

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: J. Stuart Adams

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;
- 48a ~~Ĥ~~→ ▶ **enacts a provision related to building permits for projects using polyurethane**
 48b **insulated concrete form block;** ←~~Ĥ~~
- 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 ~~Ĥ~~→ [None] **This bill provides a special effective date.** ←~~Ĥ~~
- 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

101a H→ 15A-6-201, Utah Code Annotated 1953 ←H

101b S→ 15A-6-202, Utah Code Annotated 1953 ←S

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 2021 and, thereafter, for every
146 second update of the nationally recognized construction code; and

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

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 ~~§~~ → [§ → in accordance with rules made by the Division of Occupational and

154a **Professional Licensing in accordance with Title 63G, Chapter 3, Utah Administrative**

154b **Rulemaking Act** ← ~~§~~] ← ~~§~~ .

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), and (10) or as expressly provided in

219 state law, a state executive branch entity or political subdivision of the state may not, after

220 December 1, 2016, adopt or enforce a rule, ordinance, or requirement that applies to a subject

221 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 ~~not~~ :

222a (a) ~~not~~ enforce a

223 federal law or regulation ~~that~~ [] :

223a (b) **adopt or enforce a rule, ordinance, or requirement if the rule, ordinance, or**

223b **requirement applies only to a facility or construction owned or used by a state entity or a**

223c **political subdivision of the state; or**

223d (c) **enforce a rule, ordinance, or requirement:**

223e (i) **that the state executive branch entity or political subdivision adopted or made**

223f **effective before July 1, 2015; and**

223g (ii) **for which the state executive branch entity or political subdivision can**

223h **demonstrate, with substantial evidence, that the rule, ordinance, or requirement is necessary to**

223i **protect an individual from a condition likely to cause imminent injury or death.** ~~not~~

224 (10) The Department of Health or the Department of Environmental Quality may

225 enforce a rule or requirement adopted before January 1, 2015.

226 [~~(7)~~] (11) (a) Except as provided in Subsection [~~(7)~~] (11)(b), a structure used solely in

227 conjunction with agriculture use, and not for human occupancy, is exempt from the permit

228 requirements of the State Construction Code.

229 (b) (i) Unless exempted by a provision other than Subsection [~~(7)~~] (11)(a), a plumbing,

230 electrical, and mechanical permit may be required when that work is included in a structure

231 described in Subsection [~~(7)~~] (11)(a).

232 (ii) Unless located in whole or in part in an agricultural protection area created under

233 Title 17, Chapter 41, Agriculture and Industrial Protection Areas, a structure described in

234 Subsection [~~(7)~~] (11)(a) is not exempt from a permit requirement if the structure is located on

235 land that is:

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

237 (B) within a subdivision for which the county has approved a subdivision plat under

238 Title 17, Chapter 27a, Part 6, Subdivisions, and less than two contiguous acres.

239 [~~8~~] (12) A structure that is no more than 1,000 square feet and is used solely for the

240 type of sales described in Subsection 59-12-104(20) is exempt from the permit requirements

241 described in:

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

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

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

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

247 **15A-1-403. Adoption of State Fire Code.**

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

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

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

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

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

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

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

259 (i) to the entire state; or

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

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

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

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

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

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

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

273 (b) For the provisions of a nationally recognized fire code that apply only to detached

274 one- and two-family dwellings and townhouses not more than three stories above grade plane
275 in height with separate means of egress and their accessory structures, the board shall:

276 (i) prepare a report described in Subsection (4) in 2021 and, thereafter, for every
277 second update of the nationally recognized fire code; and

278 (ii) not prepare a report described in Subsection (4) in 2018.

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

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

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

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

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

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

292 ~~[(3)]~~ (5) (a) (i) The board shall, by no later than November 30 of each year in which the
293 board is not required to submit a report described in Subsection (4), recommend in a report to
294 the Business and Labor Interim Committee whether the Legislature should~~[(i)]~~ amend or
295 repeal one or more provisions of the State Fire Code~~[-or]~~.

296 ~~[(ii) in a year of a regularly scheduled update of a nationally recognized fire code,~~
297 ~~adopt with any modifications the nationally recognized fire code.]~~

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

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

301 (i) on its own initiative; or

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

304 (c) Within 45 days after ~~[receipt of]~~ the day on which the board receives a request

305 under Subsection ~~[(3)]~~ (5)(b), the board shall direct the division to convene an informal hearing
306 concerning the request.

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

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

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

316 (ii) The division shall provide the notice:

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

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

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

324 ~~[(5)]~~ (6) (a) Notwithstanding ~~[Subsection (3)]~~ the provisions of this section, the board
325 may, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, amend a
326 State Fire Code if the board determines that waiting for legislative action in the next general
327 legislative session would:

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

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

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

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

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

335 (c) If not formally adopted by the Legislature at ~~[its]~~ the next annual general session, an

336 amendment to a State Fire Code adopted under this Subsection ~~[(5)]~~ (6) is repealed on the July
 337 1 immediately following the next annual general session that follows the adoption of the
 338 amendment.

339 ~~[(6)]~~ (7) (a) ~~[A]~~ Except as provided in Subsection (7)(b), a legislative body of a
 340 political subdivision may enact an ordinance in the political subdivision's fire code that is more
 341 restrictive ~~[in its fire code requirements]~~ than the State Fire Code:

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

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

344 (b) Except as provided in Subsections (7)(c), (10), ~~H~~→ and ←~~H~~ (11), ~~H~~→ ~~[and (12)],~~ ←~~H~~
 344a or as expressly
 345 provided in state law, a political subdivision may not, after December 1, 2016, enact or enforce
 346 a rule or ordinance that applies to a structure built in accordance with the International
 347 Residential Code as adopted in the State Construction Code, that is more restrictive than the
 348 State Fire Code.

349 (c) A political subdivision may adopt:

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

351 (ii) a fire sprinkler ordinance in accordance with Section [15A-5-203](#).

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

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

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

359 (A) a copy of the ordinance enacted under this Subsection ~~[(6)]~~ (7); and

360 (B) a description of the public safety need that is the basis of enacting the ordinance.

361 ~~[(c)]~~ (e) The board shall submit to the Business and Labor Interim Committee each
 362 year with the recommendations submitted in accordance with Subsection ~~[(3)]~~ (4):

363 (i) a list of the ordinances enacted under this Subsection ~~[(6)]~~ (7) during the fiscal year
 364 immediately ~~[proceeding]~~ preceding the report; and

365 (ii) recommendations, if any, for legislative action related to an ordinance enacted
 366 under this Subsection ~~[(6)]~~ (7).

367 ~~[(d)]~~ (f) (i) The state fire marshal shall keep an indexed copy of an ordinance enacted
368 under this Subsection ~~[(6)]~~ (7).

369 (ii) The state fire marshal shall make a copy of an ordinance enacted under this
370 Subsection ~~[(6)]~~ (7) available on request.

371 ~~[(e)]~~ (g) The board may make rules in accordance with Title 63G, Chapter 3, Utah
372 Administrative Rulemaking Act, to establish procedures for a legislative body of a political
373 subdivision to follow to provide the notice and report required under this Subsection ~~[(6)]~~ (7).

374 (8) Except as provided in Subsections (9), (10), and (11) or as expressly provided in
375 state law, a state executive branch entity may not, after December 1, 2016, adopt or enforce a
376 rule or requirement that:

377 (a) is more restrictive than the State Fire Code; and

378 (b) applies to detached one- and two-family dwellings and townhouses not more than
379 three stories above grade plane in height with a separate means of egress and their accessory
380 structures.

381 (9) A state government entity may adopt a rule or requirement regarding a residential
382 occupancy that is regulated by:

383 (a) the State Fire Prevention Board;

384 (b) the Department of Health; or

385 (c) the Department of Human Services.

386 (10) A state executive branch entity or political subdivision of the state may ~~H→~~ :

386a (a) ~~H~~ enforce a

387 federal law or regulation ~~H→~~ [e] ;

387a (b) **adopt or enforce a rule, ordinance, or requirement if the rule, ordinance, or**

387b **requirement applies only to a facility or construction owned or used by a state entity or a**

387c **political subdivision of the state; or**

387d (c) **enforce a rule, ordinance, or requirement:**

387e (i) **that the state executive branch entity or political subdivision adopted or made**

387f **effective before July 1, 2015; and**

387g (ii) **for which the state executive branch entity or political subdivision can**

387h **demonstrate, with substantial evidence, that the rule, ordinance, or requirement is necessary to**

387i **protect an individual from a condition likely to cause imminent injury or death.** ~~H~~

388 (11) The Department of Health or the Department of Environmental Quality may

389 enforce a rule or requirement adopted before January 1, 2015.

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

391 **15A-2-102. Definitions.**

392 As used in this chapter and Chapter 3, Statewide Amendments Incorporated as Part of
393 State Construction Code, and Chapter 4, Local Amendments Incorporated as Part of State
394 Construction Code:

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

398 (2) "IBC" means the edition of the International Building Code adopted under Section
399 [15A-2-103](#).

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

402 [~~(3)~~] (4) "IECC" means the edition of the International Energy Conservation Code
403 adopted under Section [15A-2-103](#).

404 [~~(4)~~] (5) "IFGC" means the edition of the International Fuel Gas Code adopted under
405 Section [15A-2-103](#).

406 [~~(5)~~] (6) "IMC" means the edition of the International Mechanical Code adopted under
407 Section [15A-2-103](#).

408 [~~(6)~~] (7) "IPC" means the edition of the International Plumbing Code adopted under
409 Section [15A-2-103](#).

410 [~~(7)~~] (8) "IRC" means the edition of the International Residential Code adopted under
411 Section [15A-2-103](#).

412 [~~(8)~~] (9) "NEC" means the edition of the National Electrical Code adopted under
413 Section [15A-2-103](#).

414 [~~(9)~~] (10) "UWUI" means the edition of the Utah Wildland Urban Interface Code
415 adopted under Section [15A-2-103](#).

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

417 **15A-2-103. Specific editions adopted of construction code of a nationally**
418 **recognized code authority.**

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

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

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

- 429 (c) the [2012] 2015 edition of the International Plumbing Code, issued by the
430 International Code Council;
- 431 (d) the [2012] 2015 edition of the International Mechanical Code, issued by the
432 International Code Council;
- 433 (e) the [2012] 2015 edition of the International Fuel Gas Code, issued by the
434 International Code Council;
- 435 (f) the [2011] 2014 edition of the National Electrical Code, issued by the National Fire
436 Protection Association;
- 437 (g) the [2012] 2015 edition of the International Energy Conservation Code, issued by
438 the International Code Council;
- 439 (h) the 2015 edition of the International Existing Building Code, issued by the
440 International Code Council;
- 441 [~~h~~] (i) subject to Subsection [15A-2-104\(2\)](#), the HUD Code;
- 442 [~~i~~] (j) subject to Subsection [15A-2-104\(1\)](#), Appendix E of the [2012] 2015 edition of
443 the International Residential Code, issued by the International Code Council; and
- 444 [~~j~~] (k) subject to Subsection [15A-2-104\(1\)](#), the 2005 edition of the NFPA 225 Model
445 Manufactured Home Installation Standard, issued by the National Fire Protection Association.
- 446 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire
447 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
448 issued by the International Code Council, with the alternatives or amendments approved by the
449 Utah Division of Forestry, as a construction code that may be adopted by a local compliance
450 agency by local ordinance or other similar action as a local amendment to the codes listed in
451 this section.

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

453 **15A-2-104. Installation standards for manufactured housing.**

- 454 (1) The following are the installation standards for manufactured housing for new
455 installations or for existing manufactured or mobile homes that are subject to relocation,
456 building alteration, remodeling, or rehabilitation in the state:
- 457 (a) The manufacturer's installation instruction for the model being installed is the
458 primary standard.
- 459 (b) If the manufacturer's installation instruction for the model being installed is not

460 available or is incomplete, the following standards apply:

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

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

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

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

474 (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed
475 in the state that does not meet the local snow load requirements as specified in Chapter 3, Part
476 2, Statewide Amendments to International Residential Code, except that the manufactured
477 home shall have a protective structure built over the home that meets the IRC and the snow
478 load requirements under Chapter 3, Part 2, Statewide Amendments to International Residential
479 Code.

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

481 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

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

483 (2) [~~(a)~~] In IBC, Section 110, a new section is added as follows: "[~~110.3.5~~] 110.3.5.1,
484 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant
485 exterior wall envelope as required by Section 1403.2, and flashing as required by Section
486 1405.4 to prevent water from entering the weather-resistive barrier."

487 [~~(b) The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6,~~
488 ~~Lath or gypsum board inspection; 110.3.7, Fire- and smoke-resistant penetrations; 110.3.8,~~
489 ~~Energy efficiency inspections; 110.3.9, Other inspections; 110.3.10, Special inspections; and~~
490 ~~110.3.11, Final inspection.]~~

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

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

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

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

504 (7) In IBC, Section 202, the following definition is added for Residential
505 Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT
506 ASSISTED LIVING FACILITY. See Section 308.1.2."

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

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

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

514 [~~(11)~~] (10) In IBC, Section 305.2, the words "child care centers," are inserted after the
515 word "supervision," and the following sentence is added at the end of the paragraph: "See
516 Section 425 for special requirements for Day Care."

517 [~~(12)~~] (11) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced
518 with the word "four" in both places.

519 [~~(13)~~] (12) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child Day Care --
520 Residential Certificate or a Family License. Areas used for child day care purposes with a
521 Residential Certificate R430-50 or a Family License, as defined in Utah Administrative Code,

522 R430-90, Licensed Family Child Care, may be located in a Group R-2 or R-3 occupancy as
523 provided in Section 310.5 or shall comply with the International Residential Code in
524 accordance with Section R101.2."

525 ~~[(14)]~~ (13) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child Care
526 Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code,
527 R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of
528 School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as
529 accessory occupancies."

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

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

534 ~~[(15)]~~ (16) A new IBC Section 308.2.1 is added as follows: "308.2.1 Assisted living
535 facilities and related occupancies. The following words and terms shall, for the purposes of
536 this section and as used elsewhere in this code, have the meanings shown herein.

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

541 Occupancies. Limited capacity, type I assisted living facilities with two to five residents shall
542 be classified as R-3 occupancies. Small, type I assisted living facilities with six to sixteen
543 residents shall be classified as R-4 occupancies. Large, type I assisted living facilities with
544 over sixteen residents shall be classified as I-1 occupancies.

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

548 Semi-Independent. A person who is:

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

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

552 Occupancies. Limited capacity, type II assisted living facilities with two to five residents shall

553 be classified as R-4 occupancies. Small, type II assisted living facilities with six to sixteen
554 residents shall be classified as I-1 occupancies. Large, type II assisted living facilities with
555 over sixteen residents shall be classified as I-2 occupancies.

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

561 ~~[(16)]~~ (17) In IBC, Section 308.3, the words "(see Section 308.2.1)" are added after the
562 words "assisted living facilities[^u]."

563 ~~[(17)]~~ (18) In IBC, Section ~~[308.3.1]~~ 308.3.4, all of the words after the first
564 International Residential Code are deleted.

565 ~~[(18)]~~ (19) In IBC, Section 308.4, the following changes are made:

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

567 (b) The words "foster care facilities" are deleted and replaced with "child care
568 facilities."

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

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

573 ~~[(19)]~~ (20) In IBC, Section ~~[308.4.1]~~ 308.4.2, the word "five" is deleted and replaced
574 with the word "three" in both places.

575 ~~[(20)]~~ (21) In IBC, Section 308.6, the word "five" is deleted and replaced with the
576 word "four[^u]."

577 ~~[(21)]~~ (22) In IBC, Section 308.6.1, the following changes are made:

578 (a) The word "five" is deleted and replaced with the word "four[^u]."

579 (b) The words "2-1/2 years or less of age" are deleted and replaced with "under the age
580 of two[^u]."

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

583 ~~[(22)]~~ (23) In IBC, Sections 308.6.3 and 308.6.4, the word "five" is deleted and

584 replaced with the word "four" in both places and the following sentence is added at the end:
585 "See Section ~~[425]~~ 427 for special requirements for Day Care."

586 ~~[(23)]~~ (24) In IBC, Section 310.5, the words "and single family dwellings complying
587 with the IRC" are added after "Residential occupancies[~~"~~]."

588 ~~[(24)]~~ (25) In IBC, Section 310.5.1, the words "other than Child Care" are inserted
589 after the word "dwelling" in the first sentence and the following sentence is added at the end:
590 "See Section ~~[425]~~ 427 for special requirements for Child Day Care."

591 ~~[(25)]~~ (26) A new IBC Section ~~[310.5.2]~~ 310.5.3 is added as follows: "~~[310.5.2]~~
592 310.5.3 Child Care. Areas used for child care purposes may be located in a residential
593 dwelling unit under all of the following conditions and Section ~~[425]~~ 427:

- 594 1. Compliance with Utah Administrative Code, R710-8, Day Care Rules, as enacted under the
- 595 authority of the Utah Fire Prevention Board.
- 596 2. Use is approved by the Utah Department of Health, as enacted under the authority of the
- 597 Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following
- 598 categories:
- 599 a. Utah Administrative Code, R430-50, Residential Certificate Child Care.
- 600 b. Utah Administrative Code, R430-90, Licensed Family Child Care.
- 601 3. Compliance with all zoning regulations of the local regulator."

