

**BUILDING CODE REVIEW AND ADOPTION AMENDMENTS**

2016 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Brad R. Wilson**

Senate Sponsor: \_\_\_\_\_

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**LONG TITLE**

**General Description:**

This bill amends provisions related to the State Construction Code.

**Highlighted Provisions:**

This bill:

- ▶ modifies the process by which the Legislature adopts new versions of the State Construction Code and the State Fire Code;
- ▶ addresses the ability of state and local entities to adopt a rule or ordinance that is different from the State Construction Code or the State Fire Code;
- ▶ adopts, with amendments:
  - the 2015 International Building Code;
  - the 2015 International Residential Code;
  - the 2015 International Plumbing Code;
  - the 2015 International Mechanical Code;
  - the 2015 International Fuel Gas Code;
  - the 2014 National Electric Code;
  - the 2015 International Energy Conservation Code; and
  - the 2015 International Existing Building Code;
- ▶ updates provisions to coordinate with the newly adopted international codes;



- 26 ▶ amends provisions related to the amount of fireworks a person may store in a
- 27 building equipped with an approved sprinkler system;
- 28 ▶ amends provisions related to carbon monoxide alarm installation;
- 29 ▶ amends provisions related to supplying toilet facilities during building construction;
- 30 ▶ provides an alternative means of complying with the International Energy
- 31 Conservation Code;
- 32 ▶ amends provisions related to air duct leakage testing;
- 33 ▶ modifies the amount of allowed air duct leakage;
- 34 ▶ modifies energy rating index compliance requirements;
- 35 ▶ modifies installation requirements for potable water supply protection;
- 36 ▶ modifies electrical wiring requirements for a basement, garage, or accessory
- 37 building;
- 38 ▶ deletes a requirement in the International Plumbing Code that trenching parallel to a
- 39 footing or wall not extend into the bearing plane of the footing or wall;
- 40 ▶ deletes an International Plumbing Code requirement for installation of a temperature
- 41 limiting device in a footbath, pedicure bath, or head shampoo sink;
- 42 ▶ deletes an International Plumbing Code requirement for multiple-compartment
- 43 sinks that discharge independently to a waste receptor;
- 44 ▶ provides an alternative method for storm drain installation;
- 45 ▶ provides for the use of a gray water recycling system in a single family residential
- 46 area;
- 47 ▶ provides an alternative compliance method related to embedded joints;
- 48 ▶ provides an alternative method for installing an overcurrent device;
- 49 ▶ provides emission requirements for certain natural gas-fired water heaters; and
- 50 ▶ amends provisions to coordinate with newly adopted codes and related Utah Code
- 51 sections.

**52 Money Appropriated in this Bill:**

53 None

**54 Other Special Clauses:**

55 None

**56 Utah Code Sections Affected:**

57 AMENDS:

58 **15A-1-204**, as last amended by Laws of Utah 2014, Chapters 178 and 189

59 **15A-1-403**, as enacted by Laws of Utah 2011, Chapter 14

60 **15A-2-102**, as last amended by Laws of Utah 2014, Chapter 189

61 **15A-2-103**, as last amended by Laws of Utah 2015, Chapter 258

62 **15A-2-104**, as last amended by Laws of Utah 2014, Chapter 189

63 **15A-3-102**, as last amended by Laws of Utah 2013, Chapter 297

64 **15A-3-103**, as last amended by Laws of Utah 2013, Chapter 297

65 **15A-3-104**, as last amended by Laws of Utah 2014, Chapter 243

66 **15A-3-105**, as last amended by Laws of Utah 2013, Chapter 297

67 **15A-3-106**, as last amended by Laws of Utah 2014, Chapter 153

68 **15A-3-107**, as last amended by Laws of Utah 2013, Chapter 297

69 **15A-3-108**, as last amended by Laws of Utah 2013, Chapter 297

70 **15A-3-110**, as last amended by Laws of Utah 2013, Chapter 297

71 **15A-3-112**, as last amended by Laws of Utah 2013, Chapter 297

72 **15A-3-113**, as last amended by Laws of Utah 2013, Chapter 297

73 **15A-3-202**, as last amended by Laws of Utah 2015, Chapter 205

74 **15A-3-203**, as last amended by Laws of Utah 2013, Chapter 279

75 **15A-3-204**, as last amended by Laws of Utah 2013, Chapter 297

76 **15A-3-205**, as last amended by Laws of Utah 2013, Chapter 297

77 **15A-3-206**, as last amended by Laws of Utah 2013, Chapter 297

78 **15A-3-302**, as last amended by Laws of Utah 2013, Chapter 297

79 **15A-3-303**, as last amended by Laws of Utah 2013, Chapter 297

80 **15A-3-304**, as last amended by Laws of Utah 2013, Chapter 297

81 **15A-3-305**, as last amended by Laws of Utah 2013, Chapter 297

82 **15A-3-306**, as last amended by Laws of Utah 2014, Chapter 189

83 **15A-3-308**, as enacted by Laws of Utah 2011, Chapter 14

84 **15A-3-310**, as last amended by Laws of Utah 2013, Chapter 297

85 **15A-3-311**, as last amended by Laws of Utah 2013, Chapter 297

86 **15A-3-313**, as last amended by Laws of Utah 2013, Chapter 297

87 **15A-3-314**, as last amended by Laws of Utah 2013, Chapter 297

- 88            **15A-3-401**, as last amended by Laws of Utah 2014, Chapter 100
- 89            **15A-3-501**, as last amended by Laws of Utah 2013, Chapter 297
- 90            **15A-3-601**, as last amended by Laws of Utah 2013, Chapter 297
- 91            **15A-3-701**, as last amended by Laws of Utah 2013, Chapter 279
- 92            **15A-3-801**, as last amended by Laws of Utah 2013, Chapter 297
- 93            **15A-4-103**, as enacted by Laws of Utah 2011, Chapter 14
- 94            **15A-4-107**, as enacted by Laws of Utah 2011, Chapter 14
- 95            **15A-4-203**, as enacted by Laws of Utah 2011, Chapter 14
- 96            **58-11a-502**, as last amended by Laws of Utah 2014, Chapter 100

97 ENACTS:

- 98            **15A-3-315**, Utah Code Annotated 1953
- 99            **15A-3-901**, Utah Code Annotated 1953
- 100           **15A-6-101**, Utah Code Annotated 1953
- 101           **15A-6-102**, Utah Code Annotated 1953

102 REPEALS:

- 103           **15A-3-106.5**, as enacted by Laws of Utah 2014, Chapter 153



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

106            Section 1. Section **15A-1-204** is amended to read:

107            **15A-1-204. Adoption of State Construction Code -- Amendments by commission**  
 108 **-- Approved codes -- Exemptions.**

109            (1) (a) The State Construction Code is the construction codes adopted with any  
 110 modifications in accordance with this section that the state and each political subdivision of the  
 111 state shall follow.

112            (b) A person shall comply with the applicable provisions of the State Construction  
 113 Code when:

- 114            (i) new construction is involved; and
- 115            (ii) the owner of an existing building, or the owner's agent, is voluntarily engaged in:
  - 116            (A) the repair, renovation, remodeling, alteration, enlargement, rehabilitation,
  - 117 conservation, or reconstruction of the building; or
  - 118            (B) changing the character or use of the building in a manner that increases the

119 occupancy loads, other demands, or safety risks of the building.

120 (c) On and after July 1, 2010, the State Construction Code is the State Construction  
121 Code in effect on July 1, 2010, until in accordance with this section:

122 (i) a new State Construction Code is adopted; or

123 (ii) one or more provisions of the State Construction Code are amended or repealed in  
124 accordance with this section.

125 (d) A provision of the State Construction Code may be applicable:

126 (i) to the entire state; or

127 (ii) within a county, city, or town.

128 (2) (a) The Legislature shall adopt a State Construction Code by enacting legislation  
129 that adopts a nationally recognized construction code with any modifications.

130 (b) Legislation [~~enacted under this Subsection (2)~~] described in Subsection (2)(a) shall  
131 state that [~~it~~] the legislation takes effect on the July 1 after the day on which the legislation is  
132 enacted, unless otherwise stated in the legislation.

133 (c) Subject to Subsection [~~(5)~~] (6), a State Construction Code adopted by the  
134 Legislature is the State Construction Code until, in accordance with this section, the Legislature  
135 adopts a new State Construction Code by:

136 (i) adopting a new State Construction Code in its entirety; or

137 (ii) amending or repealing one or more provisions of the State Construction Code.

138 (3) (a) Except as provided in Subsection (3)(b), for each update of a nationally  
139 recognized construction code, the commission shall prepare a report described in Subsection  
140 (4).

141 (b) For the provisions of a nationally recognized construction code that apply only to  
142 detached one- and two-family dwellings and townhouses not more than three stories above  
143 grade plane in height with separate means of egress and their accessory structures, the  
144 commission shall:

145 (i) prepare a report described in Subsection (4) in 2024 and, thereafter, for every third  
146 update of the nationally recognized construction code; and

147 (ii) not prepare a report described in Subsection (4) in 2018 or 2021.

148 (4) (a) In accordance with Subsection (3), on or before September 1 of the same year as  
149 the year designated in the title of a nationally recognized construction code, the commission

150 shall prepare and submit a report to the Business and Labor Interim Committee that:

151 (i) states whether the commission recommends the Legislature adopt the update with  
152 any modifications; and

153 (ii) describes the costs and benefits of each recommended change in the update or in  
154 any modification.

155 (b) After the Business and Labor Interim Committee receives the report described in  
156 Subsection (4)(a), the Business and Labor Interim Committee shall:

157 (i) study the recommendations during the remainder of the interim; and

158 (ii) if the Business and Labor Interim Committee decides to recommend legislative  
159 action to the Legislature, prepare legislation for consideration by the Legislature in the next  
160 general session.

161 ~~[(3)]~~ (5) (a) (i) The commission shall, by no later than November 30 of each year in  
162 which the commission is not required to submit a report described in Subsection (4),  
163 recommend in a report to the Business and Labor Interim Committee whether the Legislature  
164 should~~[-(i)]~~ amend or repeal one or more provisions of [a] the State Construction Code~~[-or]~~.

165 ~~[(ii) in a year of a regularly scheduled update of a nationally recognized code, adopt a  
166 construction code with any modifications.]~~

167 (ii) As part of a recommendation described in Subsection (5)(a)(i), the commission  
168 shall describe the costs and benefits of each proposed amendment or repeal.

169 (b) The commission may recommend legislative action related to the State  
170 Construction Code:

171 (i) on its own initiative;

172 (ii) upon the recommendation of the division; or

173 (iii) upon the receipt of a request by one of the following that the commission  
174 recommend legislative action related to the State Construction Code:

175 (A) a local regulator;

176 (B) a state regulator;

177 (C) a state agency involved with the construction and design of a building;

178 (D) the Construction Services Commission;

179 (E) the Electrician Licensing Board;

180 (F) the Plumbers Licensing Board; or

181 (G) a recognized construction-related association.

182 [~~(4)~~] (c) If the Business and Labor Interim Committee decides to recommend  
 183 legislative action to the Legislature, the Business and Labor Interim Committee shall prepare  
 184 legislation for consideration by the Legislature in the next general session [~~that, if passed by the~~  
 185 ~~Legislature, would:~~].

186 [~~(a) adopt a new State Construction Code in its entirety; or]~~

187 [~~(b) amend or repeal one or more provisions of the State Construction Code.]~~

188 [~~(5)~~] (6) (a) Notwithstanding [~~Subsection (3)]~~ the provisions of this section, the  
 189 commission may, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking  
 190 Act, amend the State Construction Code if the commission determines that waiting for  
 191 legislative action in the next general legislative session would:

192 (i) cause an imminent peril to the public health, safety, or welfare; or

193 (ii) place a person in violation of federal or other state law.

194 (b) If the commission amends the State Construction Code in accordance with this  
 195 Subsection [~~(5)~~] (6), the commission shall file with the division:

196 (i) the text of the amendment to the State Construction Code; and

197 (ii) an analysis that includes the specific reasons and justifications for the commission's  
 198 findings.

199 (c) If the State Construction Code is amended under this Subsection [~~(5)~~] (6), the  
 200 division shall:

201 (i) publish the amendment to the State Construction Code in accordance with Section  
 202 [15A-1-205](#); and

203 (ii) notify the Business and Labor Interim Committee of the amendment to the State  
 204 Construction Code, including a copy of the commission's analysis described in Subsection [~~(5)~~]  
 205 (6)(b)(ii).

206 (d) If not formally adopted by the Legislature at [~~its~~] the next annual general session,  
 207 an amendment to the State Construction Code under this Subsection [~~(5)~~] (6) is repealed on the  
 208 July 1 immediately following the next annual general session that follows the adoption of the  
 209 amendment.

210 [~~(6)~~] (7) (a) The division, in consultation with the commission, may approve, without  
 211 adopting, one or more approved codes, including a specific edition of a construction code, for

212 use by a compliance agency.

213 (b) If the code adopted by a compliance agency is an approved code described in  
214 Subsection [~~(6)~~] (7)(a), the compliance agency may:

215 (i) adopt an ordinance requiring removal, demolition, or repair of a building;

216 (ii) adopt, by ordinance or rule, a dangerous building code; or

217 (iii) adopt, by ordinance or rule, a building rehabilitation code.

218 (8) Except as provided in Subsections (6), (7), (9), (10), and (11), or as expressly  
219 provided in state law, a state executive branch entity or political subdivision of the state may  
220 not, after December 1, 2016, adopt or enforce a rule, ordinance, or requirement that applies to a  
221 subject specifically addressed by, and that is more restrictive than, the State Construction Code.

222 (9) A state executive branch entity or political subdivision of the state may enforce a  
223 federal law or regulation.

224 (10) A state executive branch entity or political subdivision of the state may adopt or  
225 enforce a rule, ordinance, or requirement if the rule, ordinance, or requirement applies only to a  
226 facility or construction owned or used by a state entity or a political subdivision of the state.

227 (11) A state executive branch entity or a political subdivision of the state may enforce a  
228 rule, ordinance, or requirement:

229 (a) that the state executive branch entity or political subdivision adopted or made  
230 effective before July 1, 2016; and

231 (b) for which the state executive branch entity or political subdivision can demonstrate,  
232 with substantial evidence, that the rule, ordinance, or requirement is necessary to protect an  
233 individual from a condition likely to cause imminent injury or death.

234 [~~(7)~~] (12) (a) Except as provided in Subsection [~~(7)~~] (12)(b), a structure used solely in  
235 conjunction with agriculture use, and not for human occupancy, is exempt from the permit  
236 requirements of the State Construction Code.

237 (b) (i) Unless exempted by a provision other than Subsection [~~(7)~~] (12)(a), a plumbing,  
238 electrical, and mechanical permit may be required when that work is included in a structure  
239 described in Subsection [~~(7)~~] (12)(a).

240 (ii) Unless located in whole or in part in an agricultural protection area created under  
241 Title 17, Chapter 41, Agriculture and Industrial Protection Areas, a structure described in  
242 Subsection [~~(7)~~] (12)(a) is not exempt from a permit requirement if the structure is located on

243 land that is:

244 (A) within the boundaries of a city or town, and less than five contiguous acres; or

245 (B) within a subdivision for which the county has approved a subdivision plat under  
246 Title 17, Chapter 27a, Part 6, Subdivisions, and less than two contiguous acres.

247 [(8)] (13) A structure that is no more than 1,000 square feet and is used solely for the  
248 type of sales described in Subsection 59-12-104(20) is exempt from the permit requirements  
249 described in:

250 (a) Chapter 2, Adoption of State Construction Code;

251 (b) Chapter 3, Statewide Amendments Incorporated as Part of State Construction  
252 Code; and

253 (c) Chapter 4, Local Amendments Incorporated as Part of State Construction Code.

254 Section 2. Section 15A-1-403 is amended to read:

255 **15A-1-403. Adoption of State Fire Code.**

256 (1) (a) The State Fire Code is:

257 (i) a code promulgated by a nationally recognized code authority that is adopted by the  
258 Legislature under this section with any modifications; and

259 (ii) a code to which cities, counties, fire protection districts, and the state shall adhere  
260 in safeguarding life and property from the hazards of fire and explosion.

261 (b) On and after July 1, 2010, the State Fire Code is the State Fire Code in effect on  
262 July 1, 2010, until in accordance with this section:

263 (i) a new State Fire Code is adopted; or

264 (ii) one or more provisions of the State Fire Code are amended or repealed in  
265 accordance with this section.

266 (c) A provision of the State Fire Code may be applicable:

267 (i) to the entire state; or

268 (ii) within a city, county, or fire protection district.

269 (2) (a) The Legislature shall adopt a State Fire Code by enacting legislation that adopts  
270 a nationally recognized fire code with any modifications.

271 (b) Legislation [~~enacted under this~~] described in Subsection (2)(a) shall state that [it]  
272 the legislation takes effect on the July 1 after the day on which the legislation is enacted, unless  
273 otherwise stated in the legislation.

274 (c) Subject to Subsection [~~(5)~~] (6), a State Fire Code adopted by the Legislature is the  
275 State Fire Code until in accordance with this section the Legislature adopts a new State Fire  
276 Code by:

277 (i) adopting a new State Fire Code in its entirety; or

278 (ii) amending or repealing one or more provisions of the State Fire Code.

279 (3) (a) Except as provided in Subsection (3)(b), for each update of a nationally  
280 recognized fire code, the board shall prepare a report described in Subsection (4).

281 (b) For the provisions of a nationally recognized fire code that apply only to detached  
282 one- and two-family dwellings and townhouses not more than three stories above grade plane  
283 in height with separate means of egress and their accessory structures, the board shall:

284 (i) prepare a report described in Subsection (4) in 2024 and, thereafter, for every third  
285 update of the nationally recognized fire code; and

286 (ii) not prepare a report described in Subsection (4) in 2018 or 2021.

287 (4) (a) In accordance with Subsection (3), on or before September 1 of the same year as  
288 the year designated in the title of an update of a nationally recognized fire code, the board shall  
289 prepare and submit a report to the Business and Labor Interim Committee that:

290 (i) states whether the board recommends the Legislature adopt the update with any  
291 modifications; and

292 (ii) describes the costs and benefits of each recommended change in the update or in  
293 any modification.

294 (b) After the Business and Labor Interim Committee receives the report described in  
295 Subsection (4)(a), the Business and Labor Interim Committee shall:

296 (i) study the recommendations during the remainder of the interim; and

297 (ii) if the Business and Labor Interim Committee decides to recommend legislative  
298 action to the Legislature, prepare legislation for consideration by the Legislature in the next  
299 general session.

300 [~~(3)~~] (5) (a) (i) The board shall, by no later than November 30 of each year in which the  
301 board is not required to submit a report described in Subsection (4), recommend in a report to  
302 the Business and Labor Interim Committee whether the Legislature should[~~-(i)~~] amend or  
303 repeal one or more provisions of the State Fire Code[~~;-or~~].

304 [~~(ii) in a year of a regularly scheduled update of a nationally recognized fire code,~~

305 ~~adopt with any modifications the nationally recognized fire code.]~~

306 (ii) As part of a recommendation described in Subsection (5)(a)(i), the board shall  
307 describe the costs and benefits of each proposed amendment or repeal.

308 (b) The board may recommend legislative action related to the State Fire Code:

309 (i) on its own initiative; or

310 (ii) upon the receipt of a request by a city, county, or fire protection district that the  
311 board recommend legislative action related to the State Fire Code.

312 (c) Within 45 days after ~~[receipt of]~~ the day on which the board receives a request  
313 under Subsection ~~[(3)]~~ (5)(b), the board shall direct the division to convene an informal hearing  
314 concerning the request.

315 (d) The board shall conduct a hearing under this section in accordance with the rules of  
316 the board.

317 (e) The board shall decide whether to include the request in the report ~~[required under]~~  
318 described in Subsection ~~[(3)]~~ (5)(a) ~~[whether to recommend the legislative action raised by a~~  
319 request].

320 (f) (i) Within 15 days ~~[following the completion of a hearing of the board under this~~  
321 Subsection (3), the board] after the day on which the board conducts a hearing, the board shall  
322 direct the division to notify the entity that made the request of the board's decision regarding  
323 the request.

324 (ii) The division shall provide the notice:

325 ~~[(i)]~~ (A) in writing; and

326 ~~[(ii)]~~ (B) in a form prescribed by the board.

327 ~~[(4)]~~ (g) If the Business and Labor Interim Committee decides to recommend  
328 legislative action to the Legislature, the Business and Labor Interim Committee shall prepare  
329 legislation for consideration by the Legislature in the next general session that, if passed by the  
330 Legislature, would~~[(a) adopt a new State Fire Code in its entirety; or (b)]~~ amend or repeal one  
331 or more provisions of the State Fire Code.

332 ~~[(5)]~~ (6) (a) Notwithstanding ~~[Subsection (3)]~~ the provisions of this section, the board  
333 may, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, amend a  
334 State Fire Code if the board determines that waiting for legislative action in the next general  
335 legislative session would:

336 (i) cause an imminent peril to the public health, safety, or welfare; or

337 (ii) place a person in violation of federal or other state law.

338 (b) If the board amends a State Fire Code in accordance with this Subsection [~~(5)~~] (6),  
339 the board shall:

340 (i) publish the State Fire Code with the amendment; and

341 (ii) notify the Business and Labor Interim Committee of the adoption, including a copy  
342 of an analysis by the board identifying specific reasons and justifications for its findings.

343 (c) If not formally adopted by the Legislature at [~~its~~] the next annual general session, an  
344 amendment to a State Fire Code adopted under this Subsection [~~(5)~~] (6) is repealed on the July  
345 1 immediately following the next annual general session that follows the adoption of the  
346 amendment.

347 [~~(6)~~] (7) (a) [~~A~~] Except as provided in Subsection (7)(b), a legislative body of a  
348 political subdivision may enact an ordinance in the political subdivision's fire code that is more  
349 restrictive [~~in its fire code requirements~~] than the State Fire Code:

350 (i) in order to meet a public safety need of the political subdivision; and

351 (ii) subject to the requirements of [~~this~~] Subsection [~~(6)~~] (7)(c).

352 (b) Except as provided in Subsections (7)(c), (10), (11), and (12), or as expressly  
353 provided in state law, a political subdivision may not, after December 1, 2016, enact or enforce  
354 a rule or ordinance that applies to a structure built in accordance with the International  
355 Residential Code as adopted in the State Construction Code, that is more restrictive than the  
356 State Fire Code.

357 (c) A political subdivision may adopt:

358 (i) the appendices of the International Fire Code, 2015 edition; and

359 (ii) a fire sprinkler ordinance in accordance with Section 15A-5-203.