602 ~~[(26)]~~ (27) In IBC, Section 310.6, the words "(see Section 308.2.1)" are added after
603 "assisted living facilities[~~"~~]."

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

605 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

606 (1) IBC Section 403.5.5 is deleted.

607 ~~[(2) IBC Section (F)406.5.8 is deleted and replaced with the following: "(F)406.5.8~~
608 ~~Standpipe system. An open parking garage shall be equipped with an approved Class I manual~~
609 ~~standpipe system when fire department access is not provided for firefighting operations to~~
610 ~~within 150 feet of all portions of the open parking garage as measured from the approved fire~~
611 ~~department vehicle access.]~~

612 ~~[Exception: Open parking garages equipped throughout with an automatic sprinkler system in~~
613 ~~accordance with Section 903.3.1.1 and a standpipe system is not required by Section 905.3.1.]~~

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

615 requirements. ~~Class I manual standpipe shall be designed and installed in accordance with~~
616 ~~Section 905 and NFPA 14. Class I manual standpipe shall be accessible throughout the~~
617 ~~parking garage such that all portions of the parking structure are protected within 150 feet of a~~
618 ~~hose connection."~~

619 [(4)] (2) In IBC, Section 422.2, a new paragraph is added as follows: "422.2
620 Separations: Ambulatory care facilities licensed by the Utah Department of Health shall be
621 separated from adjacent tenants with a fire ~~[barrier]~~ partition having a minimum one hour
622 fire-resistance rating. Any level below the level of exit discharge shall be separated from the
623 level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance
624 rating.

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

- 626 1. Such levels are under the control of the Ambulatory Care Facility.
627 2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour
628 fire-resistance rating."

629 [(5)] (3) A new IBC Section ~~[425]~~ 427, Day Care, is added as follows:

630 "~~[425.1]~~ 427.1 Detailed Requirements. In addition to the occupancy and construction
631 requirements in this code, the additional provisions of this section shall apply to all Day Care in
632 accordance with Utah Administrative Code R710-8 Day Care Rules.

633 ~~[425.2]~~ 427.2 Definitions.

634 ~~[425.2.1]~~ 427.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized
635 deputies, or the local fire enforcement authority code official.

636 ~~[425.2.2]~~ 427.2.2 Day Care Facility: Any building or structure occupied by clients of any age
637 who receive custodial care for less than 24 hours by individuals other than parents, guardians,
638 relatives by blood, marriage or adoption.

639 ~~[425.2.3]~~ 427.2.3 Day Care Center: Providing care for five or more clients in a place other than
640 the home of the person cared for. This would also include Child Care Centers, Out of School
641 Time or Hourly Child Care Centers licensed by the Department of Health.

642 ~~[425.2.4]~~ 427.2.4 Family Day Care: Providing care for clients listed in the following two
643 groups:

644 ~~[425.2.4.1]~~ 427.2.4.1 Type 1: Services provided for five to eight clients in a home. This would
645 also include a home that is certified by the Department of Health as Residential Certificate

646 Child Care or licensed as Family Child Care.
647 [~~425.2.4.2~~] 427.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with
648 sufficient staffing. This would also include a home that is licensed by the Department of
649 Health as Family Child Care.
650 [~~425.2.5~~] 427.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted
651 under the authority of the Utah Fire Prevention Board.
652 [~~425.3.~~] 427.3 Family Day Care.
653 [~~425.3.1~~] 427.3.1 Family Day Care units shall have on each floor occupied by clients, two
654 separate means of egress, arranged so that if one is blocked the other will be available.
655 [~~425.3.2~~] 427.3.2 Family Day Care units that are located in the basement or on the second story
656 shall be provided with two means of egress, one of which shall discharge directly to the
657 outside.
658 [~~425.3.2.1~~] 427.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with
659 five to eight clients in a home, located on the ground level or in a basement, may use an
660 emergency escape or rescue window as allowed in IFC, Chapter 10, Section [~~1029~~] 1030.
661 [~~425.3.3~~] 427.3.3 Family Day Care units shall not be located above the second story.
662 [~~425.3.4~~] 427.3.4 In Family Day Care units, clients under the age of two shall not be located
663 above or below the first story.
664 [~~425.3.4.1~~] 427.3.4.1 Clients under the age of two may be housed above or below the first story
665 where there is at least one exit that leads directly to the outside and complies with IFC, Section
666 [~~1009~~] 1011 or Section [~~1010~~] 1012 or Section [~~1026~~] 1027.
667 [~~425.3.5~~] 427.3.5 Family Day Care units located in split entry/split level type homes in which
668 stairs to the lower level and upper level are equal or nearly equal, may have clients housed on
669 both levels when approved by the AHJ.
670 [~~425.3.6~~] 427.3.6 Family Day Care units shall have a portable fire extinguisher on each level
671 occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be
672 serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.
673 [~~425.3.7~~] 427.3.7 Family Day Care units shall have single station smoke detectors in good
674 operating condition on each level occupied by clients. Battery operated smoke detectors shall
675 be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure
676 continued operation of the smoke detectors.

677 [425.3.8] 427.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,
678 shall have at least one window or door approved for emergency escape.

679 [425.3.9] 427.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall
680 include the complete evacuation from the building of all clients and staff. At least annually, in
681 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape
682 or rescue window, if one is used as a substitute for one of the required means of egress.

683 [425.4] 427.4 Day Care Centers.

684 [425.4.1] 427.4.1 Day Care Centers shall comply with either I-4 requirements or E
685 requirements of the IBC, whichever is applicable for the type of Day Care Center.

686 [425.4.2] 427.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter
687 4, Section 405.

688 [425.4.3] 427.4.3 Location at grade. Group E child day care centers shall be located at the
689 level of exit discharge.

690 [425.4.3.1] 427.4.3.1 Child day care spaces for children over the age of 24 months may be
691 located on the second floor of buildings equipped with automatic fire protection throughout
692 and an automatic fire alarm system.

693 [425.4.4] 427.4.4 Egress. All Group E child day care spaces with an occupant load of more
694 than 10 shall have a second means of egress. If the second means of egress is not an exit door
695 leading directly to the exterior, the room shall have an emergency escape and rescue window
696 complying with Section [1029] 1030.

697 [425.4.5] 427.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative
698 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of
699 School Time.

700 [425.5] 427.5 Requirements for all Day Care.

701 [425.5.1] 427.5.1 Heating equipment in spaces occupied by children shall be provided with
702 partitions, screens, or other means to protect children from hot surfaces and open flames.

703 [425.5.2] 427.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All
704 staff shall be trained on the fire escape plan and procedure."

705 [(6)] (4) In IBC, Section [504.2] 504.4, a new section is added as follows: ["504.2.1]
706 "504.4.1 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities
707 shall be allowed [~~to be two stories of~~] on each level of a two-story building of Type V-A

708 construction when all of the following apply:

- 709 1. All secured units are located at the level of exit discharge in compliance with Section
710 [~~1008.1.9.3~~] 1010.1.9.3 as amended;
- 711 2. The total combined area of both stories shall not exceed the total allowable area for a
712 one-story building; and
- 713 3. All other provisions that apply in Section 407 have been provided."

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

715 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

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

722 901.8.1 A minimum clear and unobstructed distance of 12-inches shall be provided from the
723 installed equipment to the elements of permanent construction.

724 901.8.2 A minimum clear and unobstructed distance of 12-inches shall be provided between
725 all other installed equipment and appliances.

726 901.8.3 A clear and unobstructed width of 36-inches shall be provided in front of all installed
727 equipment and appliances, to allow for inspection, service, repair or replacement without
728 removing such elements of permanent construction or disabling the function of a required
729 fire-resistance-rated assembly.

730 901.8.4 Automatic sprinkler system riser rooms shall be provided with a clear and
731 unobstructed passageway to the riser room of not less than 36-inches, and openings into the
732 room shall be clear and unobstructed, with doors swinging in the outward direction from the
733 room and the opening providing a clear width of not less than 34-inches and a clear height of
734 the door opening shall not be less than 80-inches.

735 901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the
736 fire pump room of not less than 72-inches, and openings into the room shall be clear,
737 unobstructed and large enough to allow for the removal of the largest piece of equipment, with
738 doors swinging in the outward direction from the room and the opening providing a clear width

739 of not less than 68-inches and a clear height of the door opening shall not be less than
740 80-inches."

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

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

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

749 (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
750 deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system
751 installed in accordance with Section 903.3 shall be provided throughout all buildings with a
752 Group R fire area.

753 Exceptions:

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

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

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

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

764 [3:] "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing
765 more than 16 residents, provided the building is equipped throughout with an approved fire
766 alarm system that is interconnected and receives its primary power from the building wiring
767 and a commercial power system."

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

769 [~~6~~] (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the

770 following: "2. A Group S-1 fire area is located more than three stories above the lowest level
771 of fire department vehicle access."

772 ~~[(7)] (10)~~ IBC, Section ~~[(F)904.11]~~ (F)904.12, is deleted and replaced with the
773 following: "~~[(F)904.11]~~ (F)904.12 Commercial cooking systems. The automatic
774 fire-extinguishing system for commercial cooking systems shall be of a type recognized for
775 protection of commercial cooking equipment and exhaust systems. Pre-engineered automatic
776 extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the
777 intended application. The system shall be installed in accordance with this code, its listing and
778 the manufacturer's installation instructions.

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

782 ~~[(8)] (11)~~ IBC, Sections ~~[(F)904.11.3, (F)904.11.3.1, (F)904.11.4, and (F)904.11.4.1,]~~
783 ~~(F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1,~~ are deleted.

784 (12) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as follows:
785 "Open Parking Garages. Open parking garages shall be equipped with an approved
786 Class 1 manual standpipe system when fire department access is not provided for firefighting
787 operations to within 150 feet of all portions of the open parking garage as measured from the
788 approved fire department vehicle access. Class 1 manual standpipe shall be accessible
789 throughout the parking garage such that all portions of the parking structure are protected
790 within 150 feet of a hose connection."

791 (13) In IBC, Section (F)905.8, the exception is deleted and replaced with the following:
792 "Exception: Where subject to freezing and approved by the fire code official."

793 ~~[(9)] (14)~~ In IBC, Section (F)907.2.3 Group E~~[(a) The]~~, the first sentence is deleted
794 and rewritten as follows: "A manual fire alarm system that ~~[initiates]~~ activates the occupant
795 notification system in accordance with Section (F)907.5 ~~[and]~~ shall be installed, in accordance
796 with Section (F)907.6 ~~[shall be installed]~~ and administrative rules made by the State Fire
797 Prevention Board in Group E occupancies."

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

800 ~~[(10) In IBC, Section (F)908.7, the first sentence is deleted and replaced as follows:~~

801 "~~Groups R-1, R-2, R-3, R-4, I-1, and I-4 occupancies~~"; the exceptions are deleted and the
802 following sentence is added after the first sentence: "A minimum of one carbon monoxide
803 alarm shall be installed on each habitable level."

804 [~~(11) In IBC, Section (F)908.7, the following new subsections are added:~~]
805 [~~"(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be~~
806 ~~installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be~~
807 ~~interconnected in such a manner that the activation of one alarm will activate all of the alarms.~~
808 ~~Physical interconnection of carbon monoxide alarms shall not be required where listed wireless~~
809 ~~alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be~~
810 ~~clearly audible in all bedrooms over background noise levels with all intervening doors closed.]~~
811 [~~(F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive~~
812 ~~their primary power from the building wiring where such wiring is served from a commercial~~
813 ~~source and shall be equipped with a battery backup. Carbon monoxide alarms with integral~~
814 ~~strobes that are not equipped with battery backup shall be connected to an emergency electrical~~
815 ~~system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall~~
816 ~~be permanent and without a disconnecting switch other than as required for overcurrent~~
817 ~~protection.]~~
818 [~~Exception: Carbon monoxide alarms are not required to be equipped with battery backup~~
819 ~~where they are connected to an emergency electrical system."]~~

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

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

823 "(F)915 Where required.
824 Group I-1, I-2, I-4 and R occupancies located in a building containing a fuel-burning appliance
825 or in a building that has an attached garage shall be equipped with single-station carbon
826 monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or
827 UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's
828 instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage,
829 ventilated in accordance with Section 404 of the International Mechanical Code, shall not be
830 considered an attached garage. A minimum of one carbon monoxide alarm shall be installed
831 on each habitable level.

832 (F)915.1 Interconnection.

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

839 (F)915.2 Power Source.

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

846 Exceptions.

- 847 1. Carbon monoxide alarms are not required to be equipped with a battery backup where they
848 are connected to an emergency electrical system.
- 849 2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the
850 alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing
851 the structure, unless there is an attic, crawl space, or basement available that could provide
852 access for hard wiring without the removal of interior finishes.

853 (F)915.3 Group E.

854 A carbon monoxide detection system shall be installed in new buildings that contain Group E
855 occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection
856 system shall be installed in existing buildings that contain Group E occupancies in accordance
857 with IFC, Chapter 11, Section 1103.9.

858 (F)915.3.1 Where required.

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

861 (F)915.3.2 Detection equipment.

862 Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and

863 the manufacturer's instructions and be listed as complying with, for single station detectors, UL
 864 2034 and, for system detectors, UL 2075.

865 (F)915.3.3 Locations.

866 Each carbon monoxide detection system shall be installed in the locations specified in NFPA
 867 720.

868 (F)915.3.4 Combination detectors.

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

872 (F)915.3.5 Power source.

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

877 (F)915.3.6 Maintenance.

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

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

882 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

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

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

890 [~~(3)~~] (2) In IBC, Section [~~1009.7.2]~~ 1011.5.2, exception [5] 3 is deleted and replaced
 891 with the following: "[5] 3. In Group R-3 occupancies, within dwelling units in Group R-2
 892 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy, or
 893 accessory to individual dwelling units in Group R-2 occupancies, the maximum riser height

894 shall be 8 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The
895 minimum winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum
896 winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but
897 not more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the
898 tread depth is less than 10 inches (254 mm)."

899 ~~[(4)]~~ (3) In IBC, Section ~~[1009.15]~~ 1011.11, a new exception ~~[6]~~ 5 is added as follows:
900 "[~~6~~] 5. In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in
901 Group U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2,
902 handrails shall be provided on at least one side of stairways consisting of four or more risers."

903 ~~[(5)]~~ (4) In IBC, Section ~~[1011.5]~~ 1013.5, the words ", including when the building
904 may not be fully occupied[-]" are added at the end of the sentence.

905 ~~[(6)]~~ (5) IBC, Section ~~[1024]~~ 1025, is deleted.

906 ~~[(7)]~~ (6) In IBC, Section ~~[1028.12]~~ 1029.14, exception 2 is deleted.

907 ~~[(8)]~~ (7) In IBC, Section 1109.8, the following words "shall be capable of operation
908 without a key and" are inserted in the second sentence between the words "lift" and "shall".

909 ~~[(9)]~~ (8) In IBC, Section 1208.4, subparagraph 1 is deleted and replaced with the
910 following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m²) of
911 floor area. An additional 100 square feet (9.3 m²) of floor area shall be provided for each
912 occupant of such unit in excess of two."

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

914 **15A-3-106. Amendments to Chapters 13 through 15 of IBC.**

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

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

917 **15A-3-107. Amendments to Chapter 16 of IBC.**

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

922 (2) In IBC, Section 1605.2, in the portion of the definition for the value of f_2 , the words
923 "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 +$
924 $.025(A-5)$ for other configurations where roof snow load exceeds 30 psf;

925 $f_2 = 0$ for roof snow loads of 30 psf (1.44kN/m²) or less.

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

927 (3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and
928 replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44
929 kNm²) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30
930 pounds per square foot (1.44 kNm²), the snow loads may be reduced in accordance with the
931 following in load combinations including both snow and seismic loads. W_s as calculated
932 below, shall be combined with seismic loads.

933 $W_s = (0.20 + 0.025(A-5))P_f$ is greater than or equal to 0.20 P_f .

934 Where:

935 W_s = Weight of snow to be included in seismic calculations

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

937 P_f = Design roof snow load, psf.

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

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

945 (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Section 7.4.5 of
946 Chapter 7 of ASCE 7 referenced in Section 1608.1 of the IBC is deleted and replaced with the
947 following: Section 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads exceed
948 75 psf, eaves shall be capable of sustaining a uniformly distributed load of $2p_f$ on all
949 overhanging portions. No other loads except dead loads shall be present on the roof when this
950 uniformly distributed load is applied. All building exits under down-slope eaves shall be
951 protected from sliding snow and ice."

952 (6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow
953 Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the jurisdictions
954 identified in that table. Otherwise, the ground snow load, P_g , to be used in the determination of
955 design snow loads for buildings and other structures shall be determined by using the following

956 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
 957 A_o .

958 WHERE:

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

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

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

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

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

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

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

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

972 "TABLE NO. 1608.1.2(a)

973 STATE OF UTAH - REGIONAL SNOW LOAD FACTORS

974	COUNTY	P_o	S	A_o
975	Beaver	43	63	6.2
976	Box Elder	43	63	5.2
977	Cache	50	63	4.5
978	Carbon	43	63	5.2
979	Daggett	43	63	6.5
980	Davis	43	63	4.5
981	Duchesne	43	63	6.5
982	Emery	43	63	6.0
983	Garfield	43	63	6.0
984	Grand	36	63	6.5
985	Iron	43	63	5.8

986	Juab	43	63	5.2
987	Kane	36	63	5.7
988	Millard	43	63	5.3
989	Morgan	57	63	4.5
990	Piute	43	63	6.2
991	Rich	57	63	4.1
992	Salt Lake	43	63	4.5
993	San Juan	43	63	6.5
994	Sanpete	43	63	5.2
995	Sevier	43	63	6.0
996	Summit	86	63	5.0
997	Tooele	43	63	4.5
998	Uintah	43	63	7.0
999	Utah	43	63	4.5
1000	Wasatch	86	63	5.0
1001	Washington	29	63	6.0
1002	Wayne	36	63	6.5
1003	Weber	43	63	4.5

1004 TABLE NO. 1608.1.2(B)

1005 REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS^{1,2}

1006 The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.

1007	County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) ⁶
1008	Carbon	Price ³	5550	43	30
		All other county locations ⁵	--	--	--
1009	Davis	Fruit Heights ³	4500 - 4850	57	40
1010	Emery	Green River ³	4070	36	25

1011	Garfield	Panguitch ³	6600	43	30
1012	Rich	Woodruff ³	6315	57	40
		Laketown ⁴	6000	57	40
		Garden City ⁵	--	--	--
		Randolph ⁴	6300	57	40
1013	San Juan	Monticello ³	6820	50	35
1014	Summit	Coalville ³	5600	86	60
		Kamas ⁴	6500	114	80
1015	Tooele	Tooele ³	5100	43	30
1016	Utah	Orem ³	4650	43	30
		Pleasant Grove ⁴	5000	43	30
		Provo ⁵	--	--	--
1017	Wasatch	Heber ⁵	--	--	--
1018	Washington	Leeds ³	3460	29	20
		Santa Clara ³	2850	21	15
		St. George ³	2750	21	15
		All other county locations ⁵	--	--	--
1019	Wayne	Loa ³	7080	43	30
1020	¹ The IBC requires a minimum live load - See [1607.11.2] Section 1607.12.				
1021	² 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.				
1022	³ Values adopted from Table VII of the Utah Snow Load Study.				
1023	⁴ Values based on site-specific study. Contact local Building Official for additional information.				
1024	⁵ Contact local Building Official.				
1025	⁶ Based on $C_e = 1.0$, $C_t = 1.0$ and $I_s = 1.0$ "				

1026 (8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The
1027 value for the thermal factor, C_t , used in calculation of P_f shall be determined from Table 7.3 in
1028 ASCE 7.

1029 Exception: Except for unheated structures, the value of C_i need not exceed 1.0 when ground
1030 snow load, P_g is calculated using Section 1608.1.2 as amended."

1031 (9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground
1032 Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs
1033 in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table
1034 1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure
1035 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2
1036 and for all sites within the CS areas shall be approved. Ground snow load determination for
1037 such sites shall be based on an extreme value statistical analysis of data available in the vicinity
1038 of the site using a value with a 2-percent annual probability of being exceeded (50-year mean
1039 recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as
1040 approved by the building official."

1041 (10) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 ASCE 12.7.2 and
1042 12.14.8.1 of Chapter 12 of ASCE 7 referenced in Section 1613.1, Definition of W , Item 4 is
1043 deleted and replaced with the following:

1044 4. Where the flat roof snow load, P_f , exceeds 30 psf, the snow load included in seismic design
1045 shall be calculated, in accordance with the following formula: $W_s = (0.20 + 0.025(A-5))P_f$ is
1046 greater than or equal to $0.20 P_f$.

1047 WHERE:

1048 W_s = Weight of snow to be included in seismic calculations

1049 A = Elevation above sea level at the location of the structure (ft./1,000)

1050 P_f = Design roof snow load, psf.

1051 For the purposes of this section, snow load shall be assumed uniform on the roof footprint
1052 without including the effects of drift or sliding. The Importance Factor, I , used in calculating P_f
1053 may be considered 1.0 for use in the formula for W_s ."

1054 (11) A new IBC, Section [~~1613.5~~] 1613.7, is added as follows: " [~~1613.5~~] 1613.7
1055 ASCE 7, Section 13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall
1056 have a sleeve or adapter through the ceiling tile to allow for free movement of at least 1 inch
1057 (25 mm) in all horizontal directions.

1058 Exceptions:

1059 1. Where rigid braces are used to limit lateral deflections.

1060 2. At fire sprinkler heads in frangible surfaces per NFPA 13."

1061 Section 12. Section 15A-3-108 is amended to read:

1062 **15A-3-108. Amendments to Chapters 17 through 19 of IBC.**

1063 (1) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical
 1064 concrete foundation design. Group R, Division 3 Occupancies three stories or less in height,
 1065 and Group U Occupancies, which are constructed in accordance with Section 2308, or with
 1066 other methods employing repetitive wood-frame construction or repetitive cold-formed steel
 1067 structural member construction, shall be permitted to have concrete foundations constructed in
 1068 accordance with Table 1807.1.6.4."

1069 (2) A new IBC, Table 1807.1.6.4 is added as follows:

1070 "TABLE 1807.1.6.4

1071 EMPIRICAL FOUNDATION WALLS (1,7,8)

1072 Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
1073 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"
1074 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"
1075 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"
1076 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"
1077 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"
1078 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"

1079	Over 9'(2,743 mm), Engineering required for each column
1080	Footnotes:
1081	(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.
1082	(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.
1083	(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).
1084	(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.
1085	(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.
1086	(6) Diaphragm shall conform to the requirements of Section 2308.
1087	(7) Footing shall be a minimum of nine inches thick by 20 inches wide.
1088	(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."

1089 [~~(3)~~ In IBC, Section 1904.2, a new exception 1 is added as follows and the current
1090 exception is modified to be number 2.]

1091 [Exceptions:]

1092 [~~"1. In ACI Table 4.3.1, for Exposure Class F1, change Maximum w/cm from 0.45 to
1093 0.5 and Minimum f_c from 4,500 psi to 3,000 psi."~~]

1094 [~~(4)~~] (3) A new IBC, Section [~~1905.1.11~~] 1905.1.9, is added as follows: [~~"1905.1.11~~]
1095 "1905.1.9 ACI 318, Table 4.2.1." Modify ACI 318, Table [~~4.2.1~~] 19.3.1.1 to read as follows:
1096 In the portion of the table designated as "Conditions", the following Exposure [~~categories~~]
1097 category and [~~classes are~~] class is deleted and replaced with the following:
1098 "F0: Concrete elements not exposed to freezing and thawing cycles to include footing and
1099 foundation elements that are completely buried in soil."

1100 [~~F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be~~
1101 ~~saturated or exposed to deicing chemicals.~~]
1102 [~~F2: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated,~~
1103 ~~but not exposed to deicing chemicals.~~]
1104 [~~F3: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated~~
1105 ~~and exposed to deicing chemicals."~~]

1106 Section 13. Section **15A-3-110** is amended to read:

1107 **15A-3-110. Amendments to Chapters 23 through 25 of IBC.**

1108 (1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors.
1109 The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used
1110 Load Duration Factors, Cd, of the National Design Specifications, shall not be utilized at
1111 elevations above 5,000 feet (1,524 M)."

1112 (2) In IBC, Section [~~2308.6~~] 2308.3.1, a new exception, 3, is added as follows:
1113 "[~~Exception:~~] 3. Where foundation plates or sills are bolted or anchored to the foundation with
1114 not less than 1/2 inch (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7
1115 inches (178 mm) into concrete or masonry and spaced not more than 32 inches (816 mm) apart,
1116 there shall be a minimum of two bolts or anchor straps per piece located not less than 4 inches
1117 (102 mm) from each end of each piece. A properly sized nut and washer shall be tightened on
1118 each bolt to the plate."

1119 (3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other
1120 materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with
1121 ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7, as amended in Section
1122 [~~+613.8~~] 1613.5, for installation in high seismic areas."

1123 Section 14. Section **15A-3-112** is amended to read:

1124 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

1125 (1) In IBC [P] Table 2902.1 the following changes are made:

1126 (a) The title for [P] Table 2902.1 is deleted and replaced with the following: "[P] Table
1127 2902.1, Minimum Number of Required Plumbing Facilities ^{a, h}".

1128 (b) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

1129 (c) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

1130 (d) A new footnote h is added as follows: "FOOTNOTE: h. When provided, in public

1131 toilet facilities there shall be an equal number of diaper changing facilities in male toilet rooms
1132 and female toilet rooms."

1133 (e) A new footnote i is added to the table as follows: "FOOTNOTE i: Non-residential
1134 child care facilities shall comply with additional sink requirements of Utah Administrative
1135 Code R430-100-4."

1136 (2) A new IBC, Section [P]2902.7, is added as follows:

1137 "[P]2902.7 Toilet Facilities for Workers.

1138 Toilet facilities shall be provided for construction workers and such facilities shall be
1139 maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type
1140 shall conform to ANSI Z4.3."

1141 [(2)] (3) In IBC, Section 3006.5, a new exception is added as follows: "Exception:
1142 Hydraulic elevators and roped hydraulic elevators with a rise of 50 feet or less."

1143 Section 15. Section **15A-3-113** is amended to read:

1144 **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

1145 [~~(1) A new section IBC, Section 3401.7, is added as follows: "3401.7 Parapet bracing,~~
1146 ~~wall anchors, and other appendages. Until June 30, 2014, a building constructed before 1975~~
1147 ~~shall have parapet bracing, wall anchors, and appendages such as cornices, spires, towers,~~
1148 ~~tanks, signs, statuary, etc. evaluated by a licensed engineer when the building is undergoing~~
1149 ~~structural alterations, which may include structural sheathing replacement of 10% or greater, or~~
1150 ~~other structural repairs. Reroofing or water membrane replacement may not be considered a~~
1151 ~~structural alteration or repair for purposes of this section. Beginning July 1, 2014, a building~~
1152 ~~constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as~~
1153 ~~cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the~~
1154 ~~building is undergoing a total reroofing. Parapet bracing, wall anchors, and appendages~~
1155 ~~required by this section shall be evaluated in accordance with 75% of the seismic forces as~~
1156 ~~specified in Section 1613. When allowed by the local building official, alternate methods of~~
1157 ~~equivalent strength as referenced in an approved code under Utah Code, Subsection~~
1158 ~~15A-1-204(6)(a), will be considered when accompanied by engineer-sealed drawings, details,~~
1159 ~~and calculations. When found to be deficient because of design or deteriorated condition, the~~
1160 ~~engineer's recommendations to anchor, brace, reinforce, or remove the deficient feature shall be~~
1161 ~~implemented.]~~

1162 [Exceptions:]
 1163 [~~1. Group R-3 and U occupancies:~~]
 1164 [~~2. Unreinforced masonry parapets need not be braced according to the above stated provisions~~
 1165 ~~provided that the maximum height of an unreinforced masonry parapet above the level of the~~
 1166 ~~diaphragm tension anchors or above the parapet braces shall not exceed one and one-half times~~
 1167 ~~the thickness of the parapet wall. The parapet height may be a maximum of two and one-half~~
 1168 ~~times its thickness in other than Seismic Design Categories D, E, or F."]~~

1169 [~~(2) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Seismic.~~
 1170 ~~When a change in occupancy results in a structure being reclassified to a higher Risk Category~~
 1171 ~~(as defined in Table 1604.5), or when such change of occupancy results in a design occupant~~
 1172 ~~load increase of 100% or more, the structure shall conform to the seismic requirements for a~~
 1173 ~~new structure.]~~

1174 [Exceptions:]
 1175 [~~1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall~~
 1176 ~~not be required to be met where it can be shown that the level of performance and seismic~~
 1177 ~~safety is equivalent to that of a new structure. A demonstration of equivalence analysis shall~~
 1178 ~~consider the regularity, overstrength, redundancy, and ductility of the structure. Alternatively,~~
 1179 ~~the building official may allow the structure to be upgraded in accordance with referenced~~
 1180 ~~sections as found in an approved code under Utah Code, Subsection 15A-1-204(6)(a).]~~

1181 [~~2. When a change of use results in a structure being reclassified from Risk Category I or II to~~
 1182 ~~Risk Category III and the structure is located in a seismic map area where SDS is less than~~
 1183 ~~0.33, compliance with the seismic requirements of this code and ASCE 7 are not required.]~~

1184 [~~3. Where design occupant load increase is less than 25 occupants and the Risk Category does~~
 1185 ~~not change."]~~

1186 [~~(3)~~] (1) In IBC, Chapter 35, the referenced standard ICCA117.1-09, Section 606.2,
 1187 Exception 1 is modified to include the following sentence at the end of the exception:

1188 "The minimum clear floor space shall be centered on the sink assembly."

1189 [~~(4)~~] (2) The following referenced standard is added under UL in IBC, Chapter 35:

"Number	Title	Referenced in code section number
---------	-------	-----------------------------------

1190

1191	2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"
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1192 Section 16. Section **15A-3-202** is amended to read:

1193 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

1194 (1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2
1195 Physical change for bedroom window egress. A structure whose egress window in an existing
1196 bedroom is smaller than required by this code, and that complied with the construction code in
1197 effect at the time that the bedroom was finished, is not required to undergo a physical change to
1198 conform to this code if the change would compromise the structural integrity of the structure or
1199 could not be completed in accordance with other applicable requirements of this code,
1200 including setback and window well requirements."

1201 (2) In IRC, Section 109:

1202 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant
1203 exterior wall envelope inspections. An inspection shall be made of the weather-resistant
1204 exterior wall envelope as required by Section R703.1 and flashings as required by Section
1205 R703.8 to prevent water from entering the weather-resistive barrier."

1206 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;
1207 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced
1208 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;
1209 and R109.1.7 Final inspection.

1210 (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to
1211 owner. Upon notice from the building official that work on any building or structure is being
1212 prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an
1213 unsafe and dangerous manner, such work shall be immediately stopped. The stop work order
1214 shall be in writing and shall be given to the owner of the property involved, or to the owner's
1215 agent or to the person doing the work; and shall state the conditions under which work will be
1216 permitted to resume."

1217 (4) In IRC, Section R202, the following definition is added: "CERTIFIED
1218 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to

1219 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction
1220 under Utah Code, Subsection 19-4-104(4)."

1221 (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by
1222 deleting the words at the end of the sentence "being heated or cooled by any equipment or
1223 appliance" and replacing them with the following: "enclosed within the building thermal
1224 envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following
1225 means:

- 1226 1. Openings directly into an adjacent conditioned space.
- 1227 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
- 1228 3. Un-insulated duct, piping or other heat or cooling source within the space."

1229 (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced
1230 with the following: "CROSS CONNECTION. Any physical connection or potential
1231 connection or arrangement between two otherwise separate piping systems, one of which
1232 contains potable water and the other either water of unknown or questionable safety or steam,
1233 gas, or chemical, whereby there exists the possibility for flow from one system to the other,
1234 with the direction of flow depending on the pressure differential between the two systems (see
1235 "Backflow, Water Distribution")."

1236 (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the
1237 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear
1238 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without
1239 objectionable odors; non-highly pigmented; and will not interfere with the operation of the
1240 sewer treatment facility."

1241 (8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced
1242 with the following: "POTABLE WATER. Water free from impurities present in amounts
1243 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,
1244 Title 19, [~~Chapters~~] Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water
1245 Quality Act, and the regulations of the public health authority having jurisdiction."