360 [~~(b)~~] (d) A legislative body of a political subdivision that enacts an ordinance under  
361 [~~this section on or after July 1, 2010~~] Subsection (7)(a) shall:

362 (i) notify the board in writing at least 30 days before the day on which the legislative  
363 body enacts the ordinance and include in the notice a statement as to the proposed subject  
364 matter of the ordinance; and

365 (ii) after the legislative body enacts the ordinance, report to the board before the board  
366 makes the report required under Subsection [~~(6)(c)~~] (7)(e), including providing the board:

- 367 (A) a copy of the ordinance enacted under this Subsection [~~(6)~~] (7); and
- 368 (B) a description of the public safety need that is the basis of enacting the ordinance.
- 369 [~~(e)~~] (e) The board shall submit to the Business and Labor Interim Committee each
- 370 year with the recommendations submitted in accordance with Subsection [~~(3)~~] (4):
- 371 (i) a list of the ordinances enacted under this Subsection [~~(6)~~] (7) during the fiscal year
- 372 immediately [~~proceeding~~] preceding the report; and
- 373 (ii) recommendations, if any, for legislative action related to an ordinance enacted
- 374 under this Subsection [~~(6)~~] (7).
- 375 [~~(f)~~] (f) (i) The state fire marshal shall keep an indexed copy of an ordinance enacted
- 376 under this Subsection [~~(6)~~] (7).
- 377 (ii) The state fire marshal shall make a copy of an ordinance enacted under this
- 378 Subsection [~~(6)~~] (7) available on request.
- 379 [~~(g)~~] (g) The board may make rules in accordance with Title 63G, Chapter 3, Utah
- 380 Administrative Rulemaking Act, to establish procedures for a legislative body of a political
- 381 subdivision to follow to provide the notice and report required under this Subsection [~~(6)~~] (7).
- 382 (8) Except as provided in Subsections (9), (10), (11), and (12), or as expressly provided
- 383 in state law, a state executive branch entity may not, after December 1, 2016, adopt or enforce a
- 384 rule or requirement that:
- 385 (a) is more restrictive than the State Fire Code; and
- 386 (b) applies to detached one- and two-family dwellings and townhouses not more than
- 387 three stories above grade plane in height with a separate means of egress and their accessory
- 388 structures.
- 389 (9) A state government entity may adopt a rule or requirement regarding a residential
- 390 occupancy that is regulated by:
- 391 (a) the State Fire Prevention Board;
- 392 (b) the Department of Health; or
- 393 (c) the Department of Human Services.
- 394 (10) A state executive branch entity or political subdivision of the state may enforce a
- 395 federal law or regulation.
- 396 (11) A state executive branch entity or political subdivision of the state may adopt or
- 397 enforce a rule, ordinance, or requirement if the rule, ordinance, or requirement applies only to a

398 facility or construction owned or used by a state entity or a political subdivision of the state.

399 (12) A state executive branch entity or a political subdivision of the state may enforce a  
400 rule, ordinance, or requirement:

401 (a) that the state executive branch entity or political subdivision adopted or made  
402 effective before July 1, 2016; and

403 (b) for which the state executive branch entity or political subdivision can demonstrate,  
404 with substantial evidence, that the rule, ordinance, or requirement is necessary to protect an  
405 individual from a condition likely to cause imminent injury or death.

406 Section 3. Section **15A-2-102** is amended to read:

407 **15A-2-102. Definitions.**

408 As used in this chapter and Chapter 3, Statewide Amendments Incorporated as Part of  
409 State Construction Code, and Chapter 4, Local Amendments Incorporated as Part of State  
410 Construction Code:

411 (1) "HUD Code" means the Federal Manufactured Housing Construction and Safety  
412 Standards Act, as issued by the Department of Housing and Urban Development and published  
413 in 24 C.F.R. Parts 3280 and 3282 (as revised April 1, 1990).

414 (2) "IBC" means the edition of the International Building Code adopted under Section  
415 [15A-2-103](#).

416 (3) "IEBC" means the edition of the International Existing Building Code adopted  
417 under Section [15A-2-103](#).

418 [~~(3)~~] (4) "IECC" means the edition of the International Energy Conservation Code  
419 adopted under Section [15A-2-103](#).

420 [~~(4)~~] (5) "IFGC" means the edition of the International Fuel Gas Code adopted under  
421 Section [15A-2-103](#).

422 [~~(5)~~] (6) "IMC" means the edition of the International Mechanical Code adopted under  
423 Section [15A-2-103](#).

424 [~~(6)~~] (7) "IPC" means the edition of the International Plumbing Code adopted under  
425 Section [15A-2-103](#).

426 [~~(7)~~] (8) "IRC" means the edition of the International Residential Code adopted under  
427 Section [15A-2-103](#).

428 [~~(8)~~] (9) "NEC" means the edition of the National Electrical Code adopted under

429 Section [15A-2-103](#).

430 ~~[(9)]~~ (10) "UWUI" means the edition of the Utah Wildland Urban Interface Code  
431 adopted under Section [15A-2-103](#).

432 Section 4. Section **15A-2-103** is amended to read:

433 **15A-2-103. Specific editions adopted of construction code of a nationally**  
434 **recognized code authority.**

435 (1) Subject to the other provisions of this part, the following construction codes are  
436 incorporated by reference, and together with the amendments specified in Chapter 3, Part 3,  
437 Statewide Amendments to International Plumbing Code, and Chapter 4, Local Amendments  
438 Incorporated as Part of State Construction Code, are the construction standards to be applied to  
439 building construction, alteration, remodeling, and repair, and in the regulation of building  
440 construction, alteration, remodeling, and repair in the state:

441 (a) the ~~[2012]~~ 2015 edition of the International Building Code, including Appendix J,  
442 issued by the International Code Council;

443 (b) the ~~[2012]~~ 2015 edition of the International Residential Code, issued by the  
444 International Code Council;

445 (c) the ~~[2012]~~ 2015 edition of the International Plumbing Code, issued by the  
446 International Code Council;

447 (d) the ~~[2012]~~ 2015 edition of the International Mechanical Code, issued by the  
448 International Code Council;

449 (e) the ~~[2012]~~ 2015 edition of the International Fuel Gas Code, issued by the  
450 International Code Council;

451 (f) the ~~[2011]~~ 2014 edition of the National Electrical Code, issued by the National Fire  
452 Protection Association;

453 (g) the ~~[2012]~~ 2015 edition of the International Energy Conservation Code, issued by  
454 the International Code Council;

455 (h) the 2015 edition of the International Existing Building Code, issued by the  
456 International Code Council;

457 ~~[(h)]~~ (i) subject to Subsection [15A-2-104\(2\)](#), the HUD Code;

458 ~~[(i)]~~ (j) subject to Subsection [15A-2-104\(1\)](#), Appendix E of the ~~[2012]~~ 2015 edition of  
459 the International Residential Code, issued by the International Code Council; and

460 [fj] (k) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model  
461 Manufactured Home Installation Standard, issued by the National Fire Protection Association.

462 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire  
463 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,  
464 issued by the International Code Council, with the alternatives or amendments approved by the  
465 Utah Division of Forestry, as a construction code that may be adopted by a local compliance  
466 agency by local ordinance or other similar action as a local amendment to the codes listed in  
467 this section.

468 Section 5. Section 15A-2-104 is amended to read:

469 **15A-2-104. Installation standards for manufactured housing.**

470 (1) The following are the installation standards for manufactured housing for new  
471 installations or for existing manufactured or mobile homes that are subject to relocation,  
472 building alteration, remodeling, or rehabilitation in the state:

473 (a) The manufacturer's installation instruction for the model being installed is the  
474 primary standard.

475 (b) If the manufacturer's installation instruction for the model being installed is not  
476 available or is incomplete, the following standards apply:

477 (i) Appendix E of the [2012] 2015 edition of the IRC, as issued by the International  
478 Code Council for installations defined in Section AE101 of Appendix E; or

479 (ii) if an installation is beyond the scope of the [2012] 2015 edition of the IRC as  
480 defined in Section AE101 of Appendix E, the 2005 edition of the NFPA 225 Model  
481 Manufactured Home Installation Standard, issued by the National Fire Protection Association.

482 (c) A manufacturer, dealer, or homeowner is permitted to design for unusual  
483 installation of a manufactured home not provided for in the manufacturer's standard installation  
484 instruction, Appendix E of the [2012] 2015 edition of the IRC, or the 2005 edition of the  
485 NFPA 225, if the design is approved in writing by a professional engineer or architect licensed  
486 in Utah.

487 (d) For a mobile home built before June 15, 1976, the mobile home shall also comply  
488 with the additional installation and safety requirements specified in Chapter 3, Part 8,  
489 Installation and Safety Requirements for Mobile Homes Built Before June 15, 1976.

490 (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed

491 in the state that does not meet the local snow load requirements as specified in Chapter 3, Part  
492 2, Statewide Amendments to International Residential Code, except that the manufactured  
493 home shall have a protective structure built over the home that meets the IRC and the snow  
494 load requirements under Chapter 3, Part 2, Statewide Amendments to International Residential  
495 Code.

496 Section 6. Section **15A-3-102** is amended to read:

497 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

498 (1) IBC, Section 106, is deleted.

499 (2) [(a)] In IBC, Section 110, a new section is added as follows: "[~~H0.3.5~~] 110.3.5.1,  
500 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant  
501 exterior wall envelope as required by Section 1403.2, and flashing as required by Section  
502 1405.4 to prevent water from entering the weather-resistive barrier."

503 [~~(b) The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6,  
504 Lath or gypsum board inspection; 110.3.7, Fire- and smoke-resistant penetrations; 110.3.8,  
505 Energy efficiency inspections; 110.3.9, Other inspections; 110.3.10, Special inspections; and  
506 110.3.11, Final inspection.]~~

507 (3) IBC, Section 115.1, is deleted and replaced with the following: "115.1 Authority.  
508 Whenever the building official finds any work regulated by this code being performed in a  
509 manner either contrary to the provisions of this code or other pertinent laws or ordinances or is  
510 dangerous or unsafe, the building official is authorized to stop work."

511 (4) In IBC, Section 202, the following definition is added for Ambulatory Surgical  
512 Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed  
513 by the Utah Department of Health where procedures are performed that may render patients  
514 incapable of self preservation where care is less than 24 hours. See Utah Administrative Code  
515 R432-13."

516 (5) In IBC, Section 202, the definition for Foster Care Facilities is modified by  
517 changing the word "Foster" to "Child."

518 (6) In IBC, Section 202, the definition for "[F]Record Drawings" is modified by  
519 deleting the words "a fire alarm system" and replacing them with "any fire protection system".

520 (7) In IBC, Section 202, the following definition is added for Residential  
521 Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT

522 ASSISTED LIVING FACILITY. See Section 308.1.2."

523 (8) In IBC, Section 202, the following definition is added for Type I Assisted Living  
524 Facility: "TYPE I ASSISTED LIVING FACILITY. See Section 308.1.2."

525 (9) In IBC, Section 202, the following definition is added for Type II Assisted Living  
526 Facility: "TYPE II ASSISTED LIVING FACILITY. See Section 308.1.2."

527 [~~(10)~~] In the list in IBC, Section 304.1, the following words are added after the words  
528 "Ambulatory care facilities": "where four or more care recipients are rendered incapable of self  
529 preservation."

530 [~~(11)~~] (10) In IBC, Section 305.2, the words "child care centers," are inserted after the  
531 word "supervision," and the following sentence is added at the end of the paragraph: "See  
532 Section 425 for special requirements for Day Care."

533 [~~(12)~~] (11) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced  
534 with the word "four" in both places.

535 [~~(13)~~] (12) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child Day Care --  
536 Residential Certificate or a Family License. Areas used for child day care purposes with a  
537 Residential Certificate R430-50 or a Family License, as defined in Utah Administrative Code,  
538 R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as  
539 provided in Section 310.5 or shall comply with the International Residential Code in  
540 accordance with Section R101.2."

541 [~~(14)~~] (13) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child Care  
542 Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code,  
543 R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of  
544 School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as  
545 accessory occupancies."

546 (14) In IBC, Table 307.1(1), footnote "d" is added to the row for Consumer fireworks  
547 in the column titled STORAGE - Solid Pounds (cubic feet).

548 (15) In IBC, Section 308.2, the word "FOSTER" is deleted and replaced with  
549 "CHILD."

550 [~~(16)~~] (16) A new IBC Section 308.2.1 is added as follows: "308.2.1 Assisted living  
551 facilities and related occupancies. The following words and terms shall, for the purposes of  
552 this section and as used elsewhere in this code, have the meanings shown herein.

553 TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah  
 554 Department of Health that provides a protected living arrangement for ambulatory,  
 555 non-restrained persons who are capable of achieving mobility sufficient to exit the facility  
 556 without the assistance of another person.

557 Occupancies. Limited capacity, type I assisted living facilities with two to five residents shall  
 558 be classified as R-3 occupancies. Small, type I assisted living facilities with six to sixteen  
 559 residents shall be classified as R-4 occupancies. Large, type I assisted living facilities with  
 560 over sixteen residents shall be classified as I-1 occupancies.

561 TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Utah  
 562 Department of Health that provides an array of coordinated supportive personal and health care  
 563 services to residents who meet the definition of semi-independent.

564 Semi-Independent. A person who is:

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

566 B. Cognitively impaired or physically disabled but able to evacuate from the facility with the  
 567 physical assistance of one person.

568 Occupancies. Limited capacity, type II assisted living facilities with two to five residents shall  
 569 be classified as R-4 occupancies. Small, type II assisted living facilities with six to sixteen  
 570 residents shall be classified as I-1 occupancies. Large, type II assisted living facilities with  
 571 over sixteen residents shall be classified as I-2 occupancies.

572 RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential  
 573 treatment/support assisted living facility which creates a group living environment for four or  
 574 more residents licensed by the Utah Department of Human Services, and provides a protected  
 575 living arrangement for ambulatory, non-restrained persons who are capable of achieving  
 576 mobility sufficient to exit the facility without the physical assistance of another person."

577 [~~(16)~~] (17) In IBC, Section 308.3, the words "(see Section 308.2.1)" are added after the  
 578 words "assisted living facilities[<sup>4</sup>]."

579 [~~(17)~~] (18) In IBC, Section [~~308.3.1~~] 308.3.4, all of the words after the first  
 580 International Residential Code are deleted.

581 [~~(18)~~] (19) In IBC, Section 308.4, the following changes are made:

582 (a) The words "five persons" are deleted and replaced with the words "three persons."

583 (b) The words "foster care facilities" are deleted and replaced with "child care

584 facilities."

585 (c) The words "(both intermediate care facilities and skilled nursing facilities)" are  
586 added after "nursing homes."

587 [~~(d)~~ The words "Ambulatory Surgical Centers with five or more operating rooms" are  
588 added to the list.]

589 [(19)] (20) In IBC, Section [~~308.4.1~~] 308.4.2, the word "five" is deleted and replaced  
590 with the word "three" in both places.

591 [(20)] (21) In IBC, Section 308.6, the word "five" is deleted and replaced with the  
592 word "four[<sup>u</sup>]."

593 [(21)] (22) In IBC, Section 308.6.1, the following changes are made:

594 (a) The word "five" is deleted and replaced with the word "four[<sup>u</sup>]."

595 (b) The words "2-1/2 years or less of age" are deleted and replaced with "under the age  
596 of two[<sup>u</sup>]."

597 (c) The following sentence is added at the end: "See Section [~~425~~] 427 for special  
598 requirements for Day Care."

599 [(22)] (23) In IBC, Sections 308.6.3 and 308.6.4, the word "five" is deleted and  
600 replaced with the word "four" in both places and the following sentence is added at the end:  
601 "See Section [~~425~~] 427 for special requirements for Day Care."

602 [(23)] (24) In IBC, Section 310.5, the words "and single family dwellings complying  
603 with the IRC" are added after "Residential occupancies[<sup>u</sup>]."

604 [(24)] (25) In IBC, Section 310.5.1, the words "other than Child Care" are inserted  
605 after the word "dwelling" in the first sentence and the following sentence is added at the end:  
606 "See Section [~~425~~] 427 for special requirements for Child Day Care."

607 [(25)] (26) A new IBC Section [~~310.5.2~~] 310.5.3 is added as follows: "[~~310.5.2~~]  
608 310.5.3 Child Care. Areas used for child care purposes may be located in a residential  
609 dwelling unit under all of the following conditions and Section [~~425~~] 427:

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

612 2. Use is approved by the Utah Department of Health, as enacted under the authority of the  
613 Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following  
614 categories:

- 615 a. Utah Administrative Code, R430-50, Residential Certificate Child Care.
- 616 b. Utah Administrative Code, R430-90, Licensed Family Child Care.

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

618 [~~(26)~~] (27) In IBC, Section 310.6, the words "(see Section 308.2.1)" are added after  
619 "assisted living facilities[<sup>2</sup>]."

620 Section 7. Section **15A-3-103** is amended to read:

621 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

622 (1) IBC Section 403.5.5 is deleted.

623 [~~(2)~~] IBC Section (F)406.5.8 is deleted and replaced with the following: "(F)406.5.8

624 Standpipe system. An open parking garage shall be equipped with an approved Class I manual

625 standpipe system when fire department access is not provided for firefighting operations to

626 within 150 feet of all portions of the open parking garage as measured from the approved fire

627 department vehicle access:]

628 [Exception: Open parking garages equipped throughout with an automatic sprinkler system in

629 accordance with Section 903.3.1.1 and a standpipe system is not required by Section 905.3.1."]

630 [~~(3)~~] A new IBC Section (F)406.5.8.1 is added as follows: "(F)406.5.8.1 Installation

631 requirements. Class I manual standpipe shall be designed and installed in accordance with

632 Section 905 and NFPA 14. Class I manual standpipe shall be accessible throughout the

633 parking garage such that all portions of the parking structure are protected within 150 feet of a

634 hose connection."

635 [~~(4)~~] (2) In IBC, Section 422.2, a new paragraph is added as follows: "422.2

636 Separations: Ambulatory care facilities licensed by the Utah Department of Health shall be

637 separated from adjacent tenants with a fire [~~barrier~~] partition having a minimum one hour

638 fire-resistance rating. Any level below the level of exit discharge shall be separated from the

639 level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance

640 rating.

641 Exception: A fire barrier is not required to separate the level of exit discharge when:

642 1. Such levels are under the control of the Ambulatory Care Facility.

643 2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour

644 fire-resistance rating."

645 [~~(5)~~] (3) A new IBC Section [~~425~~] 427, Day Care, is added as follows:

646 "[~~425.1~~] 427.1 Detailed Requirements. In addition to the occupancy and construction  
647 requirements in this code, the additional provisions of this section shall apply to all Day Care in  
648 accordance with Utah Administrative Code R710-8 Day Care Rules.

649 [~~425.2~~] 427.2 Definitions.

650 [~~425.2.1~~] 427.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized  
651 deputies, or the local fire enforcement authority code official.

652 [~~425.2.2~~] 427.2.2 Day Care Facility: Any building or structure occupied by clients of any age  
653 who receive custodial care for less than 24 hours by individuals other than parents, guardians,  
654 relatives by blood, marriage or adoption.

655 [~~425.2.3~~] 427.2.3 Day Care Center: Providing care for five or more clients in a place other than  
656 the home of the person cared for. This would also include Child Care Centers, Out of School  
657 Time or Hourly Child Care Centers licensed by the Department of Health.

658 [~~425.2.4~~] 427.2.4 Family Day Care: Providing care for clients listed in the following two  
659 groups:

660 [~~425.2.4.1~~] 427.2.4.1 Type 1: Services provided for five to eight clients in a home. This would  
661 also include a home that is certified by the Department of Health as Residential Certificate  
662 Child Care or licensed as Family Child Care.

663 [~~425.2.4.2~~] 427.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with  
664 sufficient staffing. This would also include a home that is licensed by the Department of  
665 Health as Family Child Care.

666 [~~425.2.5~~] 427.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted  
667 under the authority of the Utah Fire Prevention Board.

668 [~~425.3~~] 427.3 Family Day Care.

669 [~~425.3.1~~] 427.3.1 Family Day Care units shall have on each floor occupied by clients, two  
670 separate means of egress, arranged so that if one is blocked the other will be available.

671 [~~425.3.2~~] 427.3.2 Family Day Care units that are located in the basement or on the second story  
672 shall be provided with two means of egress, one of which shall discharge directly to the  
673 outside.

674 [~~425.3.2.1~~] 427.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with  
675 five to eight clients in a home, located on the ground level or in a basement, may use an  
676 emergency escape or rescue window as allowed in IFC, Chapter 10, Section [~~1029~~] 1030.

677 [425.3.3] 427.3.3 Family Day Care units shall not be located above the second story.

678 [425.3.4] 427.3.4 In Family Day Care units, clients under the age of two shall not be located  
679 above or below the first story.

680 [425.3.4.1] 427.3.4.1 Clients under the age of two may be housed above or below the first story  
681 where there is at least one exit that leads directly to the outside and complies with IFC, Section  
682 [1009] 1011 or Section [1010] 1012 or Section [1026] 1027.

683 [425.3.5] 427.3.5 Family Day Care units located in split entry/split level type homes in which  
684 stairs to the lower level and upper level are equal or nearly equal, may have clients housed on  
685 both levels when approved by the AHJ.

686 [425.3.6] 427.3.6 Family Day Care units shall have a portable fire extinguisher on each level  
687 occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be  
688 serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

689 [425.3.7] 427.3.7 Family Day Care units shall have single station smoke detectors in good  
690 operating condition on each level occupied by clients. Battery operated smoke detectors shall  
691 be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure  
692 continued operation of the smoke detectors.

693 [425.3.8] 427.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,  
694 shall have at least one window or door approved for emergency escape.

695 [425.3.9] 427.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall  
696 include the complete evacuation from the building of all clients and staff. At least annually, in  
697 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape  
698 or rescue window, if one is used as a substitute for one of the required means of egress.

699 [425.4] 427.4 Day Care Centers.

700 [425.4.1] 427.4.1 Day Care Centers shall comply with either I-4 requirements or E  
701 requirements of the IBC, whichever is applicable for the type of Day Care Center.

702 [425.4.2] 427.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter  
703 4, Section 405.

704 [425.4.3] 427.4.3 Location at grade. Group E child day care centers shall be located at the  
705 level of exit discharge.

706 [425.4.3.1] 427.4.3.1 Child day care spaces for children over the age of 24 months may be  
707 located on the second floor of buildings equipped with automatic fire protection throughout

708 and an automatic fire alarm system.

709 [~~425.4.4~~] 427.4.4 Egress. All Group E child day care spaces with an occupant load of more  
710 than 10 shall have a second means of egress. If the second means of egress is not an exit door  
711 leading directly to the exterior, the room shall have an emergency escape and rescue window  
712 complying with Section [~~1029~~] 1030.

713 [~~425.4.5~~] 427.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative  
714 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of  
715 School Time.

716 [~~425.5~~] 427.5 Requirements for all Day Care.

717 [~~425.5.1~~] 427.5.1 Heating equipment in spaces occupied by children shall be provided with  
718 partitions, screens, or other means to protect children from hot surfaces and open flames.