1246 (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table
1247 R301.2(5b) as follows:

"TABLE NO. R301.2(5a)
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS

	COUNTY	Po	S	Ao
1250				
1251	Beaver	43	63	6.2
1252	Box Elder	43	63	5.2
1253	Cache	50	63	4.5
1254	Carbon	43	63	5.2
1255	Daggett	43	63	6.5
1256	Davis	43	63	4.5
1257	Duchesne	43	63	6.5
1258	Emery	43	63	6.0
1259	Garfield	43	63	6.0
1260	Grand	36	63	6.5
1261	Iron	43	63	5.8
1262	Juab	43	63	5.2
1263	Kane	36	63	5.7
1264	Millard	43	63	5.3
1265	Morgan	57	63	4.5
1266	Piute	43	63	6.2
1267	Rich	57	63	4.1
1268	Salt Lake	43	63	4.5
1269	San Juan	43	63	6.5
1270	Sanpete	43	63	5.2
1271	Sevier	43	63	6.0
1272	Summit	86	63	5.0
1273	Tooele	43	63	4.5
1274	Uintah	43	63	7.0
1275	Utah	43	63	4.5
1276	Wasatch	86	63	5.0
1277	Washington	29	63	6.0

1278	Wayne	36	63	6.5
1279	Weber	43	63	4.5

1280	TABLE NO. R301.2(5b)				
1281	REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS ^{1,2}				
1282	The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.				
1283	County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) ⁶
1284	Carbon	Price ³	5550	43	30
		All other county locations ⁵	--	--	--
1285	Davis	Fruit Heights ³	4500 - 4850	57	40
1286	Emery	Green River ³	4070	36	25
1287	Garfield	Panguitch ³	6600	43	30
1288	Rich	Woodruff ³	6315	57	40
		Laketown ⁴	6000	57	40
		Garden City ⁵	--	--	--
		Randolph ⁴	6300	57	40
1289	San Juan	Monticello ³	6820	50	35
1290	Summit	Coalville ³	5600	86	60
		Kamas ⁴	6500	114	80
1291	Tooele	Tooele ³	5100	43	30
1292	Utah	Orem ³	4650	43	30
		Pleasant Grove ⁴	5000	43	30
		Provo ⁵	--	--	--
1293	Wasatch	Heber ⁵	--	--	--
1294	Washington	Leeds ³	3460	29	20
		Santa Clara ³	2850	21	15
		St. George ³	2750	21	15
		All other county locations ⁵	--	--	--

1295	Wayne	Loa3	7080	43	30
1296	1The IRC requires a minimum live load -- See R301.6.				
1297	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.				
1298	3Values adopted from Table VII of the Utah Snow Load Study				
1299	4Values based on site-specific study. Contact local Building Official for additional information.				
1300	5Contact local Building Official.				
1301	6Based on $C_e = 1.0$, $C_t = 1.0$ and $I_s = 1.0$ "				

1302 (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah
 1303 Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions
 1304 identified in that table. Otherwise, the ground snow load, P_g , to be used in the determination
 1305 of design snow loads for buildings and other structures shall be determined by using the
 1306 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
 1307 than or equal to A_o .

1308 WHERE:

1309 P_g = Ground snow load at a given elevation (psf);

1310 P_o = Base ground snow load (psf) from Table No. R301.2(5a);

1311 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);

1312 A = Elevation above sea level at the site (ft./1,000);

1313 A_o = Base ground snow elevation from Table R301.2(5a) (ft./1,000).

1314 The building official may round the roof snow load to the nearest 5 psf. The ground snow
 1315 load, P_g , may be adjusted by the building official when a licensed engineer or architect submits
 1316 data substantiating the adjustments.

1317 Where the minimum roof live load in accordance with Table R301.6 is greater than the design
 1318 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to
 1319 a load lower than the design roof snow load. Drifting need not be considered for roof snow
 1320 loads less than 20 psf."

1321 [~~(11) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced with~~

1322 the following:]

1323 ["Exceptions:]

1324 [1. ~~A common 2-hour fire-resistance-rated wall is permitted for townhouses if such walls do~~
1325 ~~not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common~~
1326 ~~wall. Electrical installation shall be installed in accordance with Chapters 34 through 43.~~
1327 ~~Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.]~~

1328 [2. ~~In buildings equipped with an automatic residential fire sprinkler system, a".]~~

1329 [~~(12) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6.~~

1330 ~~Townhouses separated by a common 2-hour fire-resistance-rated wall as provided in Section~~
1331 ~~R302.2."]~~

1332 [~~(13)~~ (11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and
1333 replaced with "self-latching hardware".

1334 (12) IRC, Section R302.13, is deleted.

1335 [~~(14)~~ (13) In IRC, Section R303.4, the number "5" is changed to "3" in the first
1336 sentence.

1337 [~~(15)~~ (14) IRC, Sections R311.7.4 through [~~R311.7.4.3~~] R311.7.5.3, are deleted and
1338 replaced with the following: "R311.7.4 Stair treads and risers. [~~R311.7.4.1~~] R311.7.5.1 Riser
1339 height. The maximum riser height shall be 8 inches (203 mm). The riser shall be measured
1340 vertically between leading edges of the adjacent treads. The greatest riser height within any
1341 flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

1342 [~~R311.7.4.2~~] R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm).
1343 The tread depth shall be measured horizontally between the vertical planes of the foremost
1344 projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread
1345 depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).
1346 Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at
1347 a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall
1348 have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the
1349 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by
1350 more than 3/8 inch (9.5 mm).

1351 [~~R311.7.4.3~~] R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall
1352 be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more

1353 than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing
1354 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)
1355 between two stories, including the nosing at the level of floors and landings. Beveling of
1356 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the
1357 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad)
1358 from the vertical. Open risers are permitted, provided that the opening between treads does not
1359 permit the passage of a 4-inch diameter (102 mm) sphere.

1360 Exceptions.

- 1361 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
1362 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches
1363 (762 mm) or less."

1364 [~~(16) In IRC, Section R312.1.2, the words "adjacent fixed seating" are deleted.~~]

1365 [~~(17)~~ (15) IRC, Section R312.2, is deleted.

1366 [~~(18)~~ (16) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the
1367 following: "R313.1 Design and installation. When installed, automatic residential fire
1368 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and
1369 installed in accordance with Section P2904 or NFPA 13D."

1370 (17) In IRC, Section 315.3, the following words are added to the first sentence after the
1371 word "installed": "on each level of the dwelling unit and".

1372 [~~(19) A new~~ (18) In IRC, Section R315.5, a new exception, 3, is added as follows:

1373 [~~"R315.5 Power source. Carbon monoxide alarms shall receive their primary power from the~~
1374 ~~building wiring when such wiring is served from a commercial source, and when primary~~
1375 ~~power is interrupted, shall receive power from a battery. Wiring shall be permanent and~~
1376 ~~without a disconnecting switch other than those required for over-current protection.~~]

1377 [Exceptions:]

1378 [~~1. Carbon monoxide alarms shall be permitted to be battery operated when installed in~~
1379 ~~buildings without commercial power.]~~

1380 [~~2~~] 3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where
1381 the alterations or repairs do not result in the removal of interior wall or ceiling finishes
1382 exposing the structure, unless there is an attic, crawl space or basement available which could
1383 provide access for hard wiring, without the removal of interior finishes."

1384 [(20)] (19) A new IRC, Section ~~[R315.6]~~ R315.7, is added as follows: "[~~R315.6~~
1385 R315.7 Interconnection. Where more than one carbon monoxide alarm is required to be
1386 installed within an individual dwelling unit in accordance with Section R315.1, the alarm
1387 devices shall be interconnected in such a manner that the actuation of one alarm will activate
1388 all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be
1389 required where listed wireless alarms are installed and all alarms sound upon activation of one
1390 alarm.

1391 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required
1392 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing
1393 the structure, unless there is an attic, crawl space or basement available which could provide
1394 access for interconnection without the removal of interior finishes."

1395 [(21)] (20) In IRC, Section R403.1.6, a new Exception [~~4~~] 3 is added as follows: "[~~4~~] 3.
1396 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be
1397 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)
1398 from each end of each plate section at interior bearing walls, interior braced wall lines, and at
1399 all exterior walls."

1400 [(22)] (21) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2
1401 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816
1402 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located
1403 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,
1404 interior braced wall lines, and at all exterior walls."

1405 [(23)] (22) In IRC, Section R404.1, a new exception is added as follows: "Exception:
1406 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and
1407 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and
1408 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1409 ~~[(24) IRC, Section R501.3, is deleted.]~~

1410 Section 17. Section **15A-3-203** is amended to read:

1411 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

1412 (1) In IRC, Section ~~[N1101.8]~~ N1101.5 (R103.2), all words after the words "herein
1413 governed." are deleted and replaced with the following: "Construction documents include all
1414 documentation required to be submitted in order to issue a building permit."

1415 (2) In IRC, Section [~~N1101.14~~] N1101.12 (R303.3), all wording after the first sentence
 1416 is deleted.

1417 (3) In IRC, Section N1101.13 (R401.2), add Exception as follows:

1418 "Exception: A project complies if the project demonstrates compliance, using the
 1419 software RESCheck 2012 Utah Energy Conservation Code, of:

1420 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than
 1421 code";

1422 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than
 1423 code"; and

1424 (c) after January 1, 2021, "5 percent better than code.""

1425 [~~(3)~~] (4) In IRC, Table [~~N1102.1.1 (R402.1.1) and Table N1102.1.3 (R402.1.3)~~], the
 1426 rows for "~~climate zone 3~~", "~~climate zone 5 and Marine 4~~", and "~~climate zone 6~~" are deleted and
 1427 replaced and] N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE, a new
 1428 footnote j is added as follows:

1429 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches
 1430 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31
 1431 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil),
 1432 and all other component requirements are met."

1433 [

"TABLE N1102.1.1 (R402.1.1)										
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a										
CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,c}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^d	FLOOR R-VALUE	BASEMENT ^e WALL R-VALUE	SLAB ^f R-VALUE & DEPTH	CRAWL SPACE ^g 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 ^h	13	30 ^e	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	19 or 13 + 5 ^h	15	30 ^e	10/13	10, 4 ft	10/13

^aj. 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."

TABLE N1102.1.3 (R402.1.3)								
EQUIVALENT U-FACTORS ^a								
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS-WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE-WALL U-FACTOR
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065

- 1447] [~~(4)~~] In IRC, Section N1102.2.1 (R402.2.1), the last sentence is deleted.]
- 1448 [~~(5)~~] In IRC, Section N1102.2.2 (R402.2.2), the last sentence is deleted.]
- 1449 [~~(6)~~] In IRC, Section N1102.3.3 (R402.3.3), the last sentence is deleted.]
- 1450 [~~(7)~~] In IRC, Section N1102.3.4 (R402.3.4), the last sentence is deleted.]
- 1451 [~~(8)~~] (5) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is
- 1452 deleted and replaced with the word "or".
- 1453 [~~(9)~~] (6) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and
- 1454 replaced with the following: "Where allowed by the [building] code official, the builder may
- 1455 certify compliance to components criteria for items which may not be inspected during
- 1456 regularly scheduled inspections."
- 1457 [~~(10)~~] (7) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:
- 1458 (a) In the first sentence:
- 1459 (i) on or after January 1, 2019, and before January 1, 2021, replace the word "five"
- 1460 with "3.5"; and
- 1461 (ii) after January 1, 2021, replace the word "five with "three."
- 1462 [~~(a)~~] (b) In the first sentence, the words "in Climate Zones 1 and 2, and [~~3~~] three air
- 1463 changes per hour in [~~Zone~~] Climate Zones 3 through 8" are deleted.
- 1464 [~~(b)~~] (c) In the third sentence, [~~the words "Where required by the building official,"~~
- 1465 ~~and~~] the word "third" [~~are~~] is deleted.
- 1466 [~~(c)~~] (d) The following sentence is inserted after the third sentence: "The following
- 1467 parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed
- 1468 contractors who have completed training provided by Blower Door Test equipment

1469 manufacturers or other comparable training."

1470 ~~[(11) In IRC, Section N1102.4.4 (R402.4.4), the last sentence is deleted.]~~

1471 ~~[(12) In IRC, Section N1103.2.2 (R403.2.2), the requirements for total leakage testing~~
1472 ~~are deleted and replaced with the following:]~~

1473 ~~["1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283~~
1474 ~~L/min) per 100 square feet (9.29 m²) of conditioned floor space when tested at a pressure~~
1475 ~~differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air~~
1476 ~~handler enclosure. All register boots shall be taped or otherwise sealed during the test.]~~

1477 ~~[2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per~~
1478 ~~100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of at~~
1479 ~~least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler~~
1480 ~~enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is~~
1481 ~~not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212~~
1482 ~~L/min) per 100 square feet (9.29 m²) of conditioned floor area."]~~

1483 ~~[(13)] (8) In IRC, Section [N1103.2.2 (R403.2.2);] N1103.3.3 (R403.3.3):~~

1484 ~~(a) the exception for [total] duct air leakage testing is deleted; and~~

1485 ~~(b) the exception for duct air leakage is replaced;~~

1486 ~~(i) on or after January 1, 2017, and before January 1, 2019, with the following:~~

1487 ~~"Exception: The [total] duct air leakage test is not required for systems with all air handlers and~~
1488 ~~at least [50%] 65% of all ducts (measured by length) located entirely within the building~~
1489 ~~thermal envelope.";~~

1490 ~~(ii) on or after January 1, 2019, and before January 1, 2021, with the following:~~

1491 ~~"Exception: The duct air leakage test is not required for systems with all air handlers and at~~
1492 ~~least 75% of all ducts (measured by length) located entirely within the building thermal~~
1493 ~~envelope."; and~~

1494 ~~(iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage~~
1495 ~~test is not required for systems with all air handlers and at least 80% of all ducts (measured by~~
1496 ~~length) located entirely within the building thermal envelope."~~

1497 ~~(9) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the exception:~~

1498 ~~"The following parties shall be approved to conduct testing: Parties certified by BPI or~~
1499 ~~RESNET, or licensed contractors who have completed either training provided by Duct Test~~

1500 equipment manufacturers or other comparable training."

1501 (10) In IRC, Section N1103.3.4 (R403.3.4):

1502 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,
1503 the number 3 is changed to 6, the number 85 is changed to 114.6; and

1504 (b) in Subsection 2:

1505 (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to
1506 8 and the number 113.3 is changed to 226.5;

1507 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to
1508 7 and the number 113.3 is changed to $\hat{S} \rightarrow [226.5] 198.2 \leftarrow \hat{S}$; and

1509 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is
1510 changed to $\hat{S} \rightarrow [226.5] 169.9 \leftarrow \hat{S}$.

1511 ~~[(14)]~~ (11) In IRC, Section ~~[N1103.2.3 (R403.2.3)]~~ N1103.3.5 (R403.3.5), the words
1512 "or plenums" are deleted.

1513 ~~[(15) In IRC, Section N1103.4.2 (R403.4.2), the sentences for "3.", "9.", and the last~~
1514 ~~sentence are deleted.]~~

1515 ~~[(16) In IRC, Section N1103.5 (R403.5), the first sentence is deleted.]~~

1516 ~~[(17) IRC, Section N1104.1 (R404.1) and the exception are deleted, and N1104.1.1~~
1517 ~~(R404.1.1) becomes N1104.1 (R404.1).]~~

1518 ~~[(18) In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under~~
1519 ~~the column STANDARD REFERENCE DESIGN:]~~

1520 ~~[(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per~~
1521 ~~hour in Zones 3 through 8" are deleted.]~~

1522 ~~[(b) In the row "Heating systems^{f-e}", the standard reference design is deleted and~~
1523 ~~replaced with the following:]~~

1524 ~~["Fuel Type: same as proposed design]~~

1525 ~~[Efficiencies:]~~

1526 ~~[Electric: air source heat pump with prevailing federal minimum efficiencies]~~

1527 ~~[Nonelectric furnaces: natural gas furnace with prevailing federal minimum~~
1528 ~~efficiencies]~~

1529 ~~[Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies]~~

1530 ~~[Capacity: sized in accordance with Section N1103.6"]~~

1531 [~~(c) In the row "Cooling systems"^{f,h} the words "As proposed" are deleted and replaced~~
 1532 ~~with the following:~~]

1533 [~~"Fuel Type: Electric]~~

1534 [~~Efficiency: in accordance with prevailing federal minimum standards"]~~

1535 [~~(d) In the row "Service water heating"^{f,g,h,i}, the words "As proposed" are deleted and~~
 1536 ~~replaced with the following:~~]

1537 [~~"Fuel Type: same as proposed design]~~

1538 [~~Efficiency: in accordance with prevailing federal minimum standards]~~

1539 [~~Tank Temperature: 120° F"]~~

1540 [~~(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced~~
 1541 ~~with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to~~
 1542 ~~both the heating and cooling system efficiencies."]~~

1543 [~~(19) In Table N1105.5.2(2) (R405.5.2(2)), the number "0.80" is inserted under~~
 1544 ~~"Forced air systems" for "Distribution system components located in unconditioned space".]~~

1545 (12) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6
 1546 and 7 are renumbered.

1547 ~~§ → [(13) In IRC, Section N1106.2 (R406.2), the last sentence and exception are deleted.~~

1548 ~~—— (14) (13) ← § In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with the~~
 1549 ~~following:~~

1550 TABLE N1106.4 (R406.4)	
1551 MAXIMUM ENERGY RATING INDEX	
CLIMATE ZONE	ENERGY RATING INDEX
15533	65
15545	69
15556	68

1556 [~~(20) § → [(15) (14) ← § In IRC, Section M1307.2, the words "In Seismic Design~~
 1556a ~~Categories [D1 and~~
 1557 ~~D2"] D0, D1, and D2, and in townhouses in Seismic Design Category C", are deleted, and in~~
 1558 ~~Subparagraph 1, the last sentence is deleted.~~

1559 [~~(21) The RESCheck Software adopted by the United States Department of Energy and~~
 1560 ~~modified to meet the requirements of this section shall be used to verify compliance with this~~

1561 section. The software shall address the Total UA alternative approach and account for
1562 Equipment Efficiency Trade-offs when applicable per the standard reference design as
1563 amended.]

1564 [(22)] ~~§~~ → [(16)] (15) ← ~~§~~ IRC, Section [M1411.6] M1411.8, is deleted.

1565 Section 18. Section 15A-3-204 is amended to read:

1566 **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

1567 [(1) In IRC, Table M1601.1.1(2), in the section "Round ducts and enclosed rectangular
1568 ducts", the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced
1569 with "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size,
1570 "0.013" under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under
1571 aluminum minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is
1572 deleted.]

1573 [(2) In IRC, Section M1901.3, the word "only" is inserted between the words "labeled"
1574 and "for".]

1575 [(3)] A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.
1576 Fuel gas services shall be in an approved location and/or provided with structures designed to
1577 protect the fuel gas meter and surrounding piping from physical damage, including falling,
1578 moving, or migrating ice and snow. If an added structure is used, it must provide access for
1579 service and comply with the IBC or the IRC."

1580 Section 19. Section 15A-3-205 is amended to read:

1581 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1582 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water
1583 supply. Where a potable public water supply is not available, individual sources of potable
1584 water supply shall be utilized, provided that the source has been developed in accordance with
1585 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural
1586 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by
1587 the local health department having jurisdiction."

1588 (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every
1589 building in which plumbing fixtures are installed and all premises having drainage piping shall
1590 be connected to a public sewer where the sewer is accessible and is within 300 feet of the
1591 property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage

1592 disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as
 1593 administered by the Department of Environmental Quality, Division of Water Quality."

1594 (3) In IRC, Section [~~P2801.7~~] P2801.8, all words in the first sentence up to the word
 1595 "water" are deleted.

1596 (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly
 1597 testing. The premise owner or [~~his~~] the premise owner's designee shall have backflow
 1598 prevention assemblies operation tested in accordance with administrative rules made by the
 1599 Drinking Water Board at the time of installation, repair, and relocation and at least on an
 1600 annual basis thereafter, or more frequently as required by the authority having jurisdiction.
 1601 Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The
 1602 assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the
 1603 Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the
 1604 Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle
 1605 Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for
 1606 backflow prevention assemblies will consist of any combination of two certifications,
 1607 laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO,
 1608 and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow
 1609 protection assemblies. Also see www.drinkingwater.utah.gov and rules made by the Drinking
 1610 Water Board."

1611 [~~(5) IRC, Table P2902.3, is deleted and replaced with the following:~~]

1612 [

"DEVICE	DEGREE OF HAZARD ^a	APPLICATION ^b	APPLICABLE STANDARDS
BACKFLOW PREVENTION ASSEMBLIES:			
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

1616	Double check detector fire protection backflow prevention assemblies	Low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1048
1617	Pressure vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1020, CSA B64.1.2
1618	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
1619	Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backpressure or backsiphonage (Fire Sprinkler Systems)	ASSE 1047
1620	Spill-resistant vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1056
1621	BACKFLOW PREVENTER PLUMBING DEVICES:			
1622	Antisiphon-type fill valves for gravity water closet flush tanks	High hazard	Backsiphonage only	ASSE 1002, CSA B125.3
1623	Backflow preventer for carbonated beverage machines	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1022
1624	Backflow preventer with intermediate atmospheric vents	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1012, CSA B64.3

1625	Dual check valve type backflow preventers	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 1"	ASSE 1024, CSA B64.6
1626	Hose connection backflow preventer	High or low hazard	Backsiphonage only Sizes 1/2" - 1"	ASSE 1052, CSA B64.2, B64.2.1
1627	Hose connection vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2", 3/4", 1"	ASSE 1011, CAN/CSA B64.1.1
1628	Atmospheric type vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2" - 4"	ASSE 1001, CSA B64.1.1
1629	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
1630	OTHER MEANS or METHODS:			
1631	Air gap	High or low hazard	Backsiphonage only	ASME A112.1.2
1632	Air gap fittings for use with plumbing fixtures, appliances and appurtenances	High or low hazard	Backpressure or backsiphonage	ASME A112.1.3
1633	For SI: 1 inch = 25.4 mm			
1634	a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)			
1635	b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage Section 202)			
1636	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."			

1637] [~~(6) In IRC, Section P3009.1, all words after the word "urinals" are deleted and the~~
 1638 ~~following sentence is added at the end: "Gray water recycling systems for subsurface landscape~~
 1639 ~~irrigation shall conform with UAC R317-401 Gray Water Systems."~~]

1640 [~~(7) A new IRC, Section P3009.1.1, is added as follows: "P3009.1.1 Recording. The~~

1641 existence of a gray water recycling system shall be recorded on the deed of ownership for that
1642 property. The certificate of occupancy shall not be issued until the documentation of the
1643 recording required under this section is completed by the owner."]

1644 [~~(8) In IRC, Section P3009.2, the words "and systems for subsurface landscape
1645 irrigation shall comply with Section P3009.14" are deleted.~~]

1646 [~~(9) IRC, Section P3009.6, is deleted and replaced with the following: "P3009.6
1647 Potable water connections. The potable water supply to any building utilizing a gray water
1648 recycling system shall be protected against backflow by a reduced pressure backflow
1649 prevention assembly installed in accordance with Section P2902."~~]

1650 [~~(10) In IRC, Section P3009.7, the following is added at the end of the sentence: "and
1651 other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;
1652 without objectionable odor, non-highly pigmented; and will not interfere with the operation of
1653 the sewer treatment facility."~~]

1654 [~~(11) In IRC, Section P3009.13.3, in the second sentence, the following is added
1655 between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly
1656 or an air gap installed".~~]

1657 [~~(12) IRC, Section P3009.14, is deleted and replaced with the following: "Section
1658 P3009.14 LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for
1659 subsurface irrigation for single family residences shall comply with the requirements of UAC
1660 R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface
1661 irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for
1662 Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste
1663 Systems."~~]

1664 (5) In IRC, Section P2902.1, the following subsections are added as follows:

1665 "P2902.1.1 General Installation Criteria.

1666 Assemblies shall not be installed more than five feet above the floor unless a permanent
1667 platform is installed. The assembly owner, where necessary, shall provide devices or structures
1668 to facilitate testing, repair, and maintenance, and to insure the safety of the backflow
1669 technician.

1670 P2902.1.2 Specific Installation Criteria.

1671 P2902.1.2.1 Reduced Pressure Principle Blackflow Prevention Assembly.

1672 The reduced pressure principle backflow prevention assembly shall be installed as
1673 follows:

1674 a. The assembly may not be installed in a pit.

1675 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,
1676 including a sanitary sewer, a storm drain, or a vent.

1677 c. The assembly shall be installed in a horizontal position only, unless listed or approved for
1678 vertical installation in accordance with Section 303.4.

1679 d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or
1680 ground.

1681 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1682 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1683 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.

1684 A double check valve backflow prevention assembly shall be installed as follows:

1685 a. The assembly shall be installed in a horizontal position only, unless listed or approved for
1686 vertical installation.

1687 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor.

1688 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1689 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1690 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance
1691 between all sides of the vault, including the floor and roof or ceiling, with adequate room for
1692 testing and maintenance.

1693 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker
1694 Assembly.

1695 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall
1696 be installed as follows:

1697 a. The assembly shall not be installed in an area that could be subject to backpressure or back
1698 drainage conditions.

1699 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and
1700 the highest point of use.

1701 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall
1702 be readily accessible for testing, repair, and maintenance.

1703 d. The assembly shall not be installed below ground, in a vault, or in a pit.

1704 e. The assembly shall be installed in a vertical position."

1705 (6) IRC, Section P2910.5, is deleted and replaced with the following:

1706 "P2910.5 Potable water connections.

1707 When a potable water system is connected to a nonpotable water system, the potable water
1708 system shall be protected against backflow by a reduced pressure backflow prevention
1709 assembly or an air gap installed in accordance with Section 2901."

1710 (7) IRC, Section P2910.9.5, is deleted and replaced with the following:

1711 "P2910.9.5 Makeup water.

1712 Where an uninterrupted nonpotable water supply is required for the intended application,
1713 potable or reclaimed water shall be provided as a source of makeup water for the storage tank.
1714 The makeup water supply shall be protected against backflow by means of an air gap not less
1715 than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow
1716 prevention assembly installed in accordance with Section 2902."

1717 (8) In IRC, Section P2911.12.4, the following words are deleted: "and backwater
1718 valves".

1719 (9) In IRC, Section P2912.15.6, the following words are deleted: "and backwater
1720 valves".

1721 (10) In IRC, Section P2913.4.2, the following words are deleted: "and backwater
1722 valves".

1723 (11) IRC, Section P3009, is deleted and replaced with the following:

1724 "P3009 Connected to nonpotable water from on-site water reuse systems.

1725 Nonpotable systems utilized for subsurface irrigation for single-family residences shall comply
1726 with the requirements of R317-401, UAC, Gray Water Systems."

1727 ~~[(13)]~~ (12) In IRC, Section P3103.6, the following sentence is added at the end of the
1728 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the
1729 wall with an elbow pointing downward."

1730 ~~[(14)]~~ (13) In IRC, Section P3104.4, the following sentence is added at the end of the
1731 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain
1732 and floor sink installations when installed below grade in accordance with Chapter 30, and
1733 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

1734 Section 20. Section **15A-3-206** is amended to read:

1735 **15A-3-206. Amendments to Chapters 36 and 44 of IRC.**

1736 (1) In IRC, Section E3901.9, the following exception is added:

1737 "Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets
 1738 adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the
 1739 garage may be connected to the garage branch circuit."

1740 [~~(1)~~] (2) In IRC, Section [~~E3902.12~~] E3902.16, the following words in the first
 1741 sentence are deleted: "family rooms, dining rooms, living rooms, parlors, libraries, dens," and
 1742 "sunrooms, recreation rooms, closets, hallways, and similar rooms or areas."

1743 (3) In Section E3902.17:

1744 (a) following the word "Exception" the number "1." is added; and

1745 (b) at the end of the section, the following sentences are added:

1746 [~~Exception:~~] "2. This section does not apply for a simple move or an extension of a branch
 1747 circuit or an outlet which does not significantly increase the existing electrical load. This
 1748 exception does not include changes involving remodeling or additions to a residence."

1749 [~~(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"

1752 Section 21. Section **15A-3-302** is amended to read:

1753 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

1754 (1) A new IPC, Section [~~101.2~~] 101.2.1, is added as follows: "For clarification, the
 1755 International Private Sewage Disposal Code is not part of the plumbing code even though it is
 1756 in the same printed volume."

1757 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is
 1758 deleted.

1759 (3) In IPC, Section 202, the following definition is added: "Certified Backflow

1760 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention
1761 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection
1762 [19-4-104\(4\)](#)."

1763 (4) In IPC, Section 202, the following definition is added: "Contamination (High
1764 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the
1765 public health through poisoning or through the spread of disease by sewage, industrial fluids or
1766 waste."

1767 (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced
1768 with the following: "Cross Connection. Any physical connection or potential connection or
1769 arrangement between two otherwise separate piping systems, one of which contains potable
1770 water and the other either water of unknown or questionable safety or steam, gas, or chemical,
1771 whereby there exists the possibility for flow from one system to the other, with the direction of
1772 flow depending on the pressure differential between the two systems (see "Backflow")."

1773 (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A
1774 manufactured or field fabricated trap with a liquid seal of 4" or larger."

1775 [~~(7) In IPC, Section 202, in the definition for gray water a comma is inserted after the
1776 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear
1777 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without
1778 objectionable odors; non-highly pigmented; and will not interfere with the operation of the
1779 sewer treatment facility."~~]

1780 (7) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is
1781 deleted and replaced with the following:
1782 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1,
1783 including propylene glycol; and mineral oil."

1784 (8) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted
1785 and replaced with the following:
1786 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is
1787 not an essentially nontoxic transfer fluid under this code."

1788 [~~(8)~~] (9) In IPC, Section 202, the following definition is added: "High Hazard. See
1789 Contamination."

1790 [~~(9)~~] (10) In IPC, Section 202, the following definition is added: "Low Hazard. See

1791 Pollution."

1792 ~~[(+)]~~ (11) In IPC, Section 202, the following definition is added: "Pollution (Low
1793 Hazard). An impairment of the quality of the potable water to a degree that does not create a
1794 hazard to the public health but that does adversely and unreasonably affect the aesthetic
1795 qualities of such potable water for domestic use."

1796 ~~[(+)]~~ (12) In IPC, Section 202, the definition for "Potable Water" is deleted and
1797 replaced with the following: "Potable Water. Water free from impurities present in amounts
1798 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,
1799 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and
1800 the regulations of the public health authority having jurisdiction."

1801 Section 22. Section **15A-3-303** is amended to read:

1802 **15A-3-303. Amendments to Chapter 3 of IPC.**

1803 (1) In IPC, Section 303.4, the following exception is added:

1804 "Exception: Third-party certification for backflow prevention assemblies will consist of any
1805 combination of two certifications, laboratory or field. Acceptable third party laboratory
1806 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently
1807 provides the only field testing of backflow protection assemblies. Also see
1808 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code,
1809 R309-305-6."

1810 ~~[(2) IPC, Section 304.3, Meter Boxes, is deleted.]~~

1811 ~~[(3)]~~ (2) IPC, Section 311.1, is deleted.

1812 ~~[(4)]~~ (3) In IPC, Section 312.3, the following is added at the end of the paragraph:

1813 "Where water is not available at the construction site or where freezing conditions limit
1814 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be
1815 tested with air. The following procedures shall be followed:

1816 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
1817 explode, causing serious injury or death.

1818 2. Contractor assumes all liability for injury or death to persons or damage to property or for
1819 claims for labor and/or material arising from any alleged failure of the system during testing
1820 with air or compressed gasses.

1821 3. Proper personal protective equipment, including safety eyewear and protective headgear,

1822 should be worn by all individuals in any area where an air or gas test is being conducted.

1823 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1824 5. No [~~water supply~~] drain and vent system shall be pressurized in excess of 6 psi as measured
1825 by accurate gauges graduated to no more than three times the test pressure.

1826 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
1827 minutes.

1828 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
1829 gases should be vented, and test balls and plugs should be removed with caution."

1830 [~~(5)~~] (4) In IPC, Section 312.5, the following is added at the end of the paragraph:

1831 "Where water is not available at the construction site or where freezing conditions limit the use
1832 of water on the construction site, plastic water pipes may be permitted to be tested with air.

1833 The following procedures shall be followed:

1834 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
1835 explode, causing serious injury or death.

1836 2. Contractor assumes all liability for injury or death to persons or damage to property or for
1837 claims for labor and/or material arising from any alleged failure of the system during testing
1838 with air or compressed gasses.

1839 3. Proper personal protective equipment, including safety eyewear and protective headgear,
1840 should be worn by all individuals in any area where an air or gas test is being conducted.

1841 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1842 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80
1843 psi as measured by accurate gauges graduated to no more than three times the test pressure.

1844 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
1845 minutes.

1846 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
1847 gases should be vented, and test balls and plugs should be removed with caution."

1848 ~~§~~ → [(~~6~~)] (5) ← ~~§~~ A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester
1848a Qualifications.

1849 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in
1850 accordance with Utah Administrative Code, R309-305."

1851 Section 23. Section 15A-3-304 is amended to read:

1852 **15A-3-304. Amendments to Chapter 4 of IPC.**

1853 (1) In IPC, Table 403.1, the following changes are made:

1854 (a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,
1855 Minimum Number of Required Plumbing [~~Facilities^{a, b}~~] Fixtures_{a, h}";

1856 (b) In [~~the~~] row [~~for~~] number "3", for "E" occupancy₂ in the field for "OTHER"₂, a new
1857 footnote [~~i~~] g is added.

1858 (c) In [~~the~~] row number "5", for "I-4 Adult day care and child day care" occupancy₂ in
1859 the field for "OTHER"₂, a new footnote [~~i~~] g is added.

1860 (d) A new footnote [~~h~~] f is added as follows: "FOOTNOTE: [~~h~~] f. When provided, in
1861 public toilet facilities₂, there shall be an equal number of diaper changing facilities in male toilet
1862 rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of
1863 ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper
1864 Changing Tables for Commercial Use."

1865 (e) A new footnote [~~i~~] g is added to the table as follows: "FOOTNOTE [~~i~~] g:
1866 Non-residential child care facilities shall comply [~~with additional sink requirements of Utah~~
1867 ~~Administrative Code R430-100-4.~~] with the additional requirements for sinks in administrative
1868 rule made by the Department of Health."

1869 (2) A new IPC, Section 406.3, is added as follows: " 406.3 Automatic clothes washer
1870 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in
1871 accordance with Section 504.7."

1872 (3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All
1873 public toilet rooms in A & E occupancies and M occupancies with restrooms having multiple
1874 water closets or urinals shall be equipped with at least one floor drain."

1875 (4) IPC, Section 423.3, is deleted.