719 [~~425.5.2~~] 427.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All  
720 staff shall be trained on the fire escape plan and procedure."

721 [~~(6)~~] (4) In IBC, Section [~~504.2~~] 504.4, a new section is added as follows: [~~"504.2.1~~]  
722 "504.4.1 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities  
723 shall be allowed [~~to be two stories of~~] on each level of a two-story building of Type V-A  
724 construction when all of the following apply:

- 725 1. All secured units are located at the level of exit discharge in compliance with Section  
726 [~~1008.1.9.3~~] 1010.1.9.3 as amended;
- 727 2. The total combined area of both stories shall not exceed the total allowable area for a  
728 one-story building; and
- 729 3. All other provisions that apply in Section 407 have been provided."

730 Section 8. Section **15A-3-104** is amended to read:

731 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

732 (1) IBC, Section (F)901.8, is deleted and replaced with the following: "(F)901.8 Pump  
733 and riser room size. Fire pump and automatic sprinkler system riser rooms shall be designed  
734 with adequate space for all installed equipment necessary for the installation and to provide  
735 sufficient working space around the stationary equipment. Clearances around equipment shall  
736 be in accordance with manufacturer requirements and not less than the following minimum  
737 elements:

738 901.8.1 A minimum clear and unobstructed distance of 12-inches shall be provided from the

739 installed equipment to the elements of permanent construction.

740 901.8.2 A minimum clear and unobstructed distance of 12-inches shall be provided between  
741 all other installed equipment and appliances.

742 901.8.3 A clear and unobstructed width of 36-inches shall be provided in front of all installed  
743 equipment and appliances, to allow for inspection, service, repair or replacement without  
744 removing such elements of permanent construction or disabling the function of a required  
745 fire-resistance-rated assembly.

746 901.8.4 Automatic sprinkler system riser rooms shall be provided with a clear and  
747 unobstructed passageway to the riser room of not less than 36-inches, and openings into the  
748 room shall be clear and unobstructed, with doors swinging in the outward direction from the  
749 room and the opening providing a clear width of not less than 34-inches and a clear height of  
750 the door opening shall not be less than 80-inches.

751 901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the  
752 fire pump room of not less than 72-inches, and openings into the room shall be clear,  
753 unobstructed and large enough to allow for the removal of the largest piece of equipment, with  
754 doors swinging in the outward direction from the room and the opening providing a clear width  
755 of not less than 68-inches and a clear height of the door opening shall not be less than  
756 80-inches."

757 (2) In IBC, Section (F)903.2.2, the words "the entire floor" are deleted and replaced  
758 with "a building" and the last paragraph is deleted.

759 (3) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the following: "2.  
760 A Group F-1 fire area is located more than three stories above the lowest level of fire  
761 department vehicle access."

762 (4) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the following: "2.  
763 A Group M fire area is located more than three stories above the lowest level of fire department  
764 vehicle access."

765 (5) IBC, Sections (F)903.2.8, (F)903.2.8.1, [~~and~~] (F)903.2.8.2, and (F)903.2.8.4, are  
766 deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system  
767 installed in accordance with Section 903.3 shall be provided throughout all buildings with a  
768 Group R fire area.

769 Exceptions:

770 1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses)  
771 constructed in accordance with the International Residential Code For One- and Two-Family  
772 Dwellings.

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

776 (6) IBC, Sections (F)903.2.8.3 and (F)903.2.8.3.1, are renumbered to (F)903.2.8.1 and  
777 (F)903.2.8.1.1.

778 (7) IBC, Section (F)903.2.8.3.2, is renumbered to (F)903.2.8.1.2 and the following  
779 exception is added:

780 [3:] "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing  
781 more than 16 residents, provided the building is equipped throughout with an approved fire  
782 alarm system that is interconnected and receives its primary power from the building wiring  
783 and a commercial power system."

784 (8) IBC, Section (F)903.2.8.4, is deleted.

785 [~~6~~] (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the  
786 following: "2. A Group S-1 fire area is located more than three stories above the lowest level  
787 of fire department vehicle access."

788 [~~7~~] (10) IBC, Section [~~(F)904.11~~] (F)904.12, is deleted and replaced with the  
789 following: "[~~(F)904.11~~] (F)904.12 Commercial cooking systems. The automatic  
790 fire-extinguishing system for commercial cooking systems shall be of a type recognized for  
791 protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic  
792 extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the  
793 intended application. The system shall be installed in accordance with this code, its listing and  
794 the manufacturer's installation instructions.

795 Exception: Factory-built commercial cooking recirculating systems that are tested in  
796 accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of  
797 the International Mechanical Code."

798 [~~8~~] (11) IBC, Sections [~~(F)904.11.3, (F)904.11.3.1, (F)904.11.4, and (F)904.11.4.1;~~  
799 (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1, are deleted.

800 (12) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as follows:

801 "Open Parking Garages. Open parking garages shall be equipped with an approved  
 802 Class 1 manual standpipe system when fire department access is not provided for firefighting  
 803 operations to within 150 feet of all portions of the open parking garage as measured from the  
 804 approved fire department vehicle access. Class 1 manual standpipe shall be accessible  
 805 throughout the parking garage such that all portions of the parking structure are protected  
 806 within 150 feet of a hose connection."

807 (13) In IBC, Section (F)905.8, the exception is deleted and replaced with the following:

808 "Exception: Where subject to freezing and approved by the fire code official."

809 ~~[(9)] (14) In IBC, Section (F)907.2.3 Group E[-(a) The], the~~ first sentence is deleted  
 810 and rewritten as follows: "A manual fire alarm system that ~~[initiates]~~ activates the occupant  
 811 notification system in accordance with Section (F)907.5 ~~[and]~~ shall be installed, in accordance  
 812 with Section (F)907.6 ~~[shall be installed]~~ and administrative rules made by the State Fire  
 813 Prevention Board in Group E occupancies."

814 ~~[(b) In Exception number 3, starting on line five, the words "emergency voice/alarm~~  
 815 ~~communication system" are deleted and replaced with "occupant notification system".]~~

816 ~~[(10) In IBC, Section (F)908.7, the first sentence is deleted and replaced as follows:~~  
 817 ~~"Groups R-1, R-2, R-3, R-4, I-1, and I-4 occupancies"; the exceptions are deleted and the~~  
 818 ~~following sentence is added after the first sentence: "A minimum of one carbon monoxide~~  
 819 ~~alarm shall be installed on each habitable level."]~~

820 ~~[(11) In IBC, Section (F)908.7, the following new subsections are added:]~~

821 ~~["(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be~~  
 822 ~~installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be~~  
 823 ~~interconnected in such a manner that the activation of one alarm will activate all of the alarms.~~  
 824 ~~Physical interconnection of carbon monoxide alarms shall not be required where listed wireless~~  
 825 ~~alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be~~  
 826 ~~clearly audible in all bedrooms over background noise levels with all intervening doors closed.]~~

827 ~~[(F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive~~  
 828 ~~their primary power from the building wiring where such wiring is served from a commercial~~  
 829 ~~source and shall be equipped with a battery backup. Carbon monoxide alarms with integral~~  
 830 ~~strobes that are not equipped with battery backup shall be connected to an emergency electrical~~  
 831 ~~system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall~~

832 ~~be permanent and without a disconnecting switch other than as required for overcurrent~~  
833 ~~protection.]~~

834 [~~Exception: Carbon monoxide alarms are not required to be equipped with battery backup~~  
835 ~~where they are connected to an emergency electrical system."]~~

836 [~~(12) IBC, Section (F)908.7.1, is renumbered to 908.7.3.]~~

837 (15) IBC, Sections (F)915 through (F)915.6, are deleted and replaced with the  
838 following:

839 "(F)915 Where required.

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

848 (F)915.1 Interconnection.

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

855 (F)915.2 Power Source.

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

862 Exceptions.

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

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

869 (F)915.3 Group E.

870 A carbon monoxide detection system shall be installed in new buildings that contain Group E  
871 occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection  
872 system shall be installed in existing buildings that contain Group E occupancies in accordance  
873 with IFC, Chapter 11, Section 1103.9.

874 (F)915.3.1 Where required.

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

877 (F)915.3.2 Detection equipment.

878 Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and  
879 the manufacturer's instructions and be listed as complying with, for single station detectors, UL  
880 2034 and, for system detectors, UL 2075.

881 (F)915.3.3 Locations.

882 Each carbon monoxide detection system shall be installed in the locations specified in NFPA  
883 720.

884 (F)915.3.4 Combination detectors.

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

888 (F)915.3.5 Power source.

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

893 (F)915.3.6 Maintenance.

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

897 Section 9. Section **15A-3-105** is amended to read:

898 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

899 (1) In IBC, Section [~~1008.1.9.6~~, the words "Group I-1 and" are added in the title and in  
900 the first sentence before the words "Group I-2" and] 1010.1.9.6, a new number [8] 9 is added as  
901 follows: "[8] 9. The secure area or unit with special egress locks shall be located at the level of  
902 exit discharge in Type V construction."

903 [~~(2) In IBC, Section 1008.1.9.7, a new number 7 is added as follows: "7. The secure~~  
904 ~~area or unit with delayed egress locks shall be located at the level of exit discharge in Type V~~  
905 ~~construction."~~]

906 [~~(3)~~] (2) In IBC, Section [~~1009.7.2~~] 1011.5.2, exception [5] 3 is deleted and replaced  
907 with the following: "[5] 3. In Group R-3 occupancies, within dwelling units in Group R-2  
908 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or  
909 accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height  
910 shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The  
911 minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum  
912 winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but  
913 not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the  
914 tread depth is less than 10 inches (254 mm)."

915 [~~(4)~~] (3) In IBC, Section [~~1009.15~~] 1011.11, a new exception [6] 5 is added as follows:  
916 "[6] 5. In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in  
917 Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2,  
918 handrails shall be provided on at least one side of stairways consisting of four or more risers."

919 [~~(5)~~] (4) In IBC, Section [~~1011.5~~] 1013.5, the words ", including when the building  
920 may not be fully occupied[-]" are added at the end of the sentence.

921 [~~(6)~~] (5) IBC, Section [~~1024~~] 1025, is deleted.

922 [~~(7)~~] (6) In IBC, Section [~~1028.12~~] 1029.14, exception 2 is deleted.

923 [~~(8)~~] (7) In IBC, Section 1109.8, the following words "shall be capable of operation  
924 without a key and" are inserted in the second sentence between the words "lift" and "shall".

925           ~~[(9)]~~ (8) In IBC, Section 1208.4, subparagraph 1 is deleted and replaced with the  
 926 following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m<sup>2</sup>) of  
 927 floor area. An additional 100 square feet (9.3 m<sup>2</sup>) of floor area shall be provided for each  
 928 occupant of such unit in excess of two."

929           Section 10. Section **15A-3-106** is amended to read:

930           **15A-3-106. Amendments to Chapters 13 through 15 of IBC.**

931           IBC, Chapters 13 ~~[and]~~, 14, and 15 are not amended.

932           Section 11. Section **15A-3-107** is amended to read:

933           **15A-3-107. Amendments to Chapter 16 of IBC.**

934           (1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2," a  
 935 new footnote c is added as follows: "c. Type II Assisted Living Facilities that are I-2  
 936 occupancy classifications in accordance with Section 308 shall be Risk Category II in this  
 937 table."

938           (2) In IBC, Section 1605.2, in the portion of the definition for the value of  $f_2$ , the words  
 939 "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 +$   
 940  $.025(A-5)$  for other configurations where roof snow load exceeds 30 psf;  
 941  $f_2 = 0$  for roof snow loads of 30 psf (1.44kN/m<sup>2</sup>) or less.

942           Where A = Elevation above sea level at the location of the structure (ft./1,000)."

943           (3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and  
 944 replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44  
 945 kNm<sup>2</sup>) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30  
 946 pounds per square foot (1.44 kNm<sup>2</sup>), the snow loads may be reduced in accordance with the  
 947 following in load combinations including both snow and seismic loads.  $W_s$  as calculated  
 948 below, shall be combined with seismic loads.

949            $W_s = (0.20 + 0.025(A-5))P_f$  is greater than or equal to  $0.20 P_f$ .

950           Where:

951            $W_s$  = Weight of snow to be included in seismic calculations

952           A = Elevation above sea level at the location of the structure (ft./1,000)

953            $P_f$  = Design roof snow load, psf.

954           For the purpose of this section, snow load shall be assumed uniform on the roof footprint  
 955 without including the effects of drift or sliding. The Importance Factor, I, used in calculating  $P_f$

956 may be considered 1.0 for use in the formula for  $W_s$ ".

957 (4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General.  
958 Except as modified in Sections 1608.1.1, 1608.1.2, and 1608.1.3, design snow loads shall be  
959 determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less  
960 than that determined by Section 1607."

961 (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Section 7.4.5 of  
962 Chapter 7 of ASCE 7 referenced in Section 1608.1 of the IBC is deleted and replaced with the  
963 following: Section 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads exceed  
964 75 psf, eaves shall be capable of sustaining a uniformly distributed load of  $2p_f$  on all  
965 overhanging portions. No other loads except dead loads shall be present on the roof when this  
966 uniformly distributed load is applied. All building exits under down-slope eaves shall be  
967 protected from sliding snow and ice."

968 (6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow  
969 Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the jurisdictions  
970 identified in that table. Otherwise, the ground snow load,  $P_g$ , to be used in the determination of  
971 design snow loads for buildings and other structures shall be determined by using the following  
972 formula:  $P_g = (P_o^2 + S^2(A-A_o)^2)^{0.5}$  for A greater than  $A_o$ , and  $P_g = P_o$  for A less than or equal to  
973  $A_o$ .

974 WHERE:

975  $P_g$  = Ground snow load at a given elevation (psf);

976  $P_o$  = Base ground snow load (psf) from Table No. 1608.1.2(a);

977 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. 1608.1.2(a);

978 A = Elevation above sea level at the site (ft./1,000);

979  $A_o$  = Base ground snow elevation from Table 1608.1.2(a) (ft./1,000).

980 The building official may round the roof snow load to the nearest 5 psf. The ground snow  
981 load,  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits  
982 data substantiating the adjustments.

983 Where the minimum roof live load in accordance with Section [~~1607.11~~] 1607.12 is greater  
984 than the design roof snow load, such roof live load shall be used for design, however, it shall  
985 not be reduced to a load lower than the design roof snow load. Drifting need not be considered  
986 for roof snow loads less than 20 psf."

987 (7) IBC, Table 1608.1.2(a) and Table 1608.1.2(b), are added as follows:

"TABLE NO. 1608.1.2(a)				
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS				
	COUNTY	P <sub>o</sub>	S	A <sub>o</sub>
990	Beaver	43	63	6.2
991	Box Elder	43	63	5.2
992	Cache	50	63	4.5
993	Carbon	43	63	5.2
994	Daggett	43	63	6.5
995	Davis	43	63	4.5
996	Duchesne	43	63	6.5
997	Emery	43	63	6.0
998	Garfield	43	63	6.0
999	Grand	36	63	6.5
1000	Iron	43	63	5.8
1001	Juab	43	63	5.2
1002	Kane	36	63	5.7
1003	Millard	43	63	5.3
1004	Morgan	57	63	4.5
1005	Piute	43	63	6.2
1006	Rich	57	63	4.1
1007	Salt Lake	43	63	4.5
1008	San Juan	43	63	6.5
1009	Sanpete	43	63	5.2
1010	Sevier	43	63	6.0
1011	Summit	86	63	5.0
1012	Tooele	43	63	4.5
1013	Uintah	43	63	7.0

1015	Utah	43	63	4.5
1016	Wasatch	86	63	5.0
1017	Washington	29	63	6.0
1018	Wayne	36	63	6.5
1019	Weber	43	63	4.5

1020 TABLE NO. 1608.1.2(B)

1021 REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS<sup>1,2</sup>

1022 The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.

1023	County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) <sup>6</sup>
1024	Carbon	Price <sup>3</sup>	5550	43	30
		All other county locations <sup>5</sup>	--	--	--
1025	Davis	Fruit Heights <sup>3</sup>	4500 - 4850	57	40
1026	Emery	Green River <sup>3</sup>	4070	36	25
1027	Garfield	Panguitch <sup>3</sup>	6600	43	30
1028	Rich	Woodruff <sup>3</sup>	6315	57	40
		Laketown <sup>4</sup>	6000	57	40
		Garden City <sup>5</sup>	--	--	--
		Randolph <sup>4</sup>	6300	57	40
1029	San Juan	Monticello <sup>3</sup>	6820	50	35
1030	Summit	Coalville <sup>3</sup>	5600	86	60
		Kamas <sup>4</sup>	6500	114	80
1031	Tooele	Tooele <sup>3</sup>	5100	43	30
1032	Utah	Orem <sup>3</sup>	4650	43	30
		Pleasant Grove <sup>4</sup>	5000	43	30
		Provo <sup>5</sup>	--	--	--
1033	Wasatch	Heber <sup>5</sup>	--	--	--

1034	Washington	Leeds <sup>3</sup>	3460	29	20
		Santa Clara <sup>3</sup>	2850	21	15
		St. George <sup>3</sup>	2750	21	15
		All other county locations <sup>5</sup>	--	--	--
1035	Wayne	Loa <sup>3</sup>	7080	43	30
1036	<sup>1</sup> The IBC requires a minimum live load - See [ <del>1607.11.2</del> ] Section 1607.12.				
1037	<sup>2</sup> This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.				
1038	<sup>3</sup> Values adopted from Table VII of the Utah Snow Load Study.				
1039	<sup>4</sup> Values based on site-specific study. Contact local Building Official for additional information.				
1040	<sup>5</sup> Contact local Building Official.				
1041	<sup>6</sup> Based on $C_e = 1.0$ , $C_t = 1.0$ and $I_s = 1.0$ "				

1042 (8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The  
1043 value for the thermal factor,  $C_t$ , used in calculation of  $P_f$  shall be determined from Table 7.3 in  
1044 ASCE 7.

1045 Exception: Except for unheated structures, the value of  $C_t$  need not exceed 1.0 when ground  
1046 snow load,  $P_g$  is calculated using Section 1608.1.2 as amended."

1047 (9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground  
1048 Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs  
1049 in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table  
1050 1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure  
1051 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2  
1052 and for all sites within the CS areas shall be approved. Ground snow load determination for  
1053 such sites shall be based on an extreme value statistical analysis of data available in the vicinity  
1054 of the site using a value with a 2-percent annual probability of being exceeded (50-year mean  
1055 recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as  
1056 approved by the building official."

1057 (10) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 ASCE 12.7.2 and

1058 12.14.8.1 of Chapter 12 of ASCE 7 referenced in Section 1613.1, Definition of W, Item 4 is  
 1059 deleted and replaced with the following:

1060 4. Where the flat roof snow load,  $P_f$ , exceeds 30 psf, the snow load included in seismic design  
 1061 shall be calculated, in accordance with the following formula:  $W_s = (0.20 + 0.025(A-5))P_f$  is  
 1062 greater than or equal to  $0.20 P_f$ .

1063 WHERE:

1064  $W_s$  = Weight of snow to be included in seismic calculations

1065 A = Elevation above sea level at the location of the structure (ft./1,000)

1066  $P_f$  = Design roof snow load, psf.

1067 For the purposes of this section, snow load shall be assumed uniform on the roof footprint  
 1068 without including the effects of drift or sliding. The Importance Factor, I, used in calculating  $P_f$   
 1069 may be considered 1.0 for use in the formula for  $W_s$ ."

1070 (11) A new IBC, Section [~~1613.5~~] 1613.7, is added as follows: " [~~1613.5~~] 1613.7  
 1071 ASCE 7, Section 13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall  
 1072 have a sleeve or adapter through the ceiling tile to allow for free movement of at least 1 inch  
 1073 (25 mm) in all horizontal directions.

1074 Exceptions:

- 1075 1. Where rigid braces are used to limit lateral deflections.
- 1076 2. At fire sprinkler heads in frangible surfaces per NFPA 13."

1077 Section 12. Section **15A-3-108** is amended to read:

1078 **15A-3-108. Amendments to Chapters 17 through 19 of IBC.**

1079 (1) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical  
 1080 concrete foundation design. Group R, Division 3 Occupancies three stories or less in height,  
 1081 and Group U Occupancies, which are constructed in accordance with Section 2308, or with  
 1082 other methods employing repetitive wood-frame construction or repetitive cold-formed steel  
 1083 structural member construction, shall be permitted to have concrete foundations constructed in  
 1084 accordance with Table 1807.1.6.4."

1085 (2) A new IBC, Table 1807.1.6.4 is added as follows:

"TABLE 1807.1.6.4
EMPIRICAL FOUNDATION WALLS (1,7,8)

1086

1087

	Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
1088								
1089	2'(610 mm)	None	6"	(5)	2- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
1090	3'(914 mm)	None	6"	#4@32"	3- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
1091	4'(1,219 mm)	None	6"	#4@32"	4- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	3'(914 mm)	2" for each foot of opening width; min. 6"
1092	6'(1,829 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	5- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
1093	8'(2,438 mm)	Floor or roof Diaphragm (6)	8"	#4@24"	6- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
1094	9'(2,743 mm)	Floor or roof Diaphragm (6)	8"	#4@16"	7- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	6'(1,829 mm)	2" for each foot of opening width; min. 6"
1095	Over 9'(2,743 mm), Engineering required for each column							
1096	Footnotes:							
1097	(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.							
1098	(2) To be placed in the center of the wall, and extended from the footing to within three inches (76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement shall be provided in the footing, extending 24 inches (610 mm) into the foundation wall.							
1099	(3) One bar shall be located in the top four inches (102 mm), one bar in the bottom four inches (102 mm) and the other bars equally spaced between. Such bar placement satisfies the requirements of Section 1805.9. Corner reinforcing shall be provided so as to lap 24 inches (610 mm).							

1100	(4) Bars shall be placed within two inches (51 mm) of the openings and extend 24 inches (610 mm) beyond the edge of the opening; vertical bars may terminate three inches (76 mm) from the top of the concrete.
1101	(5) Dowels of #4 bar at 32 inches on center shall be provided in the footing, extending 18 inches (457 mm) into the foundation wall.
1102	(6) Diaphragm shall conform to the requirements of Section 2308.
1103	(7) Footing shall be a minimum of nine inches thick by 20 inches wide.
1104	(8) Soil backfill shall be soil classification types GW, GP, SW, or SP, per Table 1610.1. Soil shall not be submerged or saturated in groundwater."