1876 Section 24. Section **15A-3-305** is amended to read:

1877 **15A-3-305. Amendments to Chapter 5 of IPC.**

1878 (1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic
1879 supports. [~~Appliances designed to be fixed in position shall be fastened or anchored in an~~
1880 ~~approved manner. Water]~~ As a minimum requirement, water heaters shall be anchored or
1881 strapped to resist horizontal displacement caused by earthquake motion. Strapping shall be at
1882 points within the upper one-third and lower one-third of the appliance's vertical dimensions.
1883 [~~At the lower point, the strapping shall maintain a minimum distance of 4 inches (102 mm)~~"]

1884 ~~above the controls.]"~~

1885 (2) In IPC, Section 504.7.2, the following is added at the end of the section: "When
1886 permitted by the code official, the pan drain may be directly connected to a soil stack, waste
1887 stack, or branch drain. The pan drain shall be individually trapped and vented as required in
1888 Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap
1889 shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type
1890 floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1891 (3) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation. A
1892 water heater pan shall be considered an emergency receptor designated to receive the discharge
1893 of water from the water heater only and shall not receive the discharge from any other fixtures,
1894 devises, or equipment."

1895 Section 25. Section **15A-3-306** is amended to read:

1896 **15A-3-306. Amendments to Chapter 6 of IPC.**

1897 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual
1898 water supply. Where a potable public water supply is not available, individual sources of
1899 potable water supply shall be utilized provided that the source has been developed in
1900 accordance with Utah Code, Sections [73-3-1](#), [73-3-3](#), and [73-3-25](#), as administered by the
1901 Department of Natural Resources, Division of Water Rights. In addition, the quality of the
1902 water shall be approved by the local health department having jurisdiction. The source shall
1903 supply sufficient quantity of water to comply with the requirements of this chapter."

1904 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are
1905 deleted.

1906 (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated
1907 metering faucets for food service establishments. Self closing or manually operated metering
1908 faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the
1909 faucet."

1910 (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water
1911 pressure booster systems. Water pressure booster systems shall be provided as required by
1912 Section 606.5.1 through 606.5.11."

1913 (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited
1914 installation. In no case shall a booster pump be allowed that will lower the pressure in the

1915 public main to less than the minimum water pressure specified in Utah Administrative Code
 1916 R309-105-9."

1917 (6) In IPC, Section 608.1, the words "and pollution" are added after the word
 1918 "contamination."

1919 [~~(7) IPC, Table 608.1, is deleted and replaced with the following:~~]

1920 [

"TABLE 608.1			
Application of Back Flow Preventers			
DEVICE	DEGREE OF HAZARD ^a	APPLICATION ^b	APPLICABLE STANDARDS
BACKFLOW PREVENTION ASSEMBLIES:			
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
Double check detector fire protection backflow prevention assemblies	Low hazard	Backpressure or backsiphonage Sizes 3/8" - 16"	ASSE 1048
Pressure vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1020, CSA B64.1.2
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

1929	Reduced pressure detector fire protection backflow prevention assemblies	High or low hazard	Backpressure or backsiphonage (Fire Sprinkler Systems)	ASSE 1047
1930	Spill-resistant vacuum breaker assembly	High or low hazard	Backsiphonage only Sizes 1/2" - 2"	ASSE 1056
1931	BACKFLOW PREVENTER PLUMBING DEVICES:			
1932	Antisiphon-type fill valves for gravity water closet flush tanks	High hazard	Backsiphonage only	ASSE 1002, CSA B125.3
1933	Backflow preventer for carbonated beverage machines	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1022
1934	Backflow preventer with intermediate atmospheric vents	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 3/8"	ASSE 1012, CSA B64.3
1935	Dual check valve type backflow preventers	Low hazard	Backpressure or backsiphonage Sizes 1/4" - 1"	ASSE 1024, CSA B64.6
1936	Hose connection backflow preventer	High or low hazard	Backsiphonage only Sizes 1/2" - 1"	ASSE 1052, CSA B64.2, B64.2.1
1937	Hose connection vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2", 3/4", 1"	ASSE 1011, CAN/CSA B64.1.1
1938	Atmospheric type vacuum breaker	High or low hazard	Backsiphonage only Sizes 1/2" - 4"	ASSE 1001, CSA B64.1.1
1939	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
1940	OTHER MEANS or METHODS:			

1941	Air gap	High or low hazard	Backsiphonage only	ASME A112.1.2
1942	Air gap fittings for use with plumbing fixtures, appliances and appurtenances	High or low hazard	Backpressure or backsiphonage	ASME A112.1.3
1943	For SI: 1 inch = 25.4 mm			
1944	a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)			
1945	b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage (Section 202)			
1946	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."			

1947] (7) In IPC, Section 608.1, the following subsections are added as follows:
 1948 "608.1.1 General Installation Criteria.
 1949 An assembly shall not be installed more than five feet above the floor unless a permanent
 1950 platform is installed. The assembly owner, where necessary, shall provide devices or structures
 1951 to facilitate testing, repair, and maintenance and to insure the safety of the backflow technician.
 1952 608.1.2 Specific Installation Criteria.
 1953 608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.
 1954 A reduced pressure principle backflow prevention assembly shall be installed as follows:
 1955 a. The assembly shall not be installed in a pit.
 1956 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,
 1957 including a sanitary sewer, storm drain, or vent.
 1958 c. The assembly shall be installed in a horizontal position, unless the assembly is listed or
 1959 approved for vertical installation in accordance with Section 303.4.
 1960 d. The bottom of each assembly shall be installed a minimum of 12 inches above the ground or
 1961 the floor.
 1962 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
 1963 obstacle, and shall be readily accessible for testing, repair, and maintenance.
 1964 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

- 1965 A double check valve backflow prevention assembly shall be installed as follows:
1966 a. The assembly shall be installed in a horizontal position unless the assembly is listed or
1967 approved for vertical installation.
1968 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the floor.
1969 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1970 obstacle, and shall be readily accessible for testing, repair, and maintenance.
1971 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance
1972 around all sides of the vault, including the floor and roof or ceiling, with adequate room for
1973 testing and maintenance.

1974 608.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker
1975 Assembly.

- 1976 A pressure vacuum break assembly and spill resistant pressure vacuum breaker assembly shall
1977 be installed as follows:
1978 a. The assembly shall not be installed in an area that could be subject to backpressure or back
1979 drainage conditions.
1980 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and
1981 the highest point of use.
1982 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall
1983 be readily accessible for testing, repair, and maintenance.
1984 d. The assembly shall not be installed below ground or in a vault or pit.
1985 e. The assembly shall be installed in a vertical position."

1986 (8) In IPC, Section 608.3, the word "and" after the word "contamination" is deleted and
1987 replaced with a comma and the words "and pollution" are added after the word "contamination"
1988 in the first sentence.

1989 (9) In IPC, Section 608.5, the words "with the potential to create a condition of either
1990 contamination or pollution or" are added after the word "substances".

1991 (10) In IPC, Section 608.6, the following sentence is added at the end of the paragraph:
1992 "Any connection between potable water piping and sewer-connected waste shall be protected
1993 by an air gap in accordance with Section 608.13.1."

1994 (11) IPC, Section 608.7, is deleted and replaced with the following: "608.7 Stop and
1995 Waste Valves installed below grade. Combination stop-and-waste valves shall be permitted to

1996 be installed underground or below grade. Freeze proof yard hydrants that drain the riser into
1997 the ground are considered to be stop-and-waste valves and shall be permitted. A
1998 stop-and-waste valve shall be installed in accordance with a manufacturer's recommended
1999 installation instructions."

2000 (12) In IPC, Section 608.11, the following sentence is added at the end of the
2001 paragraph: "The coating and installation shall conform to NSF Standard 61 and application of
2002 the coating shall comply with the manufacturer's instructions."

2003 (13) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3
2004 Backflow preventer with intermediate atmospheric vent. Backflow preventers with
2005 intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These
2006 devices shall be permitted to be installed on residential boilers only, without chemical
2007 treatment, where subject to continuous pressure conditions. The relief opening shall discharge
2008 by air gap and shall be prevented from being submerged."

2009 (14) IPC, Section 608.13.4, is deleted.

2010 (15) IPC, Section 608.13.9, is deleted and replaced with the following: "608.13.9
2011 Chemical dispenser backflow devices. Backflow devices for chemical dispensers shall comply
2012 with Section 608.16.7."

2013 (16) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3
2014 Protection by a backflow preventer with intermediate atmospheric vent. Connections to
2015 residential boilers only, without chemical treatment, shall be protected by a backflow preventer
2016 with an intermediate atmospheric vent."

2017 (17) IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4
2018 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type
2019 or pressure-type vacuum breakers. Vacuum breakers shall not be installed under exhaust hoods
2020 or similar locations that will contain toxic fumes or vapors. Fill valves shall be set in
2021 accordance with Section 425.3.1. Atmospheric Vacuum Breakers - The critical level of the
2022 atmospheric vacuum breaker shall be set a minimum of 6 inches (152 mm) above the flood
2023 level rim of the fixture or device. Pipe-applied vacuum breakers shall be installed not less than
2024 6 inches (152 mm) above the flood level rim of the fixture, receptor, or device served. No
2025 valves shall be installed downstream of the atmospheric vacuum breaker. Pressure Vacuum
2026 Breaker - The critical level of the pressure vacuum breaker shall be set a minimum of 12 inches

2027 (304 mm) above the flood level of the fixture or device."

2028 (18) In IPC, Section 608.15.4.2, the following is added after the first sentence:

2029 "Add-on-backflow prevention devices shall be non-removable. In climates where freezing
2030 temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow
2031 preventer shall be used."

2032 (19) IPC, Section 608.16.2, is deleted and replaced as follows: "608.16.2 Connections
2033 to boilers. The potable supply to a boiler shall be protected by an air gap or a reduced pressure
2034 principle backflow preventer, complying with ASSE 1013, CSA B64.4 or AWWA C511.

2035 Exception: The potable supply to a residential boiler without chemical treatment may be
2036 equipped with a backflow preventer with an intermediate atmospheric vent complying with
2037 ASSE 1012 or CSA CAN/CSA-B64.3."

2038 [~~(20) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3 Heat
2039 exchangers. Heat exchangers shall be separated from potable water by double-wall
2040 construction. An air gap open to the atmosphere shall be provided between the two walls:]~~

2041 [Exceptions:]

2042 [~~1. Single wall heat exchangers shall be permitted when all of the following conditions are
2043 met:]~~

2044 [~~a. It utilizes a heat transfer medium of potable water or contains only substances which are
2045 recognized as safe by the United States Food and Drug Administration (FDA);]~~

2046 [~~b. The pressure of the heat transfer medium is maintained less than the normal minimum
2047 operating pressure of the potable water system; and]~~

2048 [~~c. The equipment is permanently labeled to indicate only additives recognized as safe by the
2049 FDA shall be used;]~~

2050 [~~2. Steam systems that comply with paragraph 1 above.]~~

2051 [~~3. Approved listed electrical drinking water coolers."]~~

2052 [(21)] (20) In IPC, Section 608.16.4.1, a new exception is added as follows:

2053 "Exception: All class 1 and 2 systems containing chemical additives consisting of strictly
2054 glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against
2055 backflow with a double check valve assembly. Such systems shall include written certification
2056 of the chemical additives at the time of original installation and service or maintenance."

2057 [(22)] (21) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7

2058 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the
 2059 water supply system shall be protected against backflow in accordance with Section 608.13.1,
 2060 Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8. Installation shall be
 2061 in accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated
 2062 water supply [~~separate from any~~] line, and not a sink faucet."

2063 [~~(23)~~] (22) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8
 2064 Portable cleaning equipment. Where the portable cleaning equipment connects to the water
 2065 distribution system, the water supply system shall be protected against backflow in accordance
 2066 with Section 608.13.1[;] or Section 608.13.2 [~~or Section 608.13.8~~]."

2067 [~~(24)~~] (23) A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic
 2068 and coin operated car washes. The water supply to an automatic or coin operated car wash
 2069 shall be protected in accordance with Section 608.13.1 or Section 608.13.2."

2070 [~~(25)~~] (24) IPC, Section 608.17, is deleted and replaced with the following: "608.17
 2071 Protection of individual water supplies. See Section 602.3 for requirements."

2072 Section 26. Section **15A-3-308** is amended to read:

2073 **15A-3-308. Amendments to Chapter 8 of IPC.**

2074 [~~IPC, Chapter 8, is not amended.~~]

2075 In IPC, Section 802.1.1, the last sentence is deleted.

2076 Section 27. Section **15A-3-310** is amended to read:

2077 **15A-3-310. Amendments to Chapter 10 of IPC.**

2078 [~~In IPC, Section 1002.4, the following is added at the end of the paragraph: "Approved~~
 2079 ~~Means of Maintaining Trap Seals. Approved means of maintaining trap seals include the~~
 2080 ~~following, but are not limited to the methods cited:]~~

2081 [~~1. A listed trap seal primer conforming to ASSE 1018 and ASSE 1044.]~~

2082 [~~2. A hose bibb or bibbs within the same room.]~~

2083 [~~3. Drainage from an untrapped lavatory discharging to the tailpiece of those fixture~~
 2084 ~~traps which require priming. All fixtures shall be in the same room and on the same floor level~~
 2085 ~~as the trap primer.]~~

2086 [~~4. Barrier type floor drain trap seal protection device meeting ASSE Standard 1072.]~~

2087 [~~5. Deep seal p-trap".]~~

2088 IPC, Chapter 10, is not amended.

2089 Section 28. Section **15A-3-311** is amended to read:

2090 **15A-3-311. Amendments to Chapter 11 of IPC.**

2091 [~~(1) IPC, Section 1104.2, is deleted and replaced with the following: "1104.2~~

2092 ~~Combining storm and sanitary drainage prohibited. The combining of sanitary and storm~~
2093 ~~drainage systems is prohibited."~~]

2094 (1) A new IPC, Section 1106.1.1, is added as follows:

2095 "1106.1.1 Alternate Methods.

2096 An approved alternate storm drain sizing method may be allowed."

2097 (2) IPC, Section 1109, is deleted.

2098 Section 29. Section **15A-3-313** is amended to read:

2099 **15A-3-313. Amendments to Chapter 13 of IPC.**

2100 [~~(1) In IPC, Section 1301.1, all words after the word "urinals" are deleted and the~~
2101 ~~following sentence is added at the end: "Gray water recycling systems for subsurface landscape~~
2102 ~~irrigation shall conform with UAC R317-401 Gray Water Systems."~~]

2103 [~~(2) A new IPC, Section 1301.1.1, is added as follows: "1301.1.1 Recording. The~~
2104 ~~existence of a gray water recycling system shall be recorded on the deed of ownership for that~~
2105 ~~property. The certificate of occupancy shall not be issued until the documentation of the~~
2106 ~~recording required under this section is completed by the owner."~~]

2107 [~~(3) In IPC, Section 1301.2, the words "and systems for subsurface landscape irrigation~~
2108 ~~shall comply with Section 1303" are deleted.]~~

2109 [~~(4) IPC, Section 1301.6, is deleted and replaced with the following: "1301.6 Potable~~
2110 ~~water connections. The potable water supply to any building utilizing a gray water recycling~~
2111 ~~system shall be protected against backflow by a reduced pressure backflow prevention~~
2112 ~~assembly installed in accordance with Section 608."~~]

2113 [~~(5) In IPC, Section 1301.7, the following is added at the end of the sentence: "and~~
2114 ~~other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;~~
2115 ~~without objectionable odor; non-highly pigmented; and will not interfere with the operation of~~
2116 ~~the sewer treatment facility."~~]

2117 [~~(6) In IPC, Section 1302.3, in the second sentence, the following is added between the~~
2118 ~~words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap~~
2119 ~~installed".]~~

2120 ~~[(7) IPC, Section 1303, is deleted and replaced with the following: "Section 1303~~
2121 ~~SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems~~
2122 ~~utilized for subsurface irrigation for single family residences shall comply with the~~
2123 ~~requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized~~
2124 ~~for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design~~
2125 ~~Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite~~
2126 ~~Waterwaste Systems."]~~

2127 (1) A new IPC, Section 1301.4.1, is added as follows:

2128 "1301.4.1 Recording.

2129 The existence of a nonpotable water system shall be recorded on the deed of ownership for the
2130 property. The certificate of occupancy shall not be issued until the documentation for the
2131 recording required under this section is completed by the property owner."

2132 (2) IPC, Section 1301.5, is deleted and replaced with the following:

2133 "1301.5 Potable water connections.

2134 Where a potable water system is connected to a nonpotable water system, the potable water
2135 supply shall be protected against backflow by a reduced pressure backflow prevention
2136 assembly or an air gap installed in accordance with Section 608."

2137 (3) IPC, Section 1301.9.5, is deleted and replaced with the following:

2138 "1301.9.5 Makeup water.

2139 Where an uninterrupted supply is required for the intended application, potable or reclaimed
2140 water shall be provided as a source of makeup water for the storage tank. The makeup water
2141 supply shall be protected against backflow by a reduced pressure backflow prevention
2142 assembly or an air gap installed in accordance with Section 608. A full-open valve located on
2143 the makeup water supply line to the storage tank shall be provided. Inlets to the storage tank
2144 shall be controlled by fill valves or other automatic supply valves installed to prevent the tank
2145 from overflowing and to prevent the water level from dropping below a predetermined point.
2146 Where makeup water is provided, the water level shall not be permitted to drop below the
2147 source water inlet or the intake of any attached pump."