1105 ~~[(3) In IBC, Section 1904.2, a new exception 1 is added as follows and the current~~  
 1106 ~~exception is modified to be number 2.]~~

1107 [Exceptions:]

1108 ~~["1. In ACI Table 4.3.1, for Exposure Class F1, change Maximum w/cm from 0.45 to~~  
 1109 ~~0.5 and Minimum f<sub>c</sub> from 4,500 psi to 3,000 psi."]~~

1110 ~~[(4)]~~ (3) A new IBC, Section ~~[1905.1.11]~~ 1905.1.9, is added as follows: ~~["1905.1.11]~~  
 1111 ~~"1905.1.9~~ ACI 318, Table 4.2.1." Modify ACI 318, Table ~~[4.2.1]~~ 19.3.1.1 to read as follows:  
 1112 In the portion of the table designated as "Conditions", the following Exposure ~~[categories]~~  
 1113 ~~category~~ and ~~[classes are]~~ class is deleted and replaced with the following:

1114 "F0: Concrete elements not exposed to freezing and thawing cycles to include footing and  
 1115 foundation elements that are completely buried in soil."

1116 ~~[F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be~~  
 1117 ~~saturated or exposed to deicing chemicals.]~~

1118 ~~[F2: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated,~~  
 1119 ~~but not exposed to deicing chemicals.]~~

1120 ~~[F3: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated~~  
 1121 ~~and exposed to deicing chemicals."]~~

1122 Section 13. Section 15A-3-110 is amended to read:

1123 **15A-3-110. Amendments to Chapters 23 through 25 of IBC.**

1124 (1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors.  
 1125 The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used

1126 Load Duration Factors, Cd, of the National Design Specifications, shall not be utilized at  
 1127 elevations above 5,000 feet (1,524 M)."

1128 (2) In IBC, Section [~~2308.6~~] 2308.3.1, a new exception, 3, is added as follows:

1129 "~~[Exception:]~~ 3. Where foundation plates or sills are bolted or anchored to the foundation with  
 1130 not less than 1/2 inch (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7  
 1131 inches (178 mm) into concrete or masonry and spaced not more than 32 inches (816 mm) apart,  
 1132 there shall be a minimum of two bolts or anchor straps per piece located not less than 4 inches  
 1133 (102 mm) from each end of each piece. A properly sized nut and washer shall be tightened on  
 1134 each bolt to the plate."

1135 (3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other  
 1136 materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with  
 1137 ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7, as amended in Section  
 1138 [~~+613.8~~] 1613.5, for installation in high seismic areas."

1139 Section 14. Section **15A-3-112** is amended to read:

1140 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

1141 (1) In IBC [P] Table 2902.1 the following changes are made:

1142 (a) The title for [P] Table 2902.1 is deleted and replaced with the following: "[P] Table  
 1143 2902.1, Minimum Number of Required Plumbing Facilities <sup>a, h</sup>".

1144 (b) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

1145 (c) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

1146 (d) A new footnote h is added as follows: "FOOTNOTE: h. When provided, in public  
 1147 toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms  
 1148 and female toilet rooms."

1149 (e) A new footnote i is added to the table as follows: "FOOTNOTE i: Non-residential  
 1150 child care facilities shall comply with additional sink requirements of Utah Administrative  
 1151 Code R430-100-4."

1152 (2) A new IBC, Section [P]2902.7, is added as follows:

1153 "[P]2902.7 Toilet Facilities for Workers.

1154 Toilet facilities shall be provided for construction workers and such facilities shall be  
 1155 maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type  
 1156 shall conform to ANSI Z4.3."

1157           ~~[(2)]~~ (3) In IBC, Section 3006.5, a new exception is added as follows: "Exception:  
1158 Hydraulic elevators and roped hydraulic elevators with a rise of 50 feet or less."

1159           Section 15. Section **15A-3-113** is amended to read:

1160           **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

1161           ~~[(1) A new section IBC, Section 3401.7, is added as follows: "3401.7 Parapet bracing,~~  
1162 ~~wall anchors, and other appendages. Until June 30, 2014, a building constructed before 1975~~  
1163 ~~shall have parapet bracing, wall anchors, and appendages such as cornices, spires, towers,~~  
1164 ~~tanks, signs, statuary, etc. evaluated by a licensed engineer when the building is undergoing~~  
1165 ~~structural alterations, which may include structural sheathing replacement of 10% or greater, or~~  
1166 ~~other structural repairs. Reroofing or water membrane replacement may not be considered a~~  
1167 ~~structural alteration or repair for purposes of this section. Beginning July 1, 2014, a building~~  
1168 ~~constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as~~  
1169 ~~cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the~~  
1170 ~~building is undergoing a total reroofing. Parapet bracing, wall anchors, and appendages~~  
1171 ~~required by this section shall be evaluated in accordance with 75% of the seismic forces as~~  
1172 ~~specified in Section 1613. When allowed by the local building official, alternate methods of~~  
1173 ~~equivalent strength as referenced in an approved code under Utah Code, Subsection~~  
1174 ~~15A-1-204(6)(a), will be considered when accompanied by engineer-sealed drawings, details,~~  
1175 ~~and calculations. When found to be deficient because of design or deteriorated condition, the~~  
1176 ~~engineer's recommendations to anchor, brace, reinforce, or remove the deficient feature shall be~~  
1177 ~~implemented.]~~

1178 [Exceptions:]

1179 [1. Group R-3 and U occupancies.]

1180 [2. Unreinforced masonry parapets need not be braced according to the above stated provisions  
1181 provided that the maximum height of an unreinforced masonry parapet above the level of the  
1182 diaphragm tension anchors or above the parapet braces shall not exceed one and one-half times  
1183 the thickness of the parapet wall. The parapet height may be a maximum of two and one-half  
1184 times its thickness in other than Seismic Design Categories D, E, or F.]

1185           ~~[(2) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Seismic.~~  
1186 ~~When a change in occupancy results in a structure being reclassified to a higher Risk Category~~  
1187 ~~(as defined in Table 1604.5), or when such change of occupancy results in a design occupant~~

1188 ~~load increase of 100% or more, the structure shall conform to the seismic requirements for a~~  
1189 ~~new structure.]~~

1190 [~~Exceptions:~~]

1191 [~~1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall~~  
1192 ~~not be required to be met where it can be shown that the level of performance and seismic~~  
1193 ~~safety is equivalent to that of a new structure. A demonstration of equivalence analysis shall~~  
1194 ~~consider the regularity, overstrength, redundancy, and ductility of the structure. Alternatively,~~  
1195 ~~the building official may allow the structure to be upgraded in accordance with referenced~~  
1196 ~~sections as found in an approved code under Utah Code, Subsection 15A-1-204(6)(a).]~~

1197 [~~2. When a change of use results in a structure being reclassified from Risk Category I or II to~~  
1198 ~~Risk Category III and the structure is located in a seismic map area where SDS is less than~~  
1199 ~~0.33, compliance with the seismic requirements of this code and ASCE 7 are not required.]~~

1200 [~~3. Where design occupant load increase is less than 25 occupants and the Risk Category does~~  
1201 ~~not change."]~~

1202 [~~(3)~~] (1) In IBC, Chapter 35, the referenced standard ICCA117.1-09, Section 606.2,  
1203 Exception 1 is modified to include the following sentence at the end of the exception:

1204 "The minimum clear floor space shall be centered on the sink assembly."

1205 [~~(4)~~] (2) The following referenced standard is added under UL in IBC, Chapter 35:

"Number	Title	Referenced in code section number
2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"

1208 Section 16. Section **15A-3-202** is amended to read:

1209 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

1210 (1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2  
1211 Physical change for bedroom window egress. A structure whose egress window in an existing  
1212 bedroom is smaller than required by this code, and that complied with the construction code in  
1213 effect at the time that the bedroom was finished, is not required to undergo a physical change to  
1214 conform to this code if the change would compromise the structural integrity of the structure or  
1215 could not be completed in accordance with other applicable requirements of this code,

1216 including setback and window well requirements."

1217 (2) In IRC, Section 109:

1218 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant  
1219 exterior wall envelope inspections. An inspection shall be made of the weather-resistant  
1220 exterior wall envelope as required by Section R703.1 and flashings as required by Section  
1221 R703.8 to prevent water from entering the weather-resistive barrier."

1222 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;  
1223 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced  
1224 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;  
1225 and R109.1.7 Final inspection.

1226 (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to  
1227 owner. Upon notice from the building official that work on any building or structure is being  
1228 prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an  
1229 unsafe and dangerous manner, such work shall be immediately stopped. The stop work order  
1230 shall be in writing and shall be given to the owner of the property involved, or to the owner's  
1231 agent or to the person doing the work; and shall state the conditions under which work will be  
1232 permitted to resume."

1233 (4) In IRC, Section R202, the following definition is added: "CERTIFIED  
1234 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to  
1235 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
1236 under Utah Code, Subsection [19-4-104\(4\)](#)."

1237 (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by  
1238 deleting the words at the end of the sentence "being heated or cooled by any equipment or  
1239 appliance" and replacing them with the following: "enclosed within the building thermal  
1240 envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following  
1241 means:

- 1242 1. Openings directly into an adjacent conditioned space.  
1243 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.  
1244 3. Un-insulated duct, piping or other heat or cooling source within the space."

1245 (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced  
1246 with the following: "CROSS CONNECTION. Any physical connection or potential

1247 connection or arrangement between two otherwise separate piping systems, one of which  
 1248 contains potable water and the other either water of unknown or questionable safety or steam,  
 1249 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
 1250 with the direction of flow depending on the pressure differential between the two systems (see  
 1251 "Backflow, Water Distribution")."

1252 (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the  
 1253 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear  
 1254 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without  
 1255 objectionable odors; non-highly pigmented; and will not interfere with the operation of the  
 1256 sewer treatment facility."

1257 (8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced  
 1258 with the following: "POTABLE WATER. Water free from impurities present in amounts  
 1259 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,  
 1260 Title 19, [~~Chapters~~] Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water  
 1261 Quality Act, and the regulations of the public health authority having jurisdiction."

1262 (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table  
 1263 R301.2(5b) as follows:

"TABLE NO. R301.2(5a)				
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS				
	COUNTY	Po	S	Ao
	Beaver	43	63	6.2
	Box Elder	43	63	5.2
	Cache	50	63	4.5
	Carbon	43	63	5.2
	Daggett	43	63	6.5
	Davis	43	63	4.5
	Duchesne	43	63	6.5
	Emery	43	63	6.0
	Garfield	43	63	6.0
	Grand	36	63	6.5

1277	Iron	43	63	5.8
1278	Juab	43	63	5.2
1279	Kane	36	63	5.7
1280	Millard	43	63	5.3
1281	Morgan	57	63	4.5
1282	Piute	43	63	6.2
1283	Rich	57	63	4.1
1284	Salt Lake	43	63	4.5
1285	San Juan	43	63	6.5
1286	Sanpete	43	63	5.2
1287	Sevier	43	63	6.0
1288	Summit	86	63	5.0
1289	Tooele	43	63	4.5
1290	Uintah	43	63	7.0
1291	Utah	43	63	4.5
1292	Wasatch	86	63	5.0
1293	Washington	29	63	6.0
1294	Wayne	36	63	6.5
1295	Weber	43	63	4.5

1296	TABLE NO. R301.2(5b)				
1297	REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS <sup>1,2</sup>				
1298	The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.				
1299	County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) <sup>6</sup>
1300	Carbon	Price <sup>3</sup>	5550	43	30
		All other county locations <sup>5</sup>	--	--	--
1301	Davis	Fruit Heights <sup>3</sup>	4500 - 4850	57	40

1302	Emery	Green River <sup>3</sup>	4070	36	25
1303	Garfield	Panguitch <sup>3</sup>	6600	43	30
1304	Rich	Woodruff <sup>3</sup>	6315	57	40
		Laketown <sup>4</sup>	6000	57	40
		Garden City <sup>5</sup>	--	--	--
		Randolph <sup>4</sup>	6300	57	40
1305	San Juan	Monticello <sup>3</sup>	6820	50	35
1306	Summit	Coalville <sup>3</sup>	5600	86	60
		Kamas <sup>4</sup>	6500	114	80
1307	Tooele	Tooele <sup>3</sup>	5100	43	30
1308	Utah	Orem <sup>3</sup>	4650	43	30
		Pleasant Grove <sup>4</sup>	5000	43	30
		Provo <sup>5</sup>	--	--	--
1309	Wasatch	Heber <sup>5</sup>	--	--	--
1310	Washington	Leeds <sup>3</sup>	3460	29	20
		Santa Clara <sup>3</sup>	2850	21	15
		St. George <sup>3</sup>	2750	21	15
		All other county locations <sup>5</sup>	--	--	--
1311	Wayne	Loa <sup>3</sup>	7080	43	30
1312	1The IRC requires a minimum live load -- See R301.6.				
1313	2This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.				
1314	3Values adopted from Table VII of the Utah Snow Load Study				
1315	4Values based on site-specific study. Contact local Building Official for additional information.				
1316	5Contact local Building Official.				
1317	6Based on Ce =1.0, Ct =1.0 and Is =1.0"				

1318 (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah

1319 Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions  
1320 identified in that table. Otherwise, the ground snow load,  $P_g$ , to be used in the determination  
1321 of design snow loads for buildings and other structures shall be determined by using the  
1322 following formula:  $P_g = (P_o^2 + S^2(A-A_o)^2)^{0.5}$  for  $A$  greater than  $A_o$ , and  $P_g = P_o$  for  $A$  less  
1323 than or equal to  $A_o$ .

1324 WHERE:

1325  $P_g$  = Ground snow load at a given elevation (psf);

1326  $P_o$  = Base ground snow load (psf) from Table No. R301.2(5a);

1327  $S$  = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);

1328  $A$  = Elevation above sea level at the site (ft./1,000);

1329  $A_o$  = Base ground snow elevation from Table R301.2(5a) (ft./1,000).

1330 The building official may round the roof snow load to the nearest 5 psf. The ground snow  
1331 load,  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits  
1332 data substantiating the adjustments.

1333 Where the minimum roof live load in accordance with Table R301.6 is greater than the design  
1334 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to  
1335 a load lower than the design roof snow load. Drifting need not be considered for roof snow  
1336 loads less than 20 psf."

1337 [~~(11) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced with~~  
1338 ~~the following:~~]

1339 [~~"Exceptions:~~]

1340 [~~1. A common 2-hour fire-resistance-rated wall is permitted for townhouses if such walls do~~  
1341 ~~not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common~~  
1342 ~~wall. Electrical installation shall be installed in accordance with Chapters 34 through 43.~~  
1343 ~~Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.]~~

1344 [~~2. In buildings equipped with an automatic residential fire sprinkler system, a".]~~

1345 [~~(12) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6.~~

1346 ~~Townhouses separated by a common 2-hour fire-resistance-rated wall as provided in Section~~  
1347 ~~R302.2."]~~

1348 [~~(13)~~ (11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and  
1349 replaced with "self-latching hardware".

1350 (12) IRC, Section R302.13, is deleted.

1351 ~~[(14)]~~ (13) In IRC, Section R303.4, the number "5" is changed to "3" in the first  
1352 sentence.

1353 ~~[(15)]~~ (14) IRC, Sections R311.7.4 through ~~[R311.7.4.3]~~ R311.7.5.3, are deleted and  
1354 replaced with the following: "R311.7.4 Stair treads and risers. ~~[R311.7.4.1]~~ R311.7.5.1 Riser  
1355 height. The maximum riser height shall be 8 inches (203 mm). The riser shall be measured  
1356 vertically between leading edges of the adjacent treads. The greatest riser height within any  
1357 flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

1358 ~~[R311.7.4.2]~~ R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm).

1359 The tread depth shall be measured horizontally between the vertical planes of the foremost  
1360 projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread  
1361 depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

1362 Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at  
1363 a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall  
1364 have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
1365 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
1366 more than 3/8 inch (9.5 mm).

1367 ~~[R311.7.4.3]~~ R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall  
1368 be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more  
1369 than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
1370 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)  
1371 between two stories, including the nosing at the level of floors and landings. Beveling of  
1372 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
1373 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad)  
1374 from the vertical. Open risers are permitted, provided that the opening between treads does not  
1375 permit the passage of a 4-inch diameter (102 mm) sphere.

1376 Exceptions.

1377 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

1378 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches  
1379 (762 mm) or less."

1380 ~~[(16) In IRC, Section R312.1.2, the words "adjacent fixed seating" are deleted.]~~

1381           ~~[(17)]~~ (15) IRC, Section R312.2, is deleted.

1382           ~~[(18)]~~ (16) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
1383 following: "R313.1 Design and installation. When installed, automatic residential fire  
1384 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and  
1385 installed in accordance with Section P2904 or NFPA 13D."

1386           (17) In IRC, Section 315.3, the following words are added to the first sentence after the  
1387 word "installed": "on each level of the dwelling unit and".

1388           ~~[(19) A new]~~ (18) In IRC, Section R315.5, a new exception, 3, is added as follows:  
1389 [~~"R315.5 Power source. Carbon monoxide alarms shall receive their primary power from the  
1390 building wiring when such wiring is served from a commercial source, and when primary  
1391 power is interrupted, shall receive power from a battery. Wiring shall be permanent and  
1392 without a disconnecting switch other than those required for over-current protection.~~]

1393 [Exceptions:]

1394 [~~1. Carbon monoxide alarms shall be permitted to be battery operated when installed in  
1395 buildings without commercial power.~~]

1396 [~~2]~~ 3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where  
1397 the alterations or repairs do not result in the removal of interior wall or ceiling finishes  
1398 exposing the structure, unless there is an attic, crawl space or basement available which could  
1399 provide access for hard wiring, without the removal of interior finishes."

1400           ~~[(20)]~~ (19) A new IRC, Section [~~R315.6~~] R315.7, is added as follows: "~~[R315.6]~~  
1401 R315.7 Interconnection. Where more than one carbon monoxide alarm is required to be  
1402 installed within an individual dwelling unit in accordance with Section R315.1, the alarm  
1403 devices shall be interconnected in such a manner that the actuation of one alarm will activate  
1404 all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be  
1405 required where listed wireless alarms are installed and all alarms sound upon activation of one  
1406 alarm.

1407 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required  
1408 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing  
1409 the structure, unless there is an attic, crawl space or basement available which could provide  
1410 access for interconnection without the removal of interior finishes."

1411           ~~[(21)]~~ (20) In IRC, Section R403.1.6, a new Exception [~~4~~] 3 is added as follows: "~~[4]~~ 3.

1412 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
 1413 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
 1414 from each end of each plate section at interior bearing walls, interior braced wall lines, and at  
 1415 all exterior walls."

1416 ~~[(22)]~~ (21) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2  
 1417 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816  
 1418 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
 1419 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
 1420 interior braced wall lines, and at all exterior walls."

1421 ~~[(23)]~~ (22) In IRC, Section R404.1, a new exception is added as follows: "Exception:  
 1422 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
 1423 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
 1424 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1425 ~~[(24) IRC, Section R501.3, is deleted.]~~

1426 Section 17. Section **15A-3-203** is amended to read:

1427 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

1428 (1) In IRC, Section ~~[N1101.8]~~ N1101.5 (R103.2), all words after the words "herein  
 1429 governed." are deleted and replaced with the following: "Construction documents include all  
 1430 documentation required to be submitted in order to issue a building permit."

1431 (2) In IRC, Section ~~[N1101.14]~~ N1101.12 (R303.3), all wording after the first sentence  
 1432 is deleted.

1433 (3) In IRC, Section N1101.13 (R401.2), add Exception as follows:

1434 "Exception: A project complies if the project demonstrates compliance with "0 percent better  
 1435 than code" using the software RESCheck 2012 Utah Energy Conservation Code."

1436 ~~[(3)]~~ (4) In IRC, Table ~~[N1102.1.1 (R402.1.1) and Table N1102.1.3 (R402.1.3), the~~  
 1437 ~~rows for "climate zone 3", "climate zone 5 and Marine 4", and "climate zone 6" are deleted and~~  
 1438 ~~replaced and]~~ N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE, a new  
 1439 footnote j is added as follows:

1440 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches  
 1441 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31  
 1442 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil),

1443 and all other component requirements are met."

1444 [

"TABLE N1102.1.1 (R402.1.1)										
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup>										
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT <sup>c</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>d,e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>f</sup>	FLOOR R-VALUE	BASEMENT <sup>g</sup> WALL R-VALUE	SLAB <sup>h</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>i</sup> WALL R-VALUE
3	0.65	0.65	0.40	30	15	5	19	0	0	5/13
5 and Marine 4	0.35	0.60	NR	38	19 or 13 + 5 <sup>j</sup>	13	30 <sup>k</sup>	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	19 or 13 + 5 <sup>j</sup>	15	30 <sup>k</sup>	10/13	10, 4 ft	10/13

<sup>a</sup>j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."

1452

TABLE N1102.1.3 (R402.1.3)										
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1453

EQUIVALENT U-FACTORS <sup>a</sup>										
-----------------------------------	--	--	--	--	--	--	--	--	--	--

1454

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR <sup>b</sup>	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
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1455

3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
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1456

5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.033	0.059	0.065
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1457

6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065
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1458 ] [(4) In IRC, Section N1102.2.1 (R402.2.1), the last sentence is deleted.]

1459 [(5) In IRC, Section N1102.2.2 (R402.2.2), the last sentence is deleted.]

1460 [(6) In IRC, Section N1102.3.3 (R402.3.3), the last sentence is deleted.]

1461 [(7) In IRC, Section N1102.3.4 (R402.3.4), the last sentence is deleted.]

1462 [(8)] (5) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is  
 1463 deleted and replaced with the word "or".

1464 [(9)] (6) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and  
 1465 replaced with the following: "Where allowed by the [building] code official, the builder may  
 1466 certify compliance to components criteria for items which may not be inspected during

1467 regularly scheduled inspections."

1468 ~~[(10)]~~ (7) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:

1469 (a) In the first sentence, the words "in Climate Zones 1 and 2, and [~~3~~] three air changes  
1470 per hour in [~~Zone~~] Climate Zones 3 through 8" are deleted.

1471 (b) In the third sentence, [~~the words "Where required by the building official," and]~~ the  
1472 word "third" [~~are~~] is deleted.

1473 (c) The following sentence is inserted after the third sentence: "The following parties  
1474 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed  
1475 contractors who have completed training provided by Blower Door Test equipment  
1476 manufacturers or other comparable training."

1477 [~~(11) In IRC, Section N1102.4.4 (R402.4.4), the last sentence is deleted.]~~

1478 [~~(12) In IRC, Section N1103.2.2 (R403.2.2), the requirements for total leakage testing  
1479 are deleted and replaced with the following:]~~

1480 [~~"1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283  
1481 L/min) per 100 square feet (9.29 m2) of conditioned floor space when tested at a pressure  
1482 differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air  
1483 handler enclosure. All register boots shall be taped or otherwise sealed during the test.]~~

1484 [~~2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per  
1485 100 square feet (9.29 m2) of conditioned floor area when tested at a pressure differential of at  
1486 least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler  
1487 enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is  
1488 not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212  
1489 L/min) per 100 square feet (9.29 m2) of conditioned floor area."]~~

1490 [~~(13)]~~ (8) In IRC, Section [~~N1103.2.2 (R403.2.2)]~~ N1103.3.3 (R403.3.3), the exception  
1491 for [~~total~~] duct air leakage testing is deleted and replaced with the following: "Exception: The  
1492 [~~total~~] duct air leakage test is not required for systems with all air handlers and at least [~~50%~~]  
1493 65% of all ducts (measured by length) located entirely within the building thermal envelope."

1494 (9) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the exception:  
1495 "The following parties shall be approved to conduct testing: Parties certified by BPI or  
1496 RESNET, or licensed contractors who have completed either training provided by Duct Test  
1497 equipment manufacturers or other comparable training."

1498 (10) In IRC, Section N1103.3.4 (R403.3.4), in Subsection 1, the number 4 is changed  
 1499 to 8, the number 113.3 is changed to 170, the number 3 is changed to 6, the number 85 is  
 1500 changed to 114.6, and in Subsection 2, the number 4 is changed to 8 and the number 113.3 is  
 1501 changed to 226.5.

1502 ~~[(14)]~~ (11) In IRC, Section ~~[N1103.2.3 (R403.2.3)]~~ N1103.3.5 (R403.3.5), the words  
 1503 "or plenums" are deleted.

1504 ~~[(15) In IRC, Section N1103.4.2 (R403.4.2), the sentences for "3.", "9.", and the last~~  
 1505 ~~sentence are deleted.]~~

1506 ~~[(16) In IRC, Section N1103.5 (R403.5), the first sentence is deleted.]~~

1507 ~~[(17) IRC, Section N1104.1 (R404.1) and the exception are deleted, and N1104.1.1~~  
 1508 ~~(R404.1.1) becomes N1104.1 (R404.1).]~~

1509 ~~[(18) In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under~~  
 1510 ~~the column STANDARD REFERENCE DESIGN:]~~

1511 ~~[(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per~~  
 1512 ~~hour in Zones 3 through 8" are deleted.]~~

1513 ~~[(b) In the row "Heating systems<sup>f,g</sup>", the standard reference design is deleted and~~  
 1514 ~~replaced with the following:]~~

1515 ~~["Fuel Type: same as proposed design]~~

1516 ~~[Efficiencies:]~~

1517 ~~[Electric: air source heat pump with prevailing federal minimum efficiencies]~~

1518 ~~[Nonelectric furnaces: natural gas furnace with prevailing federal minimum~~  
 1519 ~~efficiencies]~~

1520 ~~[Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies]~~

1521 ~~[Capacity: sized in accordance with Section N1103.6"]~~

1522 ~~[(c) In the row "Cooling systems<sup>f,h</sup>" the words "As proposed" are deleted and replaced~~  
 1523 ~~with the following:]~~

1524 ~~["Fuel Type: Electric]~~

1525 ~~[Efficiency: in accordance with prevailing federal minimum standards"]~~

1526 ~~[(d) In the row "Service water heating<sup>f,g,h,i</sup>", the words "As proposed" are deleted and~~  
 1527 ~~replaced with the following:]~~

1528 ~~["Fuel Type: same as proposed design]~~

1529 [Efficiency: in accordance with prevailing federal minimum standards]

1530 [Tank Temperature: 120° F"]

1531 [(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced

1532 with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to

1533 both the heating and cooling system efficiencies."]

1534 [(19) In Table N1105.5.2(2) (R405.5.2(2)), the number "0.80" is inserted under

1535 "Forced air systems" for "Distribution system components located in unconditioned space".]

1536 (12) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6

1537 and 7 are renumbered.

1538 (13) In IRC, Section N1106.2 (R406.2), the last sentence and exception are deleted.

1539 (14) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with the

1540 following:

1541 TABLE N1106.4 (R406.4)	
1542 MAXIMUM ENERGY RATING INDEX	
1543 CLIMATE ZONE	ENERGY RATING INDEX
15443	65
15455	69
15466	68

1547 [(20) (15) In IRC, Section M1307.2, the words "In Seismic Design Categories [D1 and

1548 D2]" D0, D1, and D2, and in townhouses in Seismic Design Category C", are deleted, and in

1549 Subparagraph 1, the last sentence is deleted.

1550 [(21) The RESCheck Software adopted by the United States Department of Energy and

1551 modified to meet the requirements of this section shall be used to verify compliance with this

1552 section. The software shall address the Total UA alternative approach and account for

1553 Equipment Efficiency Trade-offs when applicable per the standard reference design as

1554 amended.]

1555 [(22) (16) IRC, Section [M1411.6] M1411.8, is deleted.

1556 Section 18. Section **15A-3-204** is amended to read:

1557 **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

1558 [(1) In IRC, Table M1601.1.1(2), in the section "Round ducts and enclosed rectangular

1559 ducts", the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced  
1560 with "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size,  
1561 "0.013" under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under  
1562 aluminum minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is  
1563 deleted.]

1564 [(2) In IRC, Section M1901.3, the word "only" is inserted between the words "labeled"  
1565 and "for".]

1566 [(3)] A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.  
1567 Fuel gas services shall be in an approved location and/or provided with structures designed to  
1568 protect the fuel gas meter and surrounding piping from physical damage, including falling,  
1569 moving, or migrating ice and snow. If an added structure is used, it must provide access for  
1570 service and comply with the IBC or the IRC."

1571 Section 19. Section **15A-3-205** is amended to read:

1572 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1573 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water  
1574 supply. Where a potable public water supply is not available, individual sources of potable  
1575 water supply shall be utilized, provided that the source has been developed in accordance with  
1576 Utah Code, Sections [73-3-1](#) and [73-3-25](#), as administered by the Department of Natural  
1577 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by  
1578 the local health department having jurisdiction."

1579 (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every  
1580 building in which plumbing fixtures are installed and all premises having drainage piping shall  
1581 be connected to a public sewer where the sewer is accessible and is within 300 feet of the  
1582 property line in accordance with Utah Code, Section [10-8-38](#); or an approved private sewage  
1583 disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as  
1584 administered by the Department of Environmental Quality, Division of Water Quality."

1585 (3) In IRC, Section [~~P2801.7~~] P2801.8, all words in the first sentence up to the word  
1586 "water" are deleted.

1587 (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly  
1588 testing. The premise owner or [~~his~~] the premise owner's designee shall have backflow  
1589 prevention assemblies operation tested in accordance with administrative rules made by the

1590 Drinking Water Board at the time of installation, repair, and relocation and at least on an  
 1591 annual basis thereafter, or more frequently as required by the authority having jurisdiction.  
 1592 Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The  
 1593 assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the  
 1594 Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the  
 1595 Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle  
 1596 Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for  
 1597 backflow prevention assemblies will consist of any combination of two certifications,  
 1598 laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO,  
 1599 and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow  
 1600 protection assemblies. Also see [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov) and rules made by the Drinking  
 1601 Water Board."

1602 [~~(5) IRC, Table P2902.3, is deleted and replaced with the following:~~]

1603 [

"DEVICE	DEGREE OF HAZARD <sup>a</sup>	APPLICATION <sup>b</sup>	APPLICABLE STANDARDS
<del>BACKFLOW PREVENTION ASSEMBLIES:</del>			
<del>Double check backflow prevention assembly and double check fire protection backflow prevention assembly</del>	<del>Low hazard</del>	<del>Backpressure or backsiphonage Sizes 3/8" - 16"</del>	<del>ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1</del>
<del>Double check detector fire protection backflow prevention assemblies</del>	<del>Low hazard</del>	<del>Backpressure or backsiphonage Sizes 3/8" - 16"</del>	<del>ASSE 1048</del>
<del>Pressure vacuum breaker assembly</del>	<del>High or low hazard</del>	<del>Backsiphonage only Sizes 1/2" - 2"</del>	<del>ASSE 1020, CSA B64.1.2</del>

1609	Reduced pressure principle backflow prevention assembly and reduced pressure principle fire protection backflow assembly	High or low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1013, AWWA C511, CSA B64.4, CSA B64.4.1
1610	Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backpressure or backsiphonage (Fire Sprinkler Systems)	ASSE 1047
1611	Spill-resistant vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1056
1612	<b>BACKFLOW PREVENTER PLUMBING DEVICES:</b>			
1613	Antisiphon-type fill valves for gravity water closet flush tanks	High hazard	Backsiphonage only	ASSE 1002, CSA B125.3
1614	Backflow preventer for carbonated beverage machines	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1022
1615	Backflow preventer with intermediate atmospheric vents	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1012, CSA B64.3
1616	Dual check valve type backflow preventers	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 1"	ASSE 1024, CSA B64.6
1617	Hose connection backflow preventer	High or low hazard	Backsiphonage only Sizes 1/2" - 1"	ASSE 1052, CSA B64.2, B64.2.1
1618	Hose connection vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2", 3/4", 1"	ASSE 1011, CAN/CSA B64.1.1

1619	Atmospheric type vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2" - 4"	ASSE 1001, CSA B64.1.1
1620	Vacuum breaker wall hydrants, frost resistant, automatic draining type	High or low hazard	Backsiphonage only Sizes 3/4", 1"	ASSE 1019, CSA B64.2.2
1621	<del>OTHER MEANS or METHODS:</del>			
1622	Air gap	High or low hazard	Backsiphonage only	ASME A112.1.2
1623	Air gap fittings for use with plumbing fixtures, appliances and appurtenances	High or low hazard	Backpressure or backsiphonage	ASME A112.1.3
1624	For SI: 1 inch = 25.4 mm			
1625	a. <del>Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)</del>			
1626	b. <del>See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage Section 202)</del>			
1627	Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter."			

1628 ] ~~[(6) In IRC, Section P3009.1, all words after the word "urinals" are deleted and the~~  
 1629 ~~following sentence is added at the end: "Gray water recycling systems for subsurface landscape~~  
 1630 ~~irrigation shall conform with UAC R317-401 Gray Water Systems."]~~

1631 ~~[(7) A new IRC, Section P3009.1.1, is added as follows: "P3009.1.1 Recording. The~~  
 1632 ~~existence of a gray water recycling system shall be recorded on the deed of ownership for that~~  
 1633 ~~property. The certificate of occupancy shall not be issued until the documentation of the~~  
 1634 ~~recording required under this section is completed by the owner."]~~

1635 ~~[(8) In IRC, Section P3009.2, the words "and systems for subsurface landscape~~  
 1636 ~~irrigation shall comply with Section P3009.14" are deleted.]~~

1637 ~~[(9) IRC, Section P3009.6, is deleted and replaced with the following: "P3009.6~~  
 1638 ~~Potable water connections. The potable water supply to any building utilizing a gray water~~

1639 recycling system shall be protected against backflow by a reduced pressure backflow  
1640 prevention assembly installed in accordance with Section P2902."]

1641 [(10) In IRC, Section P3009.7, the following is added at the end of the sentence: "and  
1642 other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;  
1643 without objectionable odor; non-highly pigmented; and will not interfere with the operation of  
1644 the sewer treatment facility."]

1645 [(11) In IRC, Section P3009.13.3, in the second sentence, the following is added  
1646 between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly  
1647 or an air gap installed".]

1648 [(12) IRC, Section P3009.14, is deleted and replaced with the following: "Section  
1649 P3009.14 LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for  
1650 subsurface irrigation for single family residences shall comply with the requirements of UAC  
1651 R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface  
1652 irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for  
1653 Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste  
1654 Systems."]

1655 (5) In IRC, Section P2902.1, the following subsections are added as follows:

1656 "P2902.1.1 General Installation Criteria.

1657 Assemblies shall not be installed more than five feet above the floor unless a permanent  
1658 platform is installed. The assembly owner, where necessary, shall provide devices or structures  
1659 to facilitate testing, repair, and maintenance, and to insure the safety of the backflow  
1660 technician.

1661 P2902.1.2 Specific Installation Criteria.

1662 P2902.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.

1663 The reduced pressure principle backflow prevention assembly shall be installed as  
1664 follows:

1665 a. The assembly may not be installed in a pit.

1666 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,  
1667 including a sanitary sewer, a storm drain, or a vent.

1668 c. The assembly shall be installed in a horizontal position only, unless listed or approved for  
1669 vertical installation in accordance with Section 303.4.

1670 d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or  
1671 ground.

1672 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1673 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1674 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.

1675 A double check valve backflow prevention assembly shall be installed as follows:

1676 a. The assembly shall be installed in a horizontal position only, unless listed or approved for  
1677 vertical installation.

1678 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor.

1679 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1680 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1681 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance  
1682 between all sides of the vault, including the floor and roof or ceiling, with adequate room for  
1683 testing and maintenance.

1684 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker  
1685 Assembly.

1686 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall  
1687 be installed as follows:

1688 a. The assembly shall not be installed in an area that could be subject to backpressure or back  
1689 drainage conditions.

1690 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and  
1691 the highest point of use.

1692 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall  
1693 be readily accessible for testing, repair, and maintenance.

1694 d. The assembly shall not be installed below ground, in a vault, or in a pit.

1695 e. The assembly shall be installed in a vertical position."

1696 (6) IRC, Section P2910.5, is deleted and replaced with the following:

1697 "P2910.5 Potable water connections.

1698 When a potable water system is connected to a nonpotable water system, the potable water  
1699 system shall be protected against backflow by a reduced pressure backflow prevention  
1700 assembly or an air gap installed in accordance with Section 2901."

1701 (7) IRC, Section P2910.9.5, is deleted and replaced with the following:

1702 "P2910.9.5 Makeup water.

1703 Where an uninterrupted nonpotable water supply is required for the intended application,  
1704 potable or reclaimed water shall be provided as a source of makeup water for the storage tank.

1705 The makeup water supply shall be protected against backflow by means of an air gap not less  
1706 than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow  
1707 prevention assembly installed in accordance with Section 2902."

1708 (8) In IRC, Section P2911.12.4, the following words are deleted: "and backwater  
1709 valves".

1710 (9) In IRC, Section P2912.15.6, the following words are deleted: "and backwater  
1711 valves".

1712 (10) In IRC, Section P2913.4.2, the following words are deleted: "and backwater  
1713 valves".

1714 (11) IRC, Section P3009, is deleted and replaced with the following:

1715 "P3009 Connected to nonpotable water from on-site water reuse systems.

1716 Nonpotable systems utilized for subsurface irrigation for single-family residences shall comply  
1717 with the requirements of R317-401, UAC, Gray Water Systems."

1718 ~~[(13)]~~ (12) In IRC, Section P3103.6, the following sentence is added at the end of the  
1719 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the  
1720 wall with an elbow pointing downward."

1721 ~~[(14)]~~ (13) In IRC, Section P3104.4, the following sentence is added at the end of the  
1722 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
1723 and floor sink installations when installed below grade in accordance with Chapter 30, and  
1724 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

1725 Section 20. Section **15A-3-206** is amended to read:

1726 **15A-3-206. Amendments to Chapters 36 and 44 of IRC.**

1727 (1) In IRC, Section E3901.9, the following exception is added:

1728 "Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets  
1729 adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the  
1730 garage may be connected to the garage branch circuit."

1731 ~~[(15)]~~ (2) In IRC, Section ~~[E3902.12]~~ E3902.16, the following words in the first

1732 sentence are deleted: "family rooms, dining rooms, living rooms, parlors, libraries, dens," and  
 1733 "sunrooms, recreation rooms, closets, hallways, and similar rooms or areas."

1734 (3) In Section E3902.17:

1735 (a) following the word "Exception" the number "1." is added; and

1736 (b) at the end of the section, the following sentences are added:

1737 [~~Exception:~~] "2. This section does not apply for a simple move or an extension of a branch  
 1738 circuit or an outlet which does not significantly increase the existing electrical load. This  
 1739 exception does not include changes involving remodeling or additions to a residence."

1740 [~~(2)~~] (3) IRC, Chapter 44, is amended by adding the following reference standard:

"Standard reference number	Title	Referenced in code section number
USC-FCCCHR 10th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table P2902.3"

1743 Section 21. Section **15A-3-302** is amended to read:

1744 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

1745 (1) A new IPC, Section [~~101.2~~] 101.2.1, is added as follows: "For clarification, the  
 1746 International Private Sewage Disposal Code is not part of the plumbing code even though it is  
 1747 in the same printed volume."

1748 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is  
 1749 deleted.

1750 (3) In IPC, Section 202, the following definition is added: "Certified Backflow  
 1751 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention  
 1752 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection  
 1753 19-4-104(4)."

1754 (4) In IPC, Section 202, the following definition is added: "Contamination (High  
 1755 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the  
 1756 public health through poisoning or through the spread of disease by sewage, industrial fluids or  
 1757 waste."

1758 (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced  
1759 with the following: "Cross Connection. Any physical connection or potential connection or  
1760 arrangement between two otherwise separate piping systems, one of which contains potable  
1761 water and the other either water of unknown or questionable safety or steam, gas, or chemical,  
1762 whereby there exists the possibility for flow from one system to the other, with the direction of  
1763 flow depending on the pressure differential between the two systems (see "Backflow")."

1764 (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A  
1765 manufactured or field fabricated trap with a liquid seal of 4" or larger."

1766 [~~(7) In IPC, Section 202, in the definition for gray water a comma is inserted after the~~  
1767 ~~word "washers", the word "and" is deleted, and the following is added to the end: "and clear~~  
1768 ~~water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without~~  
1769 ~~objectionable odors; non-highly pigmented; and will not interfere with the operation of the~~  
1770 ~~sewer treatment facility."~~]

1771 (7) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is  
1772 deleted and replaced with the following:

1773 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1,  
1774 including propylene glycol; and mineral oil."

1775 (8) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted  
1776 and replaced with the following:

1777 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is  
1778 not an essentially nontoxic transfer fluid under this code."

1779 [~~(8)~~ (9) In IPC, Section 202, the following definition is added: "High Hazard. See  
1780 Contamination."

1781 [~~(9)~~ (10) In IPC, Section 202, the following definition is added: "Low Hazard. See  
1782 Pollution."

1783 [~~(10)~~ (11) In IPC, Section 202, the following definition is added: "Pollution (Low  
1784 Hazard). An impairment of the quality of the potable water to a degree that does not create a  
1785 hazard to the public health but that does adversely and unreasonably affect the aesthetic  
1786 qualities of such potable water for domestic use."

1787 [~~(11)~~ (12) In IPC, Section 202, the definition for "Potable Water" is deleted and  
1788 replaced with the following: "Potable Water. Water free from impurities present in amounts

1789 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,  
1790 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and  
1791 the regulations of the public health authority having jurisdiction."

1792 Section 22. Section **15A-3-303** is amended to read:

1793 **15A-3-303. Amendments to Chapter 3 of IPC.**

1794 (1) In IPC, Section 303.4, the following exception is added:

1795 "Exception: Third-party certification for backflow prevention assemblies will consist of any  
1796 combination of two certifications, laboratory or field. Acceptable third party laboratory  
1797 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently  
1798 provides the only field testing of backflow protection assemblies. Also see  
1799 [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov) and Division of Drinking Water Rule, Utah Administrative Code,  
1800 R309-305-6."

1801 [~~(2) IPC, Section 304.3, Meter Boxes, is deleted.~~]

1802 (2) IPC, Section 307.5, Protection of footings, is deleted.

1803 (3) IPC, Section 311.1, is deleted.

1804 (4) In IPC, Section 312.3, the following is added at the end of the paragraph:

1805 "Where water is not available at the construction site or where freezing conditions limit  
1806 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be  
1807 tested with air. The following procedures shall be followed:

1808 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can  
1809 explode, causing serious injury or death.

1810 2. Contractor assumes all liability for injury or death to persons or damage to property or for  
1811 claims for labor and/or material arising from any alleged failure of the system during testing  
1812 with air or compressed gasses.

1813 3. Proper personal protective equipment, including safety eyewear and protective headgear,  
1814 should be worn by all individuals in any area where an air or gas test is being conducted.

1815 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1816 5. No [~~water supply~~] drain and vent system shall be pressurized in excess of 6 psi as measured  
1817 by accurate gauges graduated to no more than three times the test pressure.

1818 6. The pressure gauge shall be monitored during the test period, which should not exceed 15  
1819 minutes.

1820 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or  
1821 gases should be vented, and test balls and plugs should be removed with caution."

1822 (5) In IPC, Section 312.5, the following is added at the end of the paragraph:

1823 "Where water is not available at the construction site or where freezing conditions limit the use  
1824 of water on the construction site, plastic water pipes may be permitted to be tested with air.

1825 The following procedures shall be followed:

1826 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can  
1827 explode, causing serious injury or death.

1828 2. Contractor assumes all liability for injury or death to persons or damage to property or for  
1829 claims for labor and/or material arising from any alleged failure of the system during testing  
1830 with air or compressed gasses.

1831 3. Proper personal protective equipment, including safety eyewear and protective headgear,  
1832 should be worn by all individuals in any area where an air or gas test is being conducted.

1833 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1834 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80  
1835 psi as measured by accurate gauges graduated to no more than three times the test pressure.

1836 6. The pressure gauge shall be monitored during the test period, which should not exceed 15  
1837 minutes.

1838 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or  
1839 gases should be vented, and test balls and plugs should be removed with caution."

1840 (6) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.  
1841 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in  
1842 accordance with Utah Administrative Code, R309-305."

1843 Section 23. Section **15A-3-304** is amended to read:

1844 **15A-3-304. Amendments to Chapter 4 of IPC.**

1845 (1) In IPC, Table 403.1, the following changes are made:

1846 (a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,  
1847 Minimum Number of Required Plumbing [~~Facilities~~<sup>a, h</sup>] Fixtures<sub>a, h</sub>";

1848 (b) In [~~the~~] row [~~for~~] number "3", for "E" occupancy<sub>2</sub> in the field for "OTHER"<sub>2</sub>, a new  
1849 footnote [~~i~~] g is added.

1850 (c) In [~~the~~] row number "5", for "I-4 Adult day care and child day care" occupancy<sub>2</sub> in

1851 the field for "OTHER", a new footnote [i] g is added.

1852 (d) A new footnote [h] f is added as follows: "FOOTNOTE: [h] f. When provided, in  
1853 public toilet facilities, there shall be an equal number of diaper changing facilities in male toilet  
1854 rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of  
1855 ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper  
1856 Changing Tables for Commercial Use."

1857 (e) A new footnote [i] g is added to the table as follows: "FOOTNOTE [i] g:  
1858 Non-residential child care facilities shall comply [~~with additional sink requirements of Utah~~  
1859 ~~Administrative Code R430-100-4.]~~ with the additional requirements for sinks in administrative  
1860 rule made by the Department of Health."

1861 (2) A new IPC, Section 406.3, is added as follows: "406.3 Automatic clothes washer  
1862 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in  
1863 accordance with Section 504.7."

1864 (3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All  
1865 public toilet rooms in A & E occupancies and M occupancies with restrooms having multiple  
1866 water closets or urinals shall be equipped with at least one floor drain."

1867 (4) IPC, Section 423.3, is deleted.