2148 (4) IPC, Section 1302.12.4, is deleted and replaced with the following:

2149 "1302.12.4 Inspection and testing of backflow prevention assemblies.

2150 Testing of a backflow preventer shall be conducted in accordance with Sections 312.10.1,

2151 312.10.2, and 312.10.3."

2152 (5) IPC, Section 1303.15.6, is deleted and replaced with the following:

2153 "1303.15.6 Inspection and testing of backflow prevention assemblies.

2154 Testing of a backflow prevention assembly shall be conducted in accordance with Sections

2155 312.10.1, 312.10.2, and 312.10.3."

2156 (6) IPC, Section 1304.4.2, is deleted and replaced with the following:

2157 "1304.4.2 Inspection and testing of backflow prevention assemblies.

2158 Testing of a backflow preventer or backwater valve shall be conducted in accordance with

2159 Sections 312.10.1, 312.10.2, and 312.10.3."

2160 Section 30. Section **15A-3-314** is amended to read:

2161 **15A-3-314. Amendments to Chapter 14 of IPC.**

2162 [~~(1) In IPC, Chapter 14, the following referenced standard is added under ASSE:]~~

2163 [

"Standard reference number	Title	Referenced in code section number
1072-2007	Performance Requirements for Barrier Type Floor Drain Trap Seal Protection Devices	1004.2"

2166] [~~(2) In IPC, Chapter 14, the following referenced standard is added:]~~

2167 [

"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 608.1"

2170] IPC, Chapter 14, is deleted and replaced with the following:

2171 "1401. Subsurface Landscape Irrigation Systems.

2172 Gray water recycling systems utilized for subsurface irrigation for single-family residences

2173 shall comply with the requirements of UAC R317-401, Gray Water Systems. Gray water
 2174 recycling systems utilized for subsurface irrigation for other occupancies shall comply with
 2175 UAC R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal, and
 2176 UAC R317-4, Onsite Waterwaste Systems."

2177 Section 31. Section 15A-3-315 is enacted to read:

2178 **15A-3-315. Amendments to Chapter 15 of IPC.**

2179 In IPC, Chapter 15, the following referenced standard is added:

<u>"Standard reference number</u>	<u>Title</u>	<u>Referenced in code section number</u>
<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>

2182 Section 32. Section 15A-3-401 is amended to read:

2183 **15A-3-401. General provisions.**

2184 The following are adopted as amendments to the IMC to be applicable statewide:

2185 ~~[(1) In IMC, Section 202, the definition for "CONDITIONED SPACE" is deleted and~~
 2186 ~~replaced with the following: "CONDITIONED SPACE. An area, room, or space enclosed~~
 2187 ~~within the building thermal envelope that is directly heated or cooled, or indirectly heated or~~
 2188 ~~cooled by any of the following means:]~~

- 2189 ~~[1. Openings directly into an adjacent conditioned space.]~~
- 2190 ~~[2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.]~~
- 2191 ~~[3. Un-insulated duct, piping or other heat or cooling source within the space."]~~

2192 ~~[(2) In IMC, Section 403.2.1, Item 3, is deleted and replaced with the following:~~
 2193 ~~"Except as provided in Table 403.3, Note h, where mechanical exhaust is required by Note b in~~
 2194 ~~Table 403.3, recirculation of air from such spaces is prohibited. All air supplied to such spaces~~
 2195 ~~shall be exhausted, including any air in excess of that required by Table 403.3."]~~

2196 ~~[(3) In IMC, Table 403.3, Note b, is deleted and replaced with the following: "Except~~
 2197 ~~as provided in Note h, mechanical exhaust required and the recirculation of air from such~~

2198 spaces is prohibited (see Section 403.2.1, Item 3)."]

2199 [~~(4) In IMC, Table 403.3, Note h is deleted and replaced with the following:~~]

2200 [~~"1. For a nail salon where a nail technician files or shapes an acrylic nail, as defined~~
2201 ~~by rule by the Division of Occupational and Professional Licensing, in accordance with Title~~
2202 ~~63G, Chapter 3, Utah Administrative Rulemaking Act, each nail station where a nail technician~~
2203 ~~files or shapes an acrylic nail shall be provided with:]~~

2204 [~~a. a source capture system capable of filtering and recirculating air to inside space not~~
2205 ~~less than 50 cfm per station; or]~~

2206 [~~b. a source capture system capable of exhausting not less than 50 cfm per station."~~]

2207 [~~2. Except as provided in paragraph 3, the requirements described in paragraph 1 apply~~
2208 ~~beginning on July 1, 2020.]~~

2209 [~~3. The requirements described in paragraph 1 apply beginning on July 1, 2014 if the~~
2210 ~~nail salon is under or begins new construction or remodeling on or after July 1, 2014.]~~

2211 [~~(5) In IMC, Section 403, a new Section 403.8 is added as follows: "Retrospective~~
2212 ~~effect. Removal, alteration, or abandonment shall not be required, and continued use and~~
2213 ~~maintenance shall be allowed, for a ventilation system within an existing installation that~~
2214 ~~complies with the requirements of this Section 403 regardless of whether the ventilation system~~
2215 ~~satisfied the minimum ventilation rate requirements of prior law."~~]

2216 [~~(6) In IMC, Table 603.4, in the section "Round ducts and enclosed rectangular ducts",~~
2217 ~~the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced with~~
2218 ~~"over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size, "0.013"~~
2219 ~~under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under aluminum~~
2220 ~~minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is deleted.]~~

2221 [~~(7)~~ (1) In IMC, Section 1004.2, the first sentence is deleted and replaced with the
2222 following: "[Boilers] In accordance with Title 34A, Chapter 7, Safety, and requirements made
2223 by rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the
2224 Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except those
2225 located in private residences or in apartment houses of less than five family units. Boilers shall
2226 be installed in accordance with their listing and labeling, with minimum clearances as
2227 prescribed by the manufacturer's installation instructions and the state boiler code, whichever is
2228 greater."

2229 [(8)] (2) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word
2230 "boilers".

2231 [(9)] (3) IMC, Section 1101.10, is deleted.

2232 (4) In IMC, Section 1209.3, the following words are added at the end of the section:

2233 "or other methods approved for the application."

2234 Section 33. Section **15A-3-501** is amended to read:

2235 **15A-3-501. General provisions.**

2236 The following are adopted as an amendment to the IFGC to be applicable statewide:

2237 (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter
2238 protection. Fuel gas services shall be in an approved location and/or provided with structures
2239 designed to protect the fuel gas meter and surrounding piping from physical damage, including
2240 falling, moving, or migrating ice and snow. If an added structure is used, it must still provide
2241 access for service and comply with the IBC or the IRC."

2242 (2) IFGC, Section 409.5.3, is deleted.

2243 (3) In IFGC, Section 631.2, the following sentence is inserted before the first sentence:

2244 "~~[Boilers]~~ In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by
2245 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor
2246 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in
2247 private residences or in apartment houses of less than five family units. Boilers shall be
2248 installed in accordance with their listing and labeling, with minimum clearances as prescribed
2249 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

2250 Section 34. Section **15A-3-601** is amended to read:

2251 **15A-3-601. General provision.**

2252 The following are adopted as amendments to the NEC to be applicable statewide:

2253 (1) The IRC provisions are adopted as the residential electrical standards applicable to
2254 installations applicable under the IRC. All other installations shall comply with the adopted
2255 NEC.

2256 [~~(2) In NEC, Section 310.15(B)(7), the second sentence is deleted and replaced with~~
2257 ~~the following: "For application of this section, the main power feeder shall be the feeder(s)~~
2258 ~~between the main disconnect and the panelboard(s)."~~]

2259 (2) NEC, Section 240.87(B), is modified to add the following as an additional

2260 approved equivalent means:

2261 "6. An instantaneous trip function set at or below the available fault current."

2262 Section 35. Section **15A-3-701** is amended to read:

2263 **15A-3-701. General provisions.**

2264 The following is adopted as an amendment to the IECC to be applicable statewide:

2265 ~~[(1) In IECC, Section C202, the definition for "CONDITIONED SPACE" is deleted~~
2266 ~~and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed~~
2267 ~~within the building thermal envelope that is directly heated or cooled, or indirectly heated or~~
2268 ~~cooled by any of the following means:]~~

2269 ~~[1. Openings directly into an adjacent conditioned space:]~~

2270 ~~[2. An un-insulated floor, ceiling or wall adjacent to a conditioned space:]~~

2271 ~~[3. Un-insulated duct, piping or other heat or cooling source within the space."]~~

2272 ~~[(2) In IECC, Section C404.4, a new exception is added as follows: "Exception: Heat~~
2273 ~~traps, other than the arrangement of piping and fittings, shall be prohibited unless a means of~~
2274 ~~controlling thermal expansion can be ensured as required in the IPC Section 607.3."]~~

2275 (1) In IECC, Section C403.2.9.1.3, the words "by the designer" are deleted.

2276 ~~[(3)]~~ (2) In IECC, Section R103.2, all words after the words "herein governed." are
2277 deleted and replaced with the following: "Construction documents include all documentation
2278 required to be submitted in order to issue a building permit."

2279 ~~[(4) In IECC, Section R202, the definition for "CONDITIONED SPACE" is deleted~~
2280 ~~and replaced with the following: "CONDITIONED SPACE. An area, room or space enclosed~~
2281 ~~within the building thermal envelope that is directly heated or cooled, or indirectly heated or~~
2282 ~~cooled by any of the following means:]~~

2283 ~~[1. Openings directly into an adjacent conditioned space:]~~

2284 ~~[2. An un-insulated floor, ceiling or wall adjacent to a conditioned space:]~~

2285 ~~[3. Un-insulated duct, piping or other heat or cooling source within the space."]~~

2286 ~~[(5)]~~ (3) In IECC, Section R303.3, all wording after the first sentence is deleted.

2287 (4) In IECC, Section R401.2, a new number 4 is added as follows:

2288 "4. Compliance may be shown by demonstrating a result, using the software
2289 RESCheck 2012 Utah Energy Conservation Code, of:

2290 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than

2291 code";
 2292 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than
 2293 code"; and
 2294 (c) after January 1, 2021, "5 percent better than code.""

2295 [(6) (5) In IECC, Table [R402.1.1 and Table R402.1.3, the rows for "climate zone 3",
 2296 "climate zone 5 and Marine 4, and climate zone 6" are deleted and replaced and] R402.2, in the
 2297 column entitled MASS WALL R-VALUE, a new footnote j is added as follows:

2298 [

2299 "TABLE R402.1.1

2300 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^g

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b,m}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^{n,r}	FLOOR R-VALUE	BASEMENT ^e WALL R-VALUE	SLAB ^g R-VALUE & DEPTH	CRAWL SPACE ^g 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 ^r	13	30 ^r	10/13	10, 2 ft	10/13
6	0.35	0.60	NR	49	19 or 13 + 5 ^r	15	30 ^r	10/13	10, 4 ft	10/13

2305 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.

2306 TABLE R402.1.3 EQUIVALENT U-FACTORS^g

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT ^b U-FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
3	0.65	0.65	0.035	0.082	0.141	0.047	0.360	0.136
5 and Marine 4	0.35	0.60	0.030	0.060	0.082	0.033	0.059	0.065
6	0.35	0.60	0.026	0.060	0.060	0.033	0.059	0.065

2311]"j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches
 2312 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31
 2313 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil, 84
 2314 AFUE, and all other component requirements are met."

2315 [(7) In IECC, Section R402.2.1, the last sentence is deleted.]

2316 [~~(8) In IECC, Section R402.2.2, the last sentence is deleted.~~]

2317 [~~(9) In IECC, Section R402.3.3, the last sentence is deleted.~~]

2318 [~~(10) In IECC, Section R402.3.4, the last sentence is deleted.~~]

2319 [~~(11)~~] (6) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted
2320 and replaced with the word "or".

2321 [~~(12)~~] (7) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with
2322 the following: "Where allowed by the [~~building~~] code official, the builder may certify
2323 compliance to components criteria for items which may not be inspected during regularly
2324 scheduled inspections."

2325 [~~(13)~~] (8) In IECC, Section R402.4.1.2, the following changes are made:

2326 (a) In the first sentence:

2327 (i) on or after January 1, 2019, and before January 1, 2021, replace the word "five"
2328 with "3.5"; and

2329 (ii) after January 1, 2021, replace the word "five with "three."

2330 [~~(a)~~] (b) In the first sentence, the words "in Climate Zones 1 and 2, and [~~3~~] three air
2331 changes per hour in [~~Zone~~] Climate Zones 3 through 8" are deleted.

2332 [~~(b)~~] (c) In the third sentence, the [~~words "Where required by the building official," and~~
2333 ~~the~~] word "third" [~~are~~] is deleted.

2334 [~~(c)~~] (d) The following sentence is inserted after the third sentence: "The following
2335 parties shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed
2336 contractors who have completed training provided by Blower Door Test equipment
2337 manufacturers or other comparable training."

2338 [~~(14) In IECC, Section R402.4.4, the last sentence is deleted.~~]

2339 [~~(15) In IECC, Section R403.2.2, the requirements for duct tightness testing are deleted~~
2340 ~~and replaced with the following:~~]

2341 [~~"1. Postconstruction test: Total leakage shall be less than or equal to 10 cfm (283~~
2342 ~~L/min) per 100 square feet (9.29 m²) of conditioned floor space when tested at a pressure~~
2343 ~~differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air~~
2344 ~~handler enclosure. All register boots shall be taped or otherwise sealed during the test.]~~

2345 [~~2. Rough-in test: Total leakage shall be less than or equal to 10 cfm (283 L/min) per~~
2346 ~~100 square feet (9.29 m²) of conditioned floor area when tested at a pressure differential of at~~

2347 least 0.1 inches w.g. (25 Pa) across the system, including the manufacturer's air handler
 2348 enclosure. All registers shall be taped or otherwise sealed during the test. If the air handler is
 2349 not installed at the time of the test, total leakage shall be less than or equal to 7.5 cfm (212
 2350 L/min) per 100 square feet (9.29 m²) of conditioned floor area."]

2351 ~~[(16)]~~ (9) In IECC, Section ~~[R403.2.2;]~~ R403.3.3:

2352 (a) the exception for [total] duct air leakage testing is deleted; and

2353 (b) the exception for duct air leakage is replaced;

2354 (i) on or after January 1, 2017, and before January 1, 2019, with the following:

2355 "Exception: The total leakage test is not required for systems with all air handlers and at least
 2356 ~~[50%]~~ 65% of all ducts (measured by length) located entirely within the building thermal
 2357 envelope.";

2358 (ii) on or after January 1, 2019, and before January 1, 2021, with the following:

2359 "Exception: The duct air leakage test is not required for systems with all air handlers and at
 2360 least 75% of all ducts (measured by length) located entirely within the building thermal
 2361 envelope."; and

2362 (iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage
 2363 test is not required for systems with all air handlers and at least 80% of all ducts (measured by
 2364 length) located entirely within the building thermal envelope."

2365 (10) In IECC, Section R403.3.3, the following is added after the exception:

2366 "The following parties shall be approved to conduct testing:

2367 1. Parties certified by BPI or RESNET.

2368 2. Licensed contractors who have completed training provided by Duct Test equipment
 2369 manufacturers or other comparable training."

2370 (11) In IECC, Section R403.3.4:

2371 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,
 2372 the number 3 is changed to 6, and the number 85 is changed to 114.6; and

2373 (b) in Subsection 2:

2374 (i) on or after January 1, ~~§→ [2019]~~ 2017 ~~←§~~ , and before January 1, ~~§→ [2021]~~ 2019 ~~←§~~

2374a , the number 4 is changed to

2375 8 and the number 113.3 is changed to 226.5;

2376 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to

2377 7 and the number 113.3 is changed to ~~§→ [226.5]~~ 198.2 ~~←§~~ ; and

2378 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is
 2379 changed to $\hat{S} \rightarrow [226.5] 169.9 \leftarrow \hat{S}$.

2380 [~~(17)~~ (12) In IECC, Section [~~R403.2.3~~] R403.3.5, the words "or plenums" are deleted.

2381 [~~(18) In IECC, Section R403.4.2, the sentences for "3." and "9." and the last sentence~~
 2382 ~~are deleted.~~]

2383 [~~(19) In IECC, Section R403.5, the first sentence is deleted.~~]

2384 [~~(20) IECC, Section R404.1 and the exception are deleted, and R404.1.1 becomes~~
 2385 ~~R404.1.~~]

2386 [~~(21) In IECC, Table R405.5.2(1), the following changes are made under the column~~
 2387 ~~STANDARD REFERENCE DESIGN:~~]

2388 [~~(a) In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per~~
 2389 ~~hour in Zones 3 through 8" are deleted.~~]

2390 [~~(b) In the row "Heating systems^{f, g}", the standard reference design is deleted and~~
 2391 ~~replaced with the following:~~]

2392 [~~"Fuel Type: same as proposed design]~~

2393 [~~Efficiencies:~~]

2394 [~~Electric: air source heat pump with prevailing federal minimum efficiencies]~~

2395 [~~Nonelectric furnaces: natural gas furnace with prevailing federal minimum~~
 2396 ~~efficiencies]~~

2397 [~~Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies]~~

2398 [~~Capacity: sized in accordance with Section N1103.6"~~]

2399 [~~(c) In the row "Cooling systems^{f, h, i}" the words "As proposed" are deleted and replaced~~
 2400 ~~with the following:~~]

2401 [~~"Fuel Type: Electric]~~

2402 [~~Efficiency: in accordance with prevailing federal minimum standards"~~]

2403 [~~(d) In the row "Service water heating^{f, g, h, i}", the words "As proposed" are deleted and~~
 2404 ~~replaced with the following:~~]

2405 [~~"Fuel Type: same as proposed design]~~

2406 [~~Efficiency: in accordance with prevailing federal minimum standards]~~

2407 [~~Tank Temperature: 120° F"~~]

2408 [~~(e) In the row "Thermal distribution systems" the word "none" is deleted and replaced~~

2409 with the following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to
 2410 both the heating and cooling system efficiencies."