1868 Section 24. Section **15A-3-305** is amended to read:

1869 **15A-3-305. Amendments to Chapter 5 of IPC.**

1870 (1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic  
1871 supports. [~~Appliances designed to be fixed in position shall be fastened or anchored in an~~  
1872 ~~approved manner. Water]~~ As a minimum requirement, water heaters shall be anchored or  
1873 strapped to resist horizontal displacement caused by earthquake motion. Strapping shall be at  
1874 points within the upper one-third and lower one-third of the appliance's vertical dimensions.  
1875 [~~At the lower point, the strapping shall maintain a minimum distance of 4 inches (102 mm)~~  
1876 ~~above the controls.]"~~

1877 (2) In IPC, Section 504.7.2, the following is added at the end of the section: "When  
1878 permitted by the code official, the pan drain may be directly connected to a soil stack, waste  
1879 stack, or branch drain. The pan drain shall be individually trapped and vented as required in  
1880 Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap  
1881 shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type

1882 floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1883 (3) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation. A  
1884 water heater pan shall be considered an emergency receptor designated to receive the discharge  
1885 of water from the water heater only and shall not receive the discharge from any other fixtures,  
1886 devises, or equipment."

1887 Section 25. Section **15A-3-306** is amended to read:

1888 **15A-3-306. Amendments to Chapter 6 of IPC.**

1889 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual  
1890 water supply. Where a potable public water supply is not available, individual sources of  
1891 potable water supply shall be utilized provided that the source has been developed in  
1892 accordance with Utah Code, Sections [73-3-1](#), [73-3-3](#), and [73-3-25](#), as administered by the  
1893 Department of Natural Resources, Division of Water Rights. In addition, the quality of the  
1894 water shall be approved by the local health department having jurisdiction. The source shall  
1895 supply sufficient quantity of water to comply with the requirements of this chapter."

1896 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are  
1897 deleted.

1898 (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated  
1899 metering faucets for food service establishments. Self closing or manually operated metering  
1900 faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the  
1901 faucet."

1902 (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water  
1903 pressure booster systems. Water pressure booster systems shall be provided as required by  
1904 Section 606.5.1 through 606.5.11."

1905 (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited  
1906 installation. In no case shall a booster pump be allowed that will lower the pressure in the  
1907 public main to less than the minimum water pressure specified in Utah Administrative Code  
1908 R309-105-9."

1909 (6) In IPC, Section 608.1, the words "and pollution" are added after the word  
1910 "contamination."

1911 [~~(7) IPC, Table 608.1, is deleted and replaced with the following:~~]

1912 [

1913	"TABLE 608.1			
1914	Application of Back Flow Preventers			
1915	DEVICE	DEGREE OF HAZARD <sup>a</sup>	APPLICATION <sup>b</sup>	APPLICABLE STANDARDS
1916	<del>BACKFLOW PREVENTION ASSEMBLIES:</del>			
1917	Double check backflow prevention assembly and double check fire protection backflow prevention assembly	Low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1
1918	Double check detector fire protection backflow prevention assemblies	Low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1048
1919	Pressure vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1020, CSA B64.1.2
1920	Reduced pressure principle backflow prevention assembly and reduced pressure principle fire protection backflow assembly	High or low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1013, AWWA C511, CSA B64.4, CSA B64.4.1
1921	Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backpressure or backsiphonage (Fire Sprinkler Systems)	ASSE 1047
1922	Spill-resistant vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1056
1923	<del>BACKFLOW PREVENTER PLUMBING DEVICES:</del>			

1924	Antisiphon-type fill valves for gravity water closet flush tanks	High hazard	Backsiphonage only	ASSE 1002, CSA B125.3
1925	Backflow preventer for carbonated beverage machines	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1022
1926	Backflow preventer with intermediate atmospheric vents	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1012, CSA B64.3
1927	Dual check valve type backflow preventers	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 1"	ASSE 1024, CSA B64.6
1928	Hose connection backflow preventer	High or low hazard	Backsiphonage only Sizes 1/2" - 1"	ASSE 1052, CSA B64.2, B64.2.1
1929	Hose connection vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2", 3/4", 1"	ASSE 1011, CAN/CSA B64.1.1
1930	Atmospheric type vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2" - 4"	ASSE 1001, CSA B64.1.1
1931	Vacuum breaker wall hydrants, frost resistant, automatic draining type	High or low hazard	Backsiphonage only Sizes 3/4", 1"	ASSE 1019, CSA B64.2.2
1932	<del>OTHER MEANS or METHODS:</del>			
1933	Air gap	High or low hazard	Backsiphonage only	ASME A112.1.2
1934	Air gap fittings for use with plumbing fixtures, appliances and appurtenances	High or low hazard	Backpressure or backsiphonage	ASME A112.1.3
1935	For SI: 1 inch = 25.4 mm			

1936 a. ~~Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)~~

1937 b. ~~See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage (Section 202)~~

1938 ~~Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter."~~

1939 ] (7) In IPC, Section 608.1, the following subsections are added as follows:

1940 "608.1.1 General Installation Criteria.

1941 An assembly shall not be installed more than five feet above the floor unless a permanent  
 1942 platform is installed. The assembly owner, where necessary, shall provide devices or structures  
 1943 to facilitate testing, repair, and maintenance and to insure the safety of the backflow technician.

1944 608.1.2 Specific Installation Criteria.

1945 608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.

1946 A reduced pressure principle backflow prevention assembly shall be installed as follows:

1947 a. The assembly shall not be installed in a pit.

1948 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,  
 1949 including a sanitary sewer, storm drain, or vent.

1950 c. The assembly shall be installed in a horizontal position, unless the assembly is listed or  
 1951 approved for vertical installation in accordance with Section 303.4.

1952 d. The bottom of each assembly shall be installed a minimum of 12 inches above the ground or  
 1953 the floor.

1954 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
 1955 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1956 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

1957 A double check valve backflow prevention assembly shall be installed as follows:

1958 a. The assembly shall be installed in a horizontal position unless the assembly is listed or  
 1959 approved for vertical installation.

1960 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the floor.

1961 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
 1962 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1963 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance

1964 around all sides of the vault, including the floor and roof or ceiling, with adequate room for  
1965 testing and maintenance.

1966 608.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker  
1967 Assembly.

1968 A pressure vacuum break assembly and spill resistant pressure vacuum breaker assembly shall  
1969 be installed as follows:

1970 a. The assembly shall not be installed in an area that could be subject to backpressure or back  
1971 drainage conditions.

1972 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and  
1973 the highest point of use.

1974 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall  
1975 be readily accessible for testing, repair, and maintenance.

1976 d. The assembly shall not be installed below ground or in a vault or pit.

1977 e. The assembly shall be installed in a vertical position."

1978 (8) In IPC, Section 608.3, the word "and" after the word "contamination" is deleted and  
1979 replaced with a comma and the words "and pollution" are added after the word "contamination"  
1980 in the first sentence.

1981 (9) In IPC, Section 608.5, the words "with the potential to create a condition of either  
1982 contamination or pollution or" are added after the word "substances".

1983 (10) In IPC, Section 608.6, the following sentence is added at the end of the paragraph:  
1984 "Any connection between potable water piping and sewer-connected waste shall be protected  
1985 by an air gap in accordance with Section 608.13.1."

1986 (11) IPC, Section 608.7, is deleted and replaced with the following: "608.7 Stop and  
1987 Waste Valves installed below grade. Combination stop-and-waste valves shall be permitted to  
1988 be installed underground or below grade. Freeze proof yard hydrants that drain the riser into  
1989 the ground are considered to be stop-and-waste valves and shall be permitted. A  
1990 stop-and-waste valve shall be installed in accordance with a manufacturer's recommended  
1991 installation instructions."

1992 (12) In IPC, Section 608.11, the following sentence is added at the end of the  
1993 paragraph: "The coating and installation shall conform to NSF Standard 61 and application of  
1994 the coating shall comply with the manufacturer's instructions."

1995 (13) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3  
1996 Backflow preventer with intermediate atmospheric vent. Backflow preventers with  
1997 intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These  
1998 devices shall be permitted to be installed on residential boilers only, without chemical  
1999 treatment, where subject to continuous pressure conditions. The relief opening shall discharge  
2000 by air gap and shall be prevented from being submerged."

2001 (14) IPC, Section 608.13.4, is deleted.

2002 (15) IPC, Section 608.13.9, is deleted and replaced with the following: "608.13.9  
2003 Chemical dispenser backflow devices. Backflow devices for chemical dispensers shall comply  
2004 with Section 608.16.7."

2005 (16) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3  
2006 Protection by a backflow preventer with intermediate atmospheric vent. Connections to  
2007 residential boilers only, without chemical treatment, shall be protected by a backflow preventer  
2008 with an intermediate atmospheric vent."

2009 (17) IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4  
2010 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type  
2011 or pressure-type vacuum breakers. Vacuum breakers shall not be installed under exhaust hoods  
2012 or similar locations that will contain toxic fumes or vapors. Fill valves shall be set in  
2013 accordance with Section 425.3.1. Atmospheric Vacuum Breakers - The critical level of the  
2014 atmospheric vacuum breaker shall be set a minimum of 6 inches (152 mm) above the flood  
2015 level rim of the fixture or device. Pipe-applied vacuum breakers shall be installed not less than  
2016 6 inches (152 mm) above the flood level rim of the fixture, receptor, or device served. No  
2017 valves shall be installed downstream of the atmospheric vacuum breaker. Pressure Vacuum  
2018 Breaker - The critical level of the pressure vacuum breaker shall be set a minimum of 12 inches  
2019 (304 mm) above the flood level of the fixture or device."

2020 (18) In IPC, Section 608.15.4.2, the following is added after the first sentence:  
2021 "Add-on-backflow prevention devices shall be non-removable. In climates where freezing  
2022 temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow  
2023 preventer shall be used."

2024 (19) IPC, Section 608.16.2, is deleted and replaced as follows: "608.16.2 Connections  
2025 to boilers. The potable supply to a boiler shall be protected by an air gap or a reduced pressure

2026 principle backflow preventer, complying with ASSE 1013, CSA B64.4 or AWWA C511.  
2027 Exception: The potable supply to a residential boiler without chemical treatment may be  
2028 equipped with a backflow preventer with an intermediate atmospheric vent complying with  
2029 ASSE 1012 or CSA CAN/CSA-B64.3."

2030 ~~[(20) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3 Heat~~  
2031 ~~exchangers. Heat exchangers shall be separated from potable water by double-wall~~  
2032 ~~construction. An air gap open to the atmosphere shall be provided between the two walls.]~~

2033 [Exceptions:]

2034 [1. ~~Single wall heat exchangers shall be permitted when all of the following conditions are~~  
2035 ~~met:]~~

2036 [a. ~~It utilizes a heat transfer medium of potable water or contains only substances which are~~  
2037 ~~recognized as safe by the United States Food and Drug Administration (FDA);]~~

2038 [b. ~~The pressure of the heat transfer medium is maintained less than the normal minimum~~  
2039 ~~operating pressure of the potable water system; and]~~

2040 [c. ~~The equipment is permanently labeled to indicate only additives recognized as safe by the~~  
2041 ~~FDA shall be used;]~~

2042 [2. ~~Steam systems that comply with paragraph 1 above;]~~

2043 [3. ~~Approved listed electrical drinking water coolers."]~~

2044 [(21)] (20) In IPC, Section 608.16.4.1, a new exception is added as follows:

2045 "Exception: All class 1 and 2 systems containing chemical additives consisting of strictly  
2046 glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against  
2047 backflow with a double check valve assembly. Such systems shall include written certification  
2048 of the chemical additives at the time of original installation and service or maintenance."

2049 [(22)] (21) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7  
2050 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the  
2051 water supply system shall be protected against backflow in accordance with Section 608.13.1,  
2052 Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8. Installation shall be  
2053 in accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated  
2054 water supply [separate from any] line, and not a sink faucet."

2055 [(23)] (22) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8  
2056 Portable cleaning equipment. Where the portable cleaning equipment connects to the water

2057 distribution system, the water supply system shall be protected against backflow in accordance  
 2058 with Section 608.13.1[~~;~~] or Section 608.13.2 [~~or Section 608.13.8~~]."

2059 [~~(24)~~] (23) A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic  
 2060 and coin operated car washes. The water supply to an automatic or coin operated car wash  
 2061 shall be protected in accordance with Section 608.13.1 or Section 608.13.2."

2062 [~~(25)~~] (24) IPC, Section 608.17, is deleted and replaced with the following: "608.17  
 2063 Protection of individual water supplies. See Section 602.3 for requirements."

2064 Section 26. Section **15A-3-308** is amended to read:

2065 **15A-3-308. Amendments to Chapter 8 of IPC.**

2066 [~~IPC, Chapter 8, is not amended.~~]

2067 In IPC, Section 802.1.1, the last sentence is deleted.

2068 Section 27. Section **15A-3-310** is amended to read:

2069 **15A-3-310. Amendments to Chapter 10 of IPC.**

2070 [~~In IPC, Section 1002.4, the following is added at the end of the paragraph: "Approved  
 2071 Means of Maintaining Trap Seals. Approved means of maintaining trap seals include the  
 2072 following, but are not limited to the methods cited:]~~

2073 [~~1. A listed trap seal primer conforming to ASSE 1018 and ASSE 1044.]~~

2074 [~~2. A hose bibb or bibbs within the same room.]~~

2075 [~~3. Drainage from an untrapped lavatory discharging to the tailpiece of those fixture  
 2076 traps which require priming. All fixtures shall be in the same room and on the same floor level  
 2077 as the trap primer.]~~

2078 [~~4. Barrier type floor drain trap seal protection device meeting ASSE Standard 1072.]~~

2079 [~~5. Deep seal p-trap".]~~

2080 IPC, Chapter 10, is not amended.

2081 Section 28. Section **15A-3-311** is amended to read:

2082 **15A-3-311. Amendments to Chapter 11 of IPC.**

2083 [~~(1) IPC, Section 1104.2, is deleted and replaced with the following: "1104.2~~

2084 ~~Combining storm and sanitary drainage prohibited. The combining of sanitary and storm  
 2085 drainage systems is prohibited."~~]

2086 (1) A new IPC, Section 1106.1.1, is added as follows:

2087 "1106.1.1 Alternate Methods.

2088 An approved alternate storm drain sizing method may be allowed."

2089 (2) IPC, Section 1109, is deleted.

2090 Section 29. Section **15A-3-313** is amended to read:

2091 **15A-3-313. Amendments to Chapter 13 of IPC.**

2092 [~~(1) In IPC, Section 1301.1, all words after the word "urinals" are deleted and the~~  
2093 ~~following sentence is added at the end: "Gray water recycling systems for subsurface landscape~~  
2094 ~~irrigation shall conform with UAC R317-401 Gray Water Systems."~~]

2095 [~~(2) A new IPC, Section 1301.1.1, is added as follows: "1301.1.1 Recording. The~~  
2096 ~~existence of a gray water recycling system shall be recorded on the deed of ownership for that~~  
2097 ~~property. The certificate of occupancy shall not be issued until the documentation of the~~  
2098 ~~recording required under this section is completed by the owner."~~]

2099 [~~(3) In IPC, Section 1301.2, the words "and systems for subsurface landscape irrigation~~  
2100 ~~shall comply with Section 1303" are deleted.]~~

2101 [~~(4) IPC, Section 1301.6, is deleted and replaced with the following: "1301.6 Potable~~  
2102 ~~water connections. The potable water supply to any building utilizing a gray water recycling~~  
2103 ~~system shall be protected against backflow by a reduced pressure backflow prevention~~  
2104 ~~assembly installed in accordance with Section 608."~~]

2105 [~~(5) In IPC, Section 1301.7, the following is added at the end of the sentence: "and~~  
2106 ~~other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;~~  
2107 ~~without objectionable odor; non-highly pigmented; and will not interfere with the operation of~~  
2108 ~~the sewer treatment facility."~~]

2109 [~~(6) In IPC, Section 1302.3, in the second sentence, the following is added between the~~  
2110 ~~words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap~~  
2111 ~~installed".]~~

2112 [~~(7) IPC, Section 1303, is deleted and replaced with the following: "Section 1303~~  
2113 ~~SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems~~  
2114 ~~utilized for subsurface irrigation for single family residences shall comply with the~~  
2115 ~~requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized~~  
2116 ~~for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design~~  
2117 ~~Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite~~  
2118 ~~Waterwaste Systems."~~]

2119 (1) A new IPC, Section 1301.4.1, is added as follows:

2120 "1301.4.1 Recording.

2121 The existence of a nonpotable water system shall be recorded on the deed of ownership for the  
2122 property. The certificate of occupancy shall not be issued until the documentation for the  
2123 recording required under this section is completed by the property owner."

2124 (2) IPC, Section 1301.5, is deleted and replaced with the following:

2125 "1301.5 Potable water connections.

2126 Where a potable water system is connected to a nonpotable water system, the potable water  
2127 supply shall be protected against backflow by a reduced pressure backflow prevention  
2128 assembly or an air gap installed in accordance with Section 608."

2129 (3) IPC, Section 1301.9.5, is deleted and replaced with the following:

2130 "1301.9.5 Makeup water.

2131 Where an uninterrupted supply is required for the intended application, potable or reclaimed  
2132 water shall be provided as a source of makeup water for the storage tank. The makeup water  
2133 supply shall be protected against backflow by a reduced pressure backflow prevention  
2134 assembly or an air gap installed in accordance with Section 608. A full-open valve located on  
2135 the makeup water supply line to the storage tank shall be provided. Inlets to the storage tank  
2136 shall be controlled by fill valves or other automatic supply valves installed to prevent the tank  
2137 from overflowing and to prevent the water level from dropping below a predetermined point.  
2138 Where makeup water is provided, the water level shall not be permitted to drop below the  
2139 source water inlet or the intake of any attached pump."

2140 (4) IPC, Section 1302.12.4, is deleted and replaced with the following:

2141 "1302.12.4 Inspection and testing of backflow prevention assemblies.

2142 Testing of a backflow preventer shall be conducted in accordance with Sections 312.10.1,  
2143 312.10.2, and 312.10.3."

2144 (5) IPC, Section 1303.15.6, is deleted and replaced with the following:

2145 "1303.15.6 Inspection and testing of backflow prevention assemblies.

2146 Testing of a backflow prevention assembly shall be conducted in accordance with Sections  
2147 312.10.1, 312.10.2, and 312.10.3."

2148 (6) IPC, Section 1304.4.2, is deleted and replaced with the following:

2149 "1304.4.2 Inspection and testing of backflow prevention assemblies.

2150 Testing of a backflow preventer or backwater valve shall be conducted in accordance with  
 2151 Sections 312.10.1, 312.10.2, and 312.10.3."

2152 Section 30. Section **15A-3-314** is amended to read:

2153 **15A-3-314. Amendments to Chapter 14 of IPC.**

2154 [~~(1) In IPC, Chapter 14, the following referenced standard is added under ASSE:]~~

2155 [

"Standard reference number	Title	Referenced in code section number
<del>1072-2007</del>	<del>Performance Requirements for Barrier Type Floor Drain Trap Seal Protection Devices</del>	<del>1004.2"</del>

2158 ] [~~(2) In IPC, Chapter 14, the following referenced standard is added:]~~

2159 [

"Standard reference number	Title	Referenced in code section number
<del>USC-FCCCHR 10th Edition Manual of Cross Connection Control</del>	<del>Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531</del>	<del>Table 608.1"</del>

2162 ] IPC, Chapter 14, is deleted and replaced with the following:

2163 "1401. Subsurface Landscape Irrigation Systems.

2164 Gray water recycling systems utilized for subsurface irrigation for single-family residences

2165 shall comply with the requirements of UAC R317-401, Gray Water Systems. Gray water

2166 recycling systems utilized for subsurface irrigation for other occupancies shall comply with

2167 UAC R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal, and

2168 UAC R317-4, Onsite Waterwaste Systems."

2169 Section 31. Section **15A-3-315** is enacted to read:

2170 **15A-3-315. Amendments to Chapter 15 of IPC.**

2171 In IPC, Chapter 15, the following referenced standard is added:

2172	<u>"Standard reference number</u>	<u>Title</u>	<u>Referenced in code section number</u>
2173	<u>USC-FCCCHR 10th Edition Manual of Cross Connection Control</u>	<u>Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531</u>	<u>Table 608.1"</u>

2174 Section 32. Section **15A-3-401** is amended to read:

2175 **15A-3-401. General provisions.**

2176 The following are adopted as amendments to the IMC to be applicable statewide:

2177 [~~(1) In IMC, Section 202, the definition for "CONDITIONED SPACE" is deleted and~~  
2178 ~~replaced with the following: "CONDITIONED SPACE. An area, room, or space enclosed~~  
2179 ~~within the building thermal envelope that is directly heated or cooled, or indirectly heated or~~  
2180 ~~cooled by any of the following means:]~~

2181 [~~1. Openings directly into an adjacent conditioned space.]~~

2182 [~~2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.]~~

2183 [~~3. Un-insulated duct, piping or other heat or cooling source within the space."]~~

2184 [(2) In IMC, Section 403.2.1, Item 3, is deleted and replaced with the following:

2185 "Except as provided in Table 403.3, Note h, where mechanical exhaust is required by Note b in  
2186 Table 403.3, recirculation of air from such spaces is prohibited. All air supplied to such spaces  
2187 shall be exhausted, including any air in excess of that required by Table 403.3."

2188 [(3) In IMC, Table 403.3, Note b, is deleted and replaced with the following: "Except  
2189 as provided in Note h, mechanical exhaust required and the recirculation of air from such  
2190 spaces is prohibited (see Section 403.2.1, Item 3)."]

2191 [(4) In IMC, Table 403.3, Note h is deleted and replaced with the following:]

2192 ["1. For a nail salon where a nail technician files or shapes an acrylic nail, as defined  
2193 by rule by the Division of Occupational and Professional Licensing, in accordance with Title  
2194 63G, Chapter 3, Utah Administrative Rulemaking Act, each nail station where a nail technician  
2195 files or shapes an acrylic nail shall be provided with:]

2196 [a. a source capture system capable of filtering and recirculating air to inside space not

2197 less than 50 cfm per station; or]

2198 [b. a source capture system capable of exhausting not less than 50 cfm per station."]

2199 [2. Except as provided in paragraph 3, the requirements described in paragraph 1 apply  
2200 beginning on July 1, 2020.]

2201 [3. The requirements described in paragraph 1 apply beginning on July 1, 2014 if the  
2202 nail salon is under or begins new construction or remodeling on or after July 1, 2014.]

2203 [(5) In IMC, Section 403, a new Section 403.8 is added as follows: "Retrospective  
2204 effect. Removal, alteration, or abandonment shall not be required, and continued use and  
2205 maintenance shall be allowed, for a ventilation system within an existing installation that  
2206 complies with the requirements of this Section 403 regardless of whether the ventilation system  
2207 satisfied the minimum ventilation rate requirements of prior law."]