2411 [(22) In IECC, Table R405.5.2(2), the number "0.80" is inserted under "Forced air
 2412 systems" for "Distribution system components located in unconditioned space".]

2413 [(23) The RESCheck Software adopted by the United States Department of Energy and
 2414 modified to meet the requirements of this section shall be used to verify compliance with this
 2415 section. The software shall address the Total UA alternative approach and account for
 2416 Equipment Efficiency Trade-offs when applicable per the standard reference design as
 2417 amended.]

2418 (13) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are
 2419 renumbered.

2420 ~~§ → [(14) In IECC, Section R406.2, the last sentence and exception are deleted.~~

2421 ~~— [(15) (14) ← § In IECC, Section R406.4, the table is deleted and replaced with the following:~~

2422 TABLE R406.4

2423 MAXIMUM ENERGY RATING INDEX

<u>2424CLIMATE ZONE</u>	<u>ENERGY RATING INDEX</u>
<u>24253</u>	<u>65</u>
<u>24265</u>	<u>69</u>
<u>24276</u>	<u>68</u>

2428 Section 36. Section **15A-3-801** is amended to read:

2429 **Part 8. Statewide Amendments to International Existing Building Code**

2430 **15A-3-801. General provisions.**

2431 [Mobile homes built before June 15, 1976 that are subject to relocation, building
 2432 alteration, remodeling, or rehabilitation shall comply with the following:]

2433 [(1) Related to exits and egress windows:]

2434 [(a) Egress windows. The home has at least one egress window in each bedroom, or a
 2435 window that meets the minimum specifications of the U.S. Department of Housing and Urban
 2436 Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS)
 2437 program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and 3280.404 for

2438 ~~manufactured homes. These standards require the window to be at least 22 inches in the~~
2439 ~~horizontal or vertical position in its least dimension and at least five square feet in area. The~~
2440 ~~bottom of the window opening shall be no more than 36 inches above the floor, and the locks~~
2441 ~~and latches and any window screen or storm window devices that need to be operated to permit~~
2442 ~~exiting shall not be located more than 54 inches above the finished floor.]~~

2443 ~~[(b) Exits. The home is required to have two exterior exit doors, located remotely from~~
2444 ~~each other, as required in MHCSS 3280.105. This standard requires that single-section homes~~
2445 ~~have the doors no less than 12 feet, center-to-center, from each other, and multisection home~~
2446 ~~doors no less than 20 feet center-to-center from each other when measured in a straight line,~~
2447 ~~regardless of the length of the path of travel between the doors. One of the required exit doors~~
2448 ~~must be accessible from the doorway of each bedroom and no more than 35 feet away from any~~
2449 ~~bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high clear~~
2450 ~~opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each~~
2451 ~~exterior door other than screen/storm doors shall have a key-operated lock that has a passage~~
2452 ~~latch; locks shall not require the use of a key or special tool for operation from the inside of the~~
2453 ~~home.]~~

2454 ~~[(2) Related to flame spread:]~~

2455 ~~[(a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or~~
2456 ~~water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants~~
2457 ~~and other trim materials two inches or less in width used to finish adjacent surfaces within~~
2458 ~~these spaces are exempt from this provision, provided all joints are supported by framing~~
2459 ~~members or materials with a flame spread rating of 25 or less. Combustible doors providing~~
2460 ~~interior or exterior access to furnace and water heater spaces shall be covered with materials of~~
2461 ~~limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be~~
2462 ~~interrupted for louvers ventilating the space. However, the louvers shall not be of materials of~~
2463 ~~greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference~~
2464 ~~MHCSS 3280.203.]~~

2465 ~~[(b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range~~
2466 ~~(surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or~~
2467 ~~both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.~~
2468 ~~Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical~~

2469 clearance above the cooking top of not less than 24 inches to the bottom of combustible
2470 cabinets, as required by MHCSS 3280.204(e).]

2471 [~~(3) Related to smoke detectors:~~]

2472 [~~(a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway
2473 or space communicating with each bedroom area between the living area and the first bedroom
2474 door, unless a door separates the living area from that bedroom area, in which case the detector
2475 shall be installed on the living-area side, as close to the door as practicable, as required by
2476 MHCSS 3280.208. Homes with bedroom areas separated by anyone or combination of
2477 common-use areas such as a kitchen, dining room, living room, or family room (but not a
2478 bathroom or utility room) shall be required to have one detector for each bedroom area. When
2479 located in the hallways, the detector shall be between the return air intake and the living areas.]~~

2480 [~~(b) Switches and electrical connections. Smoke detectors shall have no switches in
2481 the circuit to the detector between the over-current protection device protecting the branch
2482 circuit and the detector. The detector shall be attached to an electrical outlet box and connected
2483 by a permanent wiring method to a general electrical circuit. The detector shall not be placed
2484 on the same branch circuit or any circuit protected by a ground-fault circuit interrupter.]~~

2485 [~~(4) Related to solid-fuel-burning stoves/fireplaces:~~]

2486 [~~(a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning,
2487 factory-built fireplaces, and fireplace stoves may be used in manufactured homes, provided that
2488 they are listed for use in manufactured homes and installed according to their
2489 listing/manufacturer's instructions and the minimum requirements of MHCSS 3280.709(g).]~~

2490 [~~(b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped
2491 with an integral door or shutters designed to close the fire chamber opening and shall include
2492 complete means for venting through the roof, a combustion air inlet, a hearth extension, and
2493 means to securely attach the unit to the manufactured home structure.]~~

2494 [~~(i) Chimney. A listed, factory-built chimney designed to be attached directly to the
2495 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device
2496 and spark arrester, shall be required. The chimney shall extend at least three feet above the part
2497 of the roof through which it passes and at least two feet above the highest elevation of any part
2498 of the manufactured home that is within 10 feet of the chimney.]~~

2499 [~~(ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be~~

2500 installed in accordance with the terms of listings and the manufacturer's instruction. A
2501 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to
2502 prevent material from the hearth from dropping on the area beneath the manufactured home.]

2503 [(iii) ~~Hearth.~~ The hearth extension shall be of noncombustible material that is a
2504 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches
2505 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the
2506 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.]

2507 [(5) ~~Related to electrical wiring systems:~~]

2508 [(a) ~~Testing.~~ All electrical systems shall be tested for continuity in accordance with
2509 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to
2510 demonstrate that all equipment is connected and in working order; and given a polarity check,
2511 to determine that connections are proper.]

2512 [(b) ~~5.2 Protection.~~ The electrical system shall be properly protected for the required
2513 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches
2514 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be
2515 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the
2516 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum
2517 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.]

2518 [(6) ~~Related to replacement furnaces and water heaters:~~]

2519 [(a) ~~Listing.~~ Replacement furnaces or water heaters shall be listed for use in a
2520 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be
2521 listed for use with the furnace or water heater.]

2522 [(b) ~~Securement and accessibility.~~ The furnace and water heater shall be secured in
2523 place to avoid displacement. Every furnace and water heater shall be accessible for servicing,
2524 for replacement, or both as required by MHCSS 3280.709(a).]

2525 [(c) ~~Installation.~~ Furnaces and water heaters shall be installed to provide complete
2526 separation of the combustion system from the interior atmosphere of the manufactured home,
2527 as required by MHCSS.]

2528 [(i) ~~Separation.~~ The required separation may be achieved by the installation of a
2529 direct-vent system (sealed combustion system) furnace or water heater or the installation of a
2530 furnace and water heater venting and combustion systems from the interior atmosphere of the

2531 ~~home. There shall be no doors, grills, removable access panels, or other openings into the~~
2532 ~~enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,~~
2533 ~~etc., shall be sealed.]~~

2534 ~~[(ii) Water heater. The floor area in the area of the water heater shall be free from~~
2535 ~~damage from moisture to ensure that the floor will support the weight of the water heater.]~~

2536 The following are adopted as amendments to the IEBC and are applicable statewide:

2537 (1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See
2538 Code Official."

2539 (2) In Section 202, the definition for "code official" is deleted and replaced with the
2540 following:

2541 "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)
2542 charged with the administration and enforcement of this code."

2543 (3) In Section 202, the definition for existing buildings is deleted and replaced with the
2544 following:

2545 "EXISTING BUILDING. A building that is not a dangerous building and that was either
2546 lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the
2547 code official."

2548 (4) In Section 301.1, the exception is deleted.

2549 (5) Section 403.5 is deleted and replaced with the following:

2550 "403.5 Bracing for unreinforced masonry parapets and other appendages upon reroofing.
2551 Where the intended alteration requires a permit for reroofing and involves removal of roofing
2552 materials from more than 25 percent of the roof area of a building assigned to Seismic Design
2553 Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such
2554 as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of
2555 bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of
2556 such items. For purposes of this section, design seismic forces need not be taken greater than
2557 75 percent of those that would be required for the design of similar nonstructural components
2558 in new buildings of similar purpose and location."

2559 (6) In Section 705.1, Exception number 3, the following is added at the end of the
2560 exception:

2561 "This exception does not apply if the existing facility is undergoing a change of occupancy

2562 classification."

2563 (7) Section 707.3.1 is deleted and replaced with the following:

2564 "707.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.

2565 Where a permit is issued for reroofing more than 25 percent of the roof area of a building

2566 assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced

2567 masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work

2568 shall include installation of bracing to resist the reduced International Building Code level

2569 seismic forces as specified in Section 301.1.4.2 of this code unless an evaluation demonstrates

2570 compliance of such items."

2571 (8) (a) Section 1007.3.1 is deleted and replaced with the following:

2572 "1007.3.1 Compliance with the International Building Code Level Seismic Forces.

2573 When a building or portion thereof is subject to a change of occupancy such that a change in

2574 the nature of the occupancy results in a higher risk category based on Table 1604.5 of the

2575 International Building Code or when such change of occupancy results in a design occupant

2576 load increase of 100% or more, the building shall conform to the seismic requirements of the

2577 International Building Code for the new risk category."

2578 (b) Section 1007.3.1, exceptions 1- 3 remain unchanged.

2579 (c) In Section 1007.3.1, add a new exception 4 as follows:

2580 "4. Where the design occupant load increase is less than 25 occupants and the occupancy

2581 category does not change."

2582 (9) In Section 1012.7.3, exception 2 is deleted.

2583 (10) In Section 1012.8.2, number 7 is added as follows:

2584 "7. When a change of occupancy in a building or portion of a building results in a Group R-2

2585 occupancy, not less than 20 percent of the dwelling or sleeping units shall be Type B dwelling

2586 or sleeping units. These dwelling or sleeping units may be located on any floor of the building

2587 provided with an accessible route. Two percent, but not less than one unit, of the dwelling or

2588 sleeping units shall be Type A dwelling units."

2589 Section 37. Section **15A-3-901** is enacted to read:

2590 **Part 9. Installation and Safety Requirements for Mobile Homes**

2591 **Built Before June 15, 1976**

2592 **15A-3-901. General provisions.**

2593 Mobile homes built before June 15, 1976, that are subject to relocation, building
2594 alteration, remodeling, or rehabilitation shall comply with the following:

2595 (1) Related to exits and egress windows:

2596 (a) Egress windows. The home has at least one egress window in each bedroom, or a
2597 window that meets the minimum specifications of the United States Department of Housing
2598 and Urban Development's (HUD) Manufactured Homes Construction and Safety Standards
2599 (MHCSS) program as set forth in 24 C.F.R. Parts 3280 and 3282, MHCSS 3280.106 and
2600 3280.404 for manufactured homes. These standards require the window to be at least 22
2601 inches in the horizontal or vertical position in its least dimension and at least five square feet in
2602 area. The bottom of the window opening shall be no more than 36 inches above the floor, and
2603 the locks and latches and any window screen or storm window devices that need to be operated
2604 to permit exiting shall not be located more than 54 inches above the finished floor.

2605 (b) Exits. The home is required to have two exterior exit doors, located remotely from
2606 each other, as required in MHCSS 3280.105. This standard requires that a single-section home
2607 have the doors no less than 12 feet, center-to-center, from each other, and a multisection home
2608 have the doors no less than 20 feet, center-to-center, from each other, when measured in a
2609 straight line, regardless of the length of the path of travel between the doors. One of the
2610 required exit doors must be accessible from the doorway of each bedroom and no more than 35
2611 feet away from any bedroom doorway. An exterior swing door shall have a 28-inch-wide by
2612 74-inch-high clear opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high
2613 clear opening. Each exterior door other than screen/storm doors shall have a key-operated lock
2614 that has a passage latch; locks shall not require the use of a key or special tool for operation
2615 from the inside of the home.

2616 (2) Related to flame spread:

2617 (a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or
2618 water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants
2619 and other trim materials two inches or less in width used to finish adjacent surfaces within
2620 these spaces are exempt from this provision, provided all joints are supported by framing
2621 members or materials with a flame spread rating of 25 or less. Combustible doors providing
2622 interior or exterior access to furnace and water heater spaces shall be covered with materials of
2623 limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be

2624 interrupted for louvers ventilating the space. However, the louvers shall not be of materials of
2625 greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference
2626 MHCSS 3280.203.

2627 (b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range
2628 (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or
2629 both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.
2630 Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical
2631 clearance above the cooking top of not less than 24 inches to the bottom of combustible
2632 cabinets, as required by MHCSS 3280.204(e).

2633 (3) Related to smoke detectors:

2634 (a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway
2635 or space communicating with each bedroom area between the living area and the first bedroom
2636 door, unless a door separates the living area from that bedroom area, in which case the detector
2637 shall be installed on the living-area side, as close to the door as practicable, as required by
2638 MHCSS 3280.208. Homes with bedroom areas separated by any one or combination of
2639 common-use areas such as a kitchen, dining room, living room, or family room (but not a
2640 bathroom or utility room) shall be required to have one detector for each bedroom area. When
2641 located in the hallways, the detector shall be between the return air intake and the living areas.

2642 (b) Switches and electrical connections. Smoke detectors shall have no switches in the
2643 circuit to the detector between the over-current protection device protecting the branch circuit
2644 and the detector. The detector shall be attached to an electrical outlet box and connected by a
2645 permanent wiring method to a general electrical circuit. The detector shall not be placed on the
2646 same branch circuit or any circuit protected by a ground-fault circuit interrupter.

2647 (4) Related to solid-fuel-burning stoves/fireplaces:

2648 (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built
2649 fireplaces and fireplace stoves may be used in manufactured homes, provided that they are
2650 listed for use in manufactured homes and installed according to their listing/manufacture's
2651 instructions and the minimum requirements of MHCSS 3280.709(g).

2652 (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with
2653 an integral door or shutters designed to close the fire chamber opening and shall include
2654 complete means for venting through the roof, a combustion air inlet, a hearth extension, and

2655 means to securely attach the unit to the manufactured home structure.

2656 (i) Chimney. A listed, factory-built chimney designed to be attached directly to the
2657 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device
2658 and spark arrester shall be required. The chimney shall extend at least three feet above the part
2659 of the roof through which it passes and at least two feet above the highest elevation of any part
2660 of the manufactured home that is within 10 feet of the chimney.

2661 (ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be
2662 installed in accordance with the terms of listings and the manufacturer's instruction. A
2663 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to
2664 prevent material from the hearth from dropping on the area beneath the manufactured home.

2665 (iii) Hearth. The hearth extension shall be of noncombustible material that is a
2666 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches
2667 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the
2668 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.

2669 (5) Related to electrical wiring systems:

2670 (a) Testing. All electrical systems shall be tested for continuity, in accordance with
2671 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to
2672 demonstrate that all equipment is connected and in working order; and given a polarity check,
2673 to determine that connections are proper.

2674 (b) 5.2 Protection. The electrical system shall be properly protected for the required
2675 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches
2676 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be
2677 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the
2678 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum
2679 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.

2680 (6) Related to replacement furnaces and water heaters:

2681 (a) Listing. Replacement furnaces or water heaters shall be listed for use in a
2682 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be
2683 listed for use with the furnace or water heater.

2684 (b) Securement and accessibility. The furnace and water heater shall be secured in
2685 place to avoid displacement. Every furnace and water heater shall be accessible for servicing.

2686 for replacement, or both as required by MHCSS 3280.709(a).

2687 (c) Installation. Furnaces and water heaters shall be installed to provide complete
2688 separation of the combustion