2208 [(6) In IMC, Table 603.4, in the section "Round ducts and enclosed rectangular ducts",  
2209 the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced with  
2210 "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size, "0.013"  
2211 under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under aluminum  
2212 minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is deleted.]

2213 [(7)] (1) In IMC, Section 1004.2, the first sentence is deleted and replaced with the  
2214 following: "[Boilers] In accordance with Title 34A, Chapter 7, Safety, and requirements made  
2215 by rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the  
2216 Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except those  
2217 located in private residences or in apartment houses of less than five family units. Boilers shall  
2218 be installed in accordance with their listing and labeling, with minimum clearances as  
2219 prescribed by the manufacturer's installation instructions and the state boiler code, whichever is  
2220 greater."

2221 [(8)] (2) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word  
2222 "boilers".

2223 [(9)] (3) IMC, Section 1101.10, is deleted.

2224 (4) In IMC, Section 1209.3, the following words are added at the end of the section:  
2225 "or other methods approved for the application."

2226 Section 33. Section 15A-3-501 is amended to read:

2227 **15A-3-501. General provisions.**

2228 The following are adopted as an amendment to the IFGC to be applicable statewide:

2229 (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter  
2230 protection. Fuel gas services shall be in an approved location and/or provided with structures  
2231 designed to protect the fuel gas meter and surrounding piping from physical damage, including  
2232 falling, moving, or migrating ice and snow. If an added structure is used, it must still provide  
2233 access for service and comply with the IBC or the IRC."

2234 (2) IFGC, Section 409.5.3, is deleted.

2235 (3) In IFGC, Section 631.2, the following sentence is inserted before the first sentence:  
2236 "[~~Boilers~~] In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by  
2237 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor  
2238 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in  
2239 private residences or in apartment houses of less than five family units. Boilers shall be  
2240 installed in accordance with their listing and labeling, with minimum clearances as prescribed  
2241 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

2242 Section 34. Section **15A-3-601** is amended to read:

2243 **15A-3-601. General provision.**

2244 The following are adopted as amendments to the NEC to be applicable statewide:

2245 (1) The IRC provisions are adopted as the residential electrical standards applicable to  
2246 installations applicable under the IRC. All other installations shall comply with the adopted  
2247 NEC.

2248 [~~(2) In NEC, Section 310.15(B)(7), the second sentence is deleted and replaced with~~  
2249 ~~the following: "For application of this section, the main power feeder shall be the feeder(s)~~  
2250 ~~between the main disconnect and the panelboard(s)."~~]

2251 (2) NEC, Section 240.87(B), is modified to add the following as an additional  
2252 approved equivalent means:

2253 "6. An instantaneous trip function set at or below the available fault current."

2254 Section 35. Section **15A-3-701** is amended to read:

2255 **15A-3-701. General provisions.**

2256 The following is adopted as an amendment to the IECC to be applicable statewide:

2257 [~~(1) In IECC, Section C202, the definition for "CONDITIONED SPACE" is deleted~~  
2258 ~~and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed~~

2259 within the building thermal envelope that is directly heated or cooled, or indirectly heated or  
2260 cooled by any of the following means:]

2261 [1. ~~Openings directly into an adjacent conditioned space.~~]

2262 [2. ~~An un-insulated floor, ceiling or wall adjacent to a conditioned space.~~]

2263 [3. ~~Un-insulated duct, piping or other heat or cooling source within the space.~~"]

2264 [(2) ~~In IECC, Section C404.4, a new exception is added as follows: "Exception: Heat~~  
2265 ~~traps, other than the arrangement of piping and fittings, shall be prohibited unless a means of~~  
2266 ~~controlling thermal expansion can be ensured as required in the IPC Section 607.3."~~]

2267 (1) In IECC, Section C403.2.9.1.3, the words "by the designer" are deleted.

2268 [(3)] (2) In IECC, Section R103.2, all words after the words "herein governed." are  
2269 deleted and replaced with the following: "Construction documents include all documentation  
2270 required to be submitted in order to issue a building permit."

2271 [(4) ~~In IECC, Section R202, the definition for "CONDITIONED SPACE" is deleted~~  
2272 ~~and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed~~  
2273 ~~within the building thermal envelope that is directly heated or cooled, or indirectly heated or~~  
2274 ~~cooled by any of the following means:]~~

2275 [1. ~~Openings directly into an adjacent conditioned space.~~]

2276 [2. ~~An un-insulated floor, ceiling or wall adjacent to a conditioned space.~~]

2277 [3. ~~Un-insulated duct, piping or other heat or cooling source within the space.~~"]

2278 [(5)] (3) In IECC, Section R303.3, all wording after the first sentence is deleted.

2279 (4) In IECC, Section R401.2, a new number 4 is added as follows:

2280 "4. Compliance may be shown by demonstrating a result of "0 percent better than code" using  
2281 the RESCheck "2012 Utah Energy Conservation Code.""

2282 [(6)] (5) In IECC, Table [R402.1.1 and Table R402.1.3, the rows for "climate zone 3",  
2283 "climate zone 5 and Marine 4, and climate zone 6" are deleted and replaced and] R402.2, in the  
2284 column entitled MASS WALL R-VALUE, a new footnote j is added as follows:

2285 [

"TABLE R402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT <sup>a</sup>

2286

2287

2288	CLIMATE ZONE	FENESTRATION U-FACTOR <sup>7</sup>	SKYLIGHT <sup>8</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>7a</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>7b</sup>	FLOOR R-VALUE	BASEMENT <sup>c</sup> WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE <sup>e</sup> WALL R-VALUE
2289	3	0.65	0.65	0.40	30	15	5	19	0	0	5/13
2290	5 and Marine 4	0.35	0.60	NR	38	19 or 13 + 5 <sup>h</sup>	13	30 <sup>f</sup>	10/13	10, 2 ft	10/13
2291	6	0.35	0.60	NR	49	19 or 13 + 5 <sup>h</sup>	15	30 <sup>f</sup>	10/13	10, 4 ft	10/13
2292	j. Log walls complying with ICC400 and with a minimum average wall thickness of 5" or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met.										

2293 **TABLE R402.1.3 EQUIVALENT U-FACTORS<sup>g</sup>**

2294	CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT <sup>8</sup> U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR <sup>7</sup>	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
2295	3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
2296	5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.033	0.059	0.065
2297	6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065

2298 "]j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches  
 2299 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31  
 2300 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil, 84  
 2301 AFUE, and all other component requirements are met."

2302 [~~(7)~~] In IECC, Section R402.2.1, the last sentence is deleted.]

2303 [~~(8)~~] In IECC, Section R402.2.2, the last sentence is deleted.]

2304 [~~(9)~~] In IECC, Section R402.3.3, the last sentence is deleted.]

2305 [~~(10)~~] In IECC, Section R402.3.4, the last sentence is deleted.]

2306 [~~(11)~~] (6) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted  
 2307 and replaced with the word "or".

2308 [~~(12)~~] (7) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with  
 2309 the following: "Where allowed by the [building] code official, the builder may certify  
 2310 compliance to components criteria for items which may not be inspected during regularly  
 2311 scheduled inspections."

2312 [~~(13)~~] (8) In IECC, Section R402.4.1.2, the following changes are made:

2313 (a) In the first sentence, the words "in Climate Zones 1 and 2, and [3] three air changes

2314 per hour in [~~Zone~~] Climate Zones 3 through 8" are deleted.

2315 (b) In the third sentence, the [~~words "Where required by the building official," and the~~  
2316 word "third" ~~[are]~~ is deleted.

2317 (c) The following sentence is inserted after the third sentence: "The following parties  
2318 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed  
2319 contractors who have completed training provided by Blower Door Test equipment  
2320 manufacturers or other comparable training."

2321 [~~(14) In IECC, Section R402.4.4, the last sentence is deleted.]~~

2322 [~~(15) In IECC, Section R403.2.2, the requirements for duct tightness testing are deleted  
2323 and replaced with the following:]~~

2324 [~~"1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283  
2325 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor space when tested at a pressure  
2326 differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air  
2327 handler enclosure. All register boots shall be taped or otherwise sealed during the test.]~~

2328 [~~2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per  
2329 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area when tested at a pressure differential of at  
2330 least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler  
2331 enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is  
2332 not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212  
2333 L/min) per 100 square feet (9.29 m<sup>2</sup>) of conditioned floor area."]~~

2334 [~~(16)~~] (9) In IECC, Section [~~R403.2.2~~] R403.3.3, the exception for [~~total~~] duct air  
2335 leakage testing is deleted and replaced with the following: "Exception: The total leakage test is  
2336 not required for systems with all air handlers and at least [~~50%~~] 65% of all ducts (measured by  
2337 length) located entirely within the building thermal envelope."

2338 (10) In IECC, Section R403.3.3, the following is added after the exception:

2339 "The following parties shall be approved to conduct testing:

2340 1. Parties certified by BPI or RESNET.

2341 2. Licensed contractors who have completed training provided by Duct Test equipment  
2342 manufacturers or other comparable training."

2343 (11) In IECC, Section R403.3.4, in Subsection 1, the number 4 is changed to 6, the  
2344 number 113.3 is changed to 170, the number 3 is changed to 5, and the number 85 is changed

2345 to 114.6, and in Subsection 2, the number 4 is changed to 8 and the number 113.3 is changed to  
 2346 226.5.

2347 ~~[(17)] (12)~~ In IECC, Section ~~[R403.2.3]~~ R403.3.5, the words "or plenums" are deleted.

2348 ~~[(18) In IECC, Section R403.4.2, the sentences for "3." and "9." and the last sentence~~  
 2349 ~~are deleted.]~~

2350 ~~[(19) In IECC, Section R403.5, the first sentence is deleted.]~~

2351 ~~[(20) IECC, Section R404.1 and the exception are deleted, and R404.1.1 becomes~~  
 2352 ~~R404.1.]~~

2353 ~~[(21) In IECC, Table R405.5.2(1), the following changes are made under the column~~  
 2354 ~~STANDARD-REFERENCE-DESIGN:]~~

2355 ~~[(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per~~  
 2356 ~~hour in Zones 3 through 8" are deleted.]~~

2357 ~~[(b) In the row "Heating systems<sup>f, g</sup>", the standard reference design is deleted and~~  
 2358 ~~replaced with the following:]~~

2359 ~~["Fuel Type: same as proposed design]~~

2360 ~~[Efficiencies:]~~

2361 ~~[Electric: air source heat pump with prevailing federal minimum efficiencies]~~

2362 ~~[Nonelectric furnaces: natural gas furnace with prevailing federal minimum~~  
 2363 ~~efficiencies]~~

2364 ~~[Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies]~~

2365 ~~[Capacity: sized in accordance with Section N1103.6"]~~

2366 ~~[(c) In the row "Cooling systems<sup>f, h, i</sup>" the words "As proposed" are deleted and replaced~~  
 2367 ~~with the following:]~~

2368 ~~["Fuel Type: Electric]~~

2369 ~~[Efficiency: in accordance with prevailing federal minimum standards"]~~

2370 ~~[(d) In the row "Service water heating<sup>f, g, h, i</sup>", the words "As proposed" are deleted and~~  
 2371 ~~replaced with the following:]~~

2372 ~~["Fuel Type: same as proposed design]~~

2373 ~~[Efficiency: in accordance with prevailing federal minimum standards]~~

2374 ~~[Tank Temperature: 120° F"]~~

2375 ~~[(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced~~

2376 with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to  
 2377 both the heating and cooling system efficiencies."

2378 [(22) In IECC, Table R405.5.2(2), the number "0.80" is inserted under "Forced air  
 2379 systems" for "Distribution system components located in unconditioned space".]

2380 [(23) The RESCheck Software adopted by the United States Department of Energy and  
 2381 modified to meet the requirements of this section shall be used to verify compliance with this  
 2382 section. The software shall address the Total UA alternative approach and account for  
 2383 Equipment Efficiency Trade-offs when applicable per the standard reference design as  
 2384 amended.]

2385 (13) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are  
 2386 renumbered.

2387 (14) In IECC, Section R406.2, the last sentence and exception are deleted.

2388 (15) In IECC, Section R406.4, the table is deleted and replaced with the following:

2389 TABLE R406.4

2390 MAXIMUM ENERGY RATING INDEX

<u>2391CLIMATE ZONE</u>	<u>ENERGY RATING INDEX</u>
<u>23923</u>	<u>65</u>
<u>23935</u>	<u>69</u>
<u>23946</u>	<u>68</u>

2395 Section 36. Section **15A-3-801** is amended to read:

2396 **Part 8. Statewide Amendments to International Existing Building Code**

2397 **15A-3-801. General provisions.**

2398 [Mobile homes built before June 15, 1976 that are subject to relocation, building  
 2399 alteration, remodeling, or rehabilitation shall comply with the following:]

2400 [(1) Related to exits and egress windows:]

2401 [(a) Egress windows. The home has at least one egress window in each bedroom, or a  
 2402 window that meets the minimum specifications of the U.S. Department of Housing and Urban  
 2403 Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS)  
 2404 program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and 3280.404 for

2405 ~~manufactured homes. These standards require the window to be at least 22 inches in the~~  
2406 ~~horizontal or vertical position in its least dimension and at least five square feet in area. The~~  
2407 ~~bottom of the window opening shall be no more than 36 inches above the floor, and the locks~~  
2408 ~~and latches and any window screen or storm window devices that need to be operated to permit~~  
2409 ~~exiting shall not be located more than 54 inches above the finished floor.]~~

2410 ~~[(b) Exits. The home is required to have two exterior exit doors, located remotely from~~  
2411 ~~each other, as required in MHCSS 3280.105. This standard requires that single-section homes~~  
2412 ~~have the doors no less than 12 feet, center-to-center, from each other, and multisection home~~  
2413 ~~doors no less than 20 feet center-to-center from each other when measured in a straight line,~~  
2414 ~~regardless of the length of the path of travel between the doors. One of the required exit doors~~  
2415 ~~must be accessible from the doorway of each bedroom and no more than 35 feet away from any~~  
2416 ~~bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high clear~~  
2417 ~~opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each~~  
2418 ~~exterior door other than screen/storm doors shall have a key-operated lock that has a passage~~  
2419 ~~latch; locks shall not require the use of a key or special tool for operation from the inside of the~~  
2420 ~~home.]~~

2421 ~~[(2) Related to flame spread:]~~

2422 ~~[(a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or~~  
2423 ~~water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants~~  
2424 ~~and other trim materials two inches or less in width used to finish adjacent surfaces within~~  
2425 ~~these spaces are exempt from this provision, provided all joints are supported by framing~~  
2426 ~~members or materials with a flame spread rating of 25 or less. Combustible doors providing~~  
2427 ~~interior or exterior access to furnace and water heater spaces shall be covered with materials of~~  
2428 ~~limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be~~  
2429 ~~interrupted for louvers ventilating the space. However, the louvers shall not be of materials of~~  
2430 ~~greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference~~  
2431 ~~MHCSS 3280.203.]~~

2432 ~~[(b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range~~  
2433 ~~(surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or~~  
2434 ~~both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.~~  
2435 ~~Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical~~

2436 clearance above the cooking top of not less than 24 inches to the bottom of combustible  
2437 cabinets, as required by MHCSS 3280.204(e).]

2438 [~~(3) Related to smoke detectors:~~]

2439 [~~(a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway  
2440 or space communicating with each bedroom area between the living area and the first bedroom  
2441 door, unless a door separates the living area from that bedroom area, in which case the detector  
2442 shall be installed on the living-area side, as close to the door as practicable, as required by  
2443 MHCSS 3280.208. Homes with bedroom areas separated by anyone or combination of  
2444 common-use areas such as a kitchen, dining room, living room, or family room (but not a  
2445 bathroom or utility room) shall be required to have one detector for each bedroom area. When  
2446 located in the hallways, the detector shall be between the return air intake and the living areas.]~~

2447 [~~(b) Switches and electrical connections. Smoke detectors shall have no switches in  
2448 the circuit to the detector between the over-current protection device protecting the branch  
2449 circuit and the detector. The detector shall be attached to an electrical outlet box and connected  
2450 by a permanent wiring method to a general electrical circuit. The detector shall not be placed  
2451 on the same branch circuit or any circuit protected by a ground-fault circuit interrupter.]~~

2452 [~~(4) Related to solid-fuel-burning stoves/fireplaces:~~]

2453 [~~(a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning,  
2454 factory-built fireplaces, and fireplace stoves may be used in manufactured homes, provided that  
2455 they are listed for use in manufactured homes and installed according to their  
2456 listing/manufacturer's instructions and the minimum requirements of MHCSS 3280.709(g).]~~

2457 [~~(b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped  
2458 with an integral door or shutters designed to close the fire chamber opening and shall include  
2459 complete means for venting through the roof, a combustion air inlet, a hearth extension, and  
2460 means to securely attach the unit to the manufactured home structure.]~~

2461 [~~(i) Chimney. A listed, factory-built chimney designed to be attached directly to the  
2462 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device  
2463 and spark arrester, shall be required. The chimney shall extend at least three feet above the part  
2464 of the roof through which it passes and at least two feet above the highest elevation of any part  
2465 of the manufactured home that is within 10 feet of the chimney.]~~

2466 [~~(ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be~~

2467 installed in accordance with the terms of listings and the manufacturer's instruction. A  
2468 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to  
2469 prevent material from the hearth from dropping on the area beneath the manufactured home.]

2470 [(iii) ~~Hearth.~~ The hearth extension shall be of noncombustible material that is a  
2471 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches  
2472 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the  
2473 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.]

2474 [(5) ~~Related to electrical wiring systems:~~]

2475 [(a) ~~Testing.~~ All electrical systems shall be tested for continuity in accordance with  
2476 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to  
2477 demonstrate that all equipment is connected and in working order; and given a polarity check,  
2478 to determine that connections are proper.]

2479 [(b) ~~5.2 Protection.~~ The electrical system shall be properly protected for the required  
2480 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches  
2481 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be  
2482 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the  
2483 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum  
2484 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.]

2485 [(6) ~~Related to replacement furnaces and water heaters:~~]

2486 [(a) ~~Listing.~~ Replacement furnaces or water heaters shall be listed for use in a  
2487 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be  
2488 listed for use with the furnace or water heater.]

2489 [(b) ~~Securement and accessibility.~~ The furnace and water heater shall be secured in  
2490 place to avoid displacement. Every furnace and water heater shall be accessible for servicing,  
2491 for replacement, or both as required by MHCSS 3280.709(a).]

2492 [(c) ~~Installation.~~ Furnaces and water heaters shall be installed to provide complete  
2493 separation of the combustion system from the interior atmosphere of the manufactured home,  
2494 as required by MHCSS.]

2495 [(i) ~~Separation.~~ The required separation may be achieved by the installation of a  
2496 direct-vent system (sealed combustion system) furnace or water heater or the installation of a  
2497 furnace and water heater venting and combustion systems from the interior atmosphere of the

2498 ~~home. There shall be no doors, grills, removable access panels, or other openings into the~~  
2499 ~~enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,~~  
2500 ~~etc., shall be sealed.]~~

2501 ~~[(ii) Water heater. The floor area in the area of the water heater shall be free from~~  
2502 ~~damage from moisture to ensure that the floor will support the weight of the water heater.]~~

2503 The following are adopted as amendments to the IEBC and are applicable statewide:

2504 (1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See  
2505 Code Official."

2506 (2) In Section 202, the definition for "code official" is deleted and replaced with the  
2507 following:

2508 "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)  
2509 charged with the administration and enforcement of this code."

2510 (3) In Section 202, the definition for existing buildings is deleted and replaced with the  
2511 following:

2512 "EXISTING BUILDING. A building that is not a dangerous building and that was either  
2513 lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the  
2514 code official."

2515 (4) In Section 301.1, the exception is deleted.

2516 (5) Section 403.5 is deleted and replaced with the following:

2517 "403.5 Bracing for unreinforced masonry parapets and other appendages upon reroofing.

2518 Where the intended alteration requires a permit for reroofing and involves removal of roofing  
2519 materials from more than 25 percent of the roof area of a building assigned to Seismic Design  
2520 Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such  
2521 as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of  
2522 bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of  
2523 such items. For purposes of this section, design seismic forces need not be taken greater than  
2524 75 percent of those that would be required for the design of similar nonstructural components  
2525 in new buildings of similar purpose and location."

2526 (6) In Section 705.1, Exception number 3, the following is added at the end of the  
2527 exception:

2528 "This exception does not apply if the existing facility is undergoing a change of occupancy

2529 classification."

2530 (7) Section 707.3.1 is deleted and replaced with the following:

2531 "707.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.

2532 Where a permit is issued for reroofing more than 25 percent of the roof area of a building

2533 assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced

2534 masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work

2535 shall include installation of bracing to resist the reduced International Building Code level

2536 seismic forces as specified in Section 301.1.4.2 of this code unless an evaluation demonstrates

2537 compliance of such items."

2538 (8) (a) Section 1007.3.1 is deleted and replaced with the following:

2539 "1007.3.1 Compliance with the International Building Code Level Seismic Forces.

2540 When a building or portion thereof is subject to a change of occupancy such that a change in

2541 the nature of the occupancy results in a higher risk category based on Table 1604.5 of the

2542 International Building Code or when such change of occupancy results in a design occupant

2543 load increase of 100% or more, the building shall conform to the seismic requirements of the

2544 International Building Code for the new risk category."

2545 (b) Section 1007.3.1, exceptions 1- 3 remain unchanged.

2546 (c) In Section 1007.3.1, add a new exception 4 as follows:

2547 "4. Where the design occupant load increase is less than 25 occupants and the occupancy

2548 category does not change."

2549 (9) In Section 1012.7.3, exception 2 is deleted.

2550 (10) In Section 1012.8.2, number 7 is added as follows:

2551 "7. When a change of occupancy in a building or portion of a building results in a Group R-2

2552 occupancy, not less than 20 percent of the dwelling or sleeping units shall be Type B dwelling

2553 or sleeping units. These dwelling or sleeping units may be located on any floor of the building

2554 provided with an accessible route. Two percent, but not less than one unit, of the dwelling or

2555 sleeping units shall be Type A dwelling units."

2556 Section 37. Section **15A-3-901** is enacted to read:

2557 **Part 9. Installation and Safety Requirements for Mobile Homes**

2558 **Built Before June 15, 1976**

2559 **15A-3-901. General provisions.**

2560 Mobile homes built before June 15, 1976, that are subject to relocation, building  
2561 alteration, remodeling, or rehabilitation shall comply with the following:

2562 (1) Related to exits and egress windows:

2563 (a) Egress windows. The home has at least one egress window in each bedroom, or a  
2564 window that meets the minimum specifications of the United States Department of Housing  
2565 and Urban Development's (HUD) Manufactured Homes Construction and Safety Standards  
2566 (MHCSS) program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and  
2567 3280.404 for manufactured homes. These standards require the window to be at least 22  
2568 inches in the horizontal or vertical position in its least dimension and at least five square feet in  
2569 area. The bottom of the window opening shall be no more than 36 inches above the floor, and  
2570 the locks and latches and any window screen or storm window devices that need to be operated  
2571 to permit exiting shall not be located more than 54 inches above the finished floor.

2572 (b) Exits. The home is required to have two exterior exit doors, located remotely from  
2573 each other, as required in MHCSS 3280.105. This standard requires that a single-section home  
2574 have the doors no less than 12 feet, center-to-center, from each other, and a multisection home  
2575 have the doors no less than 20 feet, center-to-center, from each other, when measured in a  
2576 straight line, regardless of the length of the path of travel between the doors. One of the  
2577 required exit doors must be accessible from the doorway of each bedroom and no more than 35  
2578 feet away from any bedroom doorway. An exterior swing door shall have a 28-inch-wide by  
2579 74-inch-high clear opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high  
2580 clear opening. Each exterior door other than screen/storm doors shall have a key-operated lock  
2581 that has a passage latch; locks shall not require the use of a key or special tool for operation  
2582 from the inside of the home.

2583 (2) Related to flame spread:

2584 (a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or  
2585 water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants  
2586 and other trim materials two inches or less in width used to finish adjacent surfaces within  
2587 these spaces are exempt from this provision, provided all joints are supported by framing  
2588 members or materials with a flame spread rating of 25 or less. Combustible doors providing  
2589 interior or exterior access to furnace and water heater spaces shall be covered with materials of  
2590 limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be

2591 interrupted for louvers ventilating the space. However, the louvers shall not be of materials of  
2592 greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference  
2593 MHCSS 3280.203.

2594 (b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range  
2595 (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or  
2596 both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.  
2597 Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical  
2598 clearance above the cooking top of not less than 24 inches to the bottom of combustible  
2599 cabinets, as required by MHCSS 3280.204(e).

2600 (3) Related to smoke detectors:

2601 (a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway  
2602 or space communicating with each bedroom area between the living area and the first bedroom  
2603 door, unless a door separates the living area from that bedroom area, in which case the detector  
2604 shall be installed on the living-area side, as close to the door as practicable, as required by  
2605 MHCSS 3280.208. Homes with bedroom areas separated by any one or combination of  
2606 common-use areas such as a kitchen, dining room, living room, or family room (but not a  
2607 bathroom or utility room) shall be required to have one detector for each bedroom area. When  
2608 located in the hallways, the detector shall be between the return air intake and the living areas.

2609 (b) Switches and electrical connections. Smoke detectors shall have no switches in the  
2610 circuit to the detector between the over-current protection device protecting the branch circuit  
2611 and the detector. The detector shall be attached to an electrical outlet box and connected by a  
2612 permanent wiring method to a general electrical circuit. The detector shall not be placed on the  
2613 same branch circuit or any circuit protected by a ground-fault circuit interrupter.

2614 (4) Related to solid-fuel-burning stoves/fireplaces:

2615 (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built  
2616 fireplaces and fireplace stoves may be used in manufactured homes, provided that they are  
2617 listed for use in manufactured homes and installed according to their listing/manufacturers  
2618 instructions and the minimum requirements of MHCSS 3280.709(g).

2619 (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with  
2620 an integral door or shutters designed to close the fire chamber opening and shall include  
2621 complete means for venting through the roof, a combustion air inlet, a hearth extension, and

2622 means to securely attach the unit to the manufactured home structure.

2623 (i) Chimney. A listed, factory-built chimney designed to be attached directly to the  
2624 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device  
2625 and spark arrester shall be required. The chimney shall extend at least three feet above the part  
2626 of the roof through which it passes and at least two feet above the highest elevation of any part  
2627 of the manufactured home that is within 10 feet of the chimney.

2628 (ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be  
2629 installed in accordance with the terms of listings and the manufacturer's instruction. A  
2630 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to  
2631 prevent material from the hearth from dropping on the area beneath the manufactured home.

2632 (iii) Hearth. The hearth extension shall be of noncombustible material that is a  
2633 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches  
2634 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the  
2635 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.

2636 (5) Related to electrical wiring systems:

2637 (a) Testing. All electrical systems shall be tested for continuity, in accordance with  
2638 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to  
2639 demonstrate that all equipment is connected and in working order; and given a polarity check,  
2640 to determine that connections are proper.

2641 (b) 5.2 Protection. The electrical system shall be properly protected for the required  
2642 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches  
2643 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be  
2644 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the  
2645 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum  
2646 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.

2647 (6) Related to replacement furnaces and water heaters:

2648 (a) Listing. Replacement furnaces or water heaters shall be listed for use in a  
2649 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be  
2650 listed for use with the furnace or water heater.

2651 (b) Securement and accessibility. The furnace and water heater shall be secured in  
2652 place to avoid displacement. Every furnace and water heater shall be accessible for servicing.

2653 for replacement, or both as required by MHCSS 3280.709(a).

2654 (c) Installation. Furnaces and water heaters shall be installed to provide complete  
 2655 separation of the combustion system from the interior atmosphere of the manufactured home,  
 2656 as required by MHCSS.

2657 (i) Separation. The required separation may be achieved by the installation of a  
 2658 direct-vent system (sealed combustion system) furnace or water heater or the installation of  
 2659 furnace and water heater venting and combustion systems from the interior atmosphere of the  
 2660 home. There shall be no doors, grills, removable access panels, or other openings into the  
 2661 enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,  
 2662 etc., shall be sealed.

2663 (ii) Water heater. The floor area in the area of the water heater shall be free from  
 2664 damage from moisture to ensure that the floor will support the weight of the water heater.

2665 Section 38. Section **15A-4-103** is amended to read:

2666 **15A-4-103. Amendments to IBC applicable to City of Farmington.**

2667 [~~The following amendments are adopted as amendments to the IBC for the City of~~  
 2668 ~~Farmington:]~~

2669 [~~(1) A new IBC, Section (F) 903.2.13, is added as follows: "(F) 903.2.13 Group R,~~  
 2670 ~~Division 3 Occupancies. An automatic sprinkler system shall be installed throughout every~~  
 2671 ~~dwelling in accordance with NFPA 13D, when any of the following conditions are present:]~~

2672 [~~1. The structure is over two stories high, as defined by the building code;]~~

2673 [~~2. The nearest point of structure is more than 150 feet from the public way;]~~

2674 [~~3. The total floor area of all stories is over 5,000 square feet (excluding from the calculation~~  
 2675 ~~the area of the basement and/or garage); or]~~

2676 [~~4. The structure is located on a street constructed after March 1, 2000, that has a gradient over~~  
 2677 ~~12% and, during fire department response, access to the structure will be gained by using such~~  
 2678 ~~street. (If the access is intended to be from a direction where the steep gradient is not used, as~~  
 2679 ~~determined by the Chief, this criteria shall not apply).]~~

2680 [~~Such sprinkler system shall be installed in basements, but need not be installed in garages,~~  
 2681 ~~under eaves or in enclosed attic spaces, unless required by the Chief."]~~

2682 [~~(2) A new IBC, Section 907.9, is added as follows: "907.9 Alarm Circuit Supervision:~~  
 2683 ~~Alarm circuits in alarm systems provided for commercial uses (defined as other than one- and~~

2684 ~~two-family dwellings and townhouses) shall have Class "A" type of supervision. Specifically,~~  
2685 ~~Type "B" or End-of-line resistor and horn supervised systems are not allowed."]~~

2686 ~~[(3) In NFPA Section 13-07, new sections are added as follows: "6.8.6 FDC Security~~  
2687 ~~Locks Required. All Fire Department connections installed for fire sprinkler and standpipe~~  
2688 ~~systems shall have approved security locks.]]~~

2689 ~~[6.10 Fire Pump Disconnect Signs. When installing a fire pump, red plastic laminate signs~~  
2690 ~~shall be installed in the electrical service panel, if the pump is wired separately from the main~~  
2691 ~~disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES~~  
2692 ~~NOT Shut Off Fire Pump".]]~~

2693 ~~[22.1.6 Plan Preparation Identification. All plans for fire sprinkler systems, except for~~  
2694 ~~manufacturer's cut sheets of equipment shall include the full name of the person who prepared~~  
2695 ~~the drawings. When the drawings are prepared by a registered professional engineer, the~~  
2696 ~~engineer's signature shall also be included.]]~~

2697 ~~[22.2.2.3 Verification of Water Supply:]]~~

2698 ~~[22.2.2.3.1 Fire Flow Tests. Fire flow tests for verification of water supply shall be conducted~~  
2699 ~~and witnessed for all applications other than residential unless directed otherwise by the Chief.~~  
2700 ~~For residential water supply, verification shall be determined by administrative procedure.]]~~

2701 ~~[22.2.2.3.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include~~  
2702 ~~an accurate and verifiable water supply.]]~~

2703 ~~[24.2.3.7 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall~~  
2704 ~~include, but are not limited to:]]~~

2705 ~~[Commercial:]]~~

2706 ~~[FLUSH-Witness Underground Supply Flush;]]~~

2707 ~~[ROUGH Inspection-Installation of Riser, System Piping, Head Locations and all Components,~~  
2708 ~~Hydrostatic Pressure Test;]]~~

2709 ~~[FINAL Inspection-Head Installation and Escutcheons, Inspectors Test Location and Flow,~~  
2710 ~~Main Drain Flow, FDC Location and Escutcheon, Alarm Function, Spare Parts, Labeling of~~  
2711 ~~Components and Signage, System Completeness, Water Supply Pressure Verification,~~  
2712 ~~Evaluation of Any Unusual Parameter.]]~~

2713 Except as otherwise provided in this title, there are no amendments to the IBC that apply only  
2714 to the city of Farmington.

2715 Section 39. Section **15A-4-107** is amended to read:

2716 **15A-4-107. Amendments to IBC applicable to Sandy City.**

2717 The following amendments are adopted as amendments to the IBC for Sandy City:

2718 (1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic  
2719 sprinkler system shall be installed in accordance with NFPA 13 throughout buildings  
2720 containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table  
2721 B105.1 of the [2009] 2015 International Fire Code. Exempt locations as indicated in Section  
2722 903.3.1.1.1 are allowed.

2723 Exception: Automatic fire sprinklers are not required in buildings used solely for worship,  
2724 Group R Division 3, Group U occupancies and buildings complying with the International  
2725 Residential Code unless otherwise required by the International Fire Code.

2726 (2) A new IBC, Appendix L, is added and adopted as follows: "Appendix L  
2727 BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS  
2728 WILDLAND-URBAN INTERFACE AREAS

2729 AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban  
2730 Interface Areas by Sandy City shall be constructed using ignition resistant construction as  
2731 determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban  
2732 Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to  
2733 determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International  
2734 Wildland-Urban Interface Code, as modified herein, shall be used to determine the  
2735 requirements for Ignition Resistant Construction.

2736 (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new  
2737 Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7  
2738 shall only be required on the exposure side of the structure, as determined by the Fire Marshal,  
2739 where defensible space is less than 50 feet as defined in Section 603 of the 2006 International  
2740 Wildland-Urban Interface Code.

2741 (ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION  
2742 Subsections 505.5 and 505.7 are deleted."

2743 Section 40. Section **15A-4-203** is amended to read:

2744 **15A-4-203. Amendments to IRC applicable to City of Farmington.**

2745 [~~The following amendments are adopted as amendments to the IRC for the City of~~

2746 Farmington:]

2747 [~~(1) In IRC, R324 Automatic Sprinkler Systems, new IRC, Sections R324.1 and~~  
 2748 ~~R324.2 are added as follows: "R324.1 When required. An automatic sprinkler system shall be~~  
 2749 ~~installed throughout every dwelling in accordance with NFPA 13D, when any of the following~~  
 2750 ~~conditions are present:]~~

2751 [~~1. the structure is over two stories high, as defined by the building code;]~~

2752 [~~2. the nearest point of structure is more than 150 feet from the public way;]~~

2753 [~~3. the total floor area of all stories is over 5,000 square feet (excluding from the calculation~~  
 2754 ~~the area of the basement and/or garage); or]~~

2755 [~~4. the structure is located on a street constructed after March 1, 2000 that has a gradient over~~  
 2756 ~~12% and, during fire department response, access to the structure will be gained by using such~~  
 2757 ~~street. (If the access is intended to be from a direction where the steep gradient is not used, as~~  
 2758 ~~determined by the Chief, this criteria shall not apply).]~~

2759 [~~R324.2 Installation requirements and standards. Such sprinkler system shall be installed in~~  
 2760 ~~basements, but need not be installed in garages, under eaves or in enclosed attic spaces, unless~~  
 2761 ~~required by the Chief. Such system shall be installed in accordance with NFPA 13D."]~~

2762 [(2) In IRC, Chapter 44, the following NFPA referenced standards are added as  
 2763 follows:]

2764 [

	_____	"TABLE
	ADD	
	13D-07	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes, as amended by these rules
	13R-07	Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height"

2769 ] [(3) In NFPA, Section 13D-07, new sections are added as follows: "1.15 Reference to  
 2770 NFPA 13D. All references to NFPA 13D in the codes, ordinances, rules, or regulations  
 2771 governing NFPA 13D systems shall be read to refer to "modified NFPA 13D" to reference the  
 2772 NFPA 13D as amended by additional regulations adopted by Farmington City.]

2773 [~~4.9 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall~~  
2774 ~~include, but are not limited to:~~]  
2775 [~~Residential:~~]  
2776 [~~ROUGH Inspection-Verify Water Supply Piping Size and Materials, Installation of Riser,~~  
2777 ~~System Piping, Head Locations and all Components, Hydrostatic Pressure Test.~~]  
2778 [~~FINAL Inspection-Inspectors Test Flow, System Completeness, Spare Parts, Labeling of~~  
2779 ~~Components and Signage, Alarm Function, Water Supply Pressure Verification.~~]  
2780 [~~5.2.2.3 Exposed Piping of Metal. Exposed Sprinkler Piping material in rooms of dwellings~~  
2781 ~~shall be of Metal.~~]  
2782 [~~EXCEPTIONS:~~]  
2783 [~~a. CPVC Piping is allowed in unfinished mechanical and storage rooms only when~~  
2784 ~~specifically listed for the application as installed.~~]  
2785 [~~b. CPVC Piping is allowed in finished, occupied rooms used for sports courts or similar uses~~  
2786 ~~only when the ceiling/floor framing above is constructed entirely of non-combustible materials,~~  
2787 ~~such as a concrete garage floor on metal decking.~~]  
2788 [~~5.2.2.4 Water Supply Piping Material. Water Supply Piping from where the water line enters~~  
2789 ~~the dwelling adjacent to and inside the foundation to the fire sprinkler contractor~~  
2790 ~~point-of-connection shall be metal, suitable for potable plumbing systems. See Section 7.1.4~~  
2791 ~~for valve prohibition in such piping. Piping down stream from the point-of-connection used in~~  
2792 ~~the fire sprinkler system, including the riser, shall conform to NFPA 13D standards.~~]  
2793 [~~5.4 Fire Pump Disconnect Signs. When installing a Fire Pump, Red Plastic Laminate Signs~~  
2794 ~~shall be installed in the electrical service panel, if the pump is wired separately from the main~~  
2795 ~~disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES~~  
2796 ~~NOT Shut Off Fire Pump".~~]  
2797 [~~7.1.4 Valve Prohibition. NFPA 13D, Section 7.1 is hereby modified such that NO VALVE is~~  
2798 ~~permitted from the City Water Meter to the Fire Sprinkler Riser Control.~~]  
2799 [~~7.6.1 Mandatory Exterior Alarm. Every dwelling that has a fire sprinkler system shall have an~~  
2800 ~~exterior alarm, installed in an approved location. The alarm shall be of the combination~~  
2801 ~~horn/strobe or electric bell/strobe type, approved for outdoor use.~~]  
2802 [~~8.1.05 Plan Preparation Identification. All plans for fire sprinkler systems, except for~~  
2803 ~~manufacturer's cut sheets of equipment, shall include the full name of the person who prepared~~

2804 the drawings. ~~When the drawings are prepared by a registered professional engineer, the~~  
2805 ~~engineer's signature shall also be included.]~~

2806 [~~8.7 Verification of Water Supply:]~~

2807 [~~8.7.1 Fire Flow Tests: Fire Flow Tests for verification of Water Supply shall be conducted and~~  
2808 ~~witnesses for all applications other than residential, unless directed otherwise by the Chief. For~~  
2809 ~~residential Water Supply, verification shall be determined by administrative procedure.]~~

2810 [~~8.7.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include an~~  
2811 ~~accurate and verifiable Water Supply:]~~

2812 Except as otherwise provided in this title, there are no amendments to the IRC that apply only  
2813 to the city of Farmington.

2814 Section 41. Section **15A-6-101** is enacted to read:

2815 **CHAPTER 6. ADDITIONAL CONSTRUCTION REQUIREMENTS**

2816 **Part 1. Nitrogen Oxide Emission Limits for Natural Gas-Fired Water Heaters**

2817 **15A-6-101. Title.**

2818 This chapter is known as "Additional Construction Requirements."

2819 This part is known as "Nitrogen Oxide Emission Limits for Natural Gas-Fired Water  
2820 Heaters."

2821 Section 42. Section **15A-6-102** is enacted to read:

2822 **15A-6-102. Nitrogen Oxide emission limits for natural gas-fired water heaters.**

2823 (1) As used in this section:

2824 (a) "BTU" means British Thermal Unit.

2825 (b) (i) "Heat input" means the heat of combustion released by fuel burned in a water  
2826 heater based on the heating value of the fuel.

2827 (ii) "Heat input" does not include the enthalpy of a water heater's incoming combustion  
2828 air.

2829 (c) "Heat output" means the enthalpy of a water heater's working fluid output.

2830 (d) "Natural gas-fired water heater" means a device that heats water:

2831 (i) using natural gas combustion;

2832 (ii) for use external to the device at a pressure that is less than or equal to 160 pounds  
2833 per square inch gage; and

2834 (iii) to a thermostatically controlled temperature less than or equal to:

- 2835 (A) 210 degrees Fahrenheit; or  
2836 (B) 99 degrees Celsius.  
2837 (e) "ppm" means parts of Nitrogen Oxide per million parts of water heater air output.  
2838 (f) "Recreational vehicle" means the same as that term is defined in Section [13-14-102](#).  
2839 (2) Subject to Subsection (6), a person may not sell or install a natural gas-fired water  
2840 heater with an emission rate greater than the following limits:  
2841 (a) for a water heater that has a heat input of less than or equal to 75,000 BTU per hour  
2842 that is not installed in a mobile home, a limit of:  
2843 (i) 10 nanograms per Joule of heat output; or  
2844 (ii) 15 ppm, corrected to 3% oxygen;  
2845 (b) for a water heater that has a heat input of greater than 75,000 BTU per hour and less  
2846 than 2,000,000 BTU per hour that is not installed in a mobile home, a limit of:  
2847 (i) 10 nanograms per Joule of heat output; or  
2848 (ii) 20 ppm, corrected to 3% oxygen;  
2849 (c) for a water heater installed in a mobile home, a limit of:  
2850 (i) 40 nanograms per Joule of heat output; or  
2851 (ii) 20 ppm, corrected to 3% oxygen;  
2852 (d) for a pool or spa water heater with a heat input that is less than or equal to 400,000  
2853 BTU per hour, a limit of:  
2854 (i) 40 nanograms per Joule of heat output; or  
2855 (ii) 55 ppm, corrected to 3% oxygen; and  
2856 (e) for a pool or spa water heater with a heat input of greater than 400,000 BTU per  
2857 hour and less than 2,000,000 BTU per hour, a limit of:  
2858 (i) 14 nanograms per Joule of heat output; or  
2859 (ii) 55 ppm, corrected to 3% oxygen.  
2860 (3) A water heater manufacturer shall use California South Coast Air Quality  
2861 Management District Method 100.1 to calculate the emissions rate of a water heater subject to  
2862 this section.  
2863 (4) A water heater manufacturer shall display on a water heater subject to this section,  
2864 as a permanent label, the model number and the Nitrogen Oxide emission rate of the water  
2865 heater.

- 2866           (5) The requirements of this section do not apply to:  
2867           (a) a water heater using a fuel other than natural gas;  
2868           (b) a water heater used in a recreational vehicle;  
2869           (c) a water heater manufactured in the state for sale and shipment outside of the state;

2870 or

- 2871           (d) a water heater manufactured before July 1, 2018.  
2872           (6) Subsection (2) applies to the sale or installation of a water heater on or after July 1,  
2873           2018.

2874           Section 43. Section **58-11a-502** is amended to read:

2875           **58-11a-502. Unlawful conduct.**

2876           Unlawful conduct includes:

2877           (1) practicing or engaging in, or attempting to practice or engage in activity for which a  
2878 license is required under this chapter unless:

2879           (a) the person holds the appropriate license under this chapter; or

2880           (b) an exemption in Section 58-1-307 or 58-11a-304 applies;

2881           (2) knowingly employing any other person to engage in or practice or attempt to  
2882 engage in or practice any occupation or profession licensed under this chapter if the employee  
2883 is not licensed to do so under this chapter or exempt from licensure;

2884           (3) touching, or applying an instrument or device to the following areas of a client's  
2885 body:

2886           (a) the genitals or the anus, except in cases where the patron states to a licensee that the  
2887 patron requests a hair removal procedure and signs a written consent form, which must also  
2888 include the witnessed signature of a legal guardian if the patron is a minor, authorizing the  
2889 licensee to perform a hair removal procedure; or

2890           (b) the breast of a female patron, except in cases in which the female patron states to a  
2891 licensee that the patron requests breast skin procedures and signs a written consent form, which  
2892 must also include the witnessed signature of a parent or legal guardian if the patron is a minor,  
2893 authorizing the licensee to perform breast skin procedures;

2894           (4) using or possessing a solution composed of at least 10% methyl methacrylate on a  
2895 client;

2896           (5) performing an ablative procedure as defined in Section 58-67-102;

2897 (6) when acting as an instructor regarding a service requiring licensure under this  
2898 chapter, for a class or education program where attendees are not licensed under this chapter,  
2899 failing to inform each attendee in writing that:

2900 (a) taking the class or program without completing the requirements for licensure under  
2901 this chapter is insufficient to certify or qualify the attendee to perform a service for  
2902 compensation that requires licensure under this chapter; and

2903 (b) the attendee is required to obtain licensure under this chapter before performing the  
2904 service for compensation; or

2905 (7) failing as a salon or school where nail technology is practiced or taught to maintain  
2906 a source capture system required under [~~Section 15A-3-401~~] Title 15A, State Construction and  
2907 Fire Codes Act, including failing to maintain and clean a source capture system's air filter  
2908 according to the manufacturer's instructions.

2909 Section 44. **Repealer.**

2910 This bill repeals:

2911 Section **15A-3-106.5, Amendments to Chapter 15 of IBC.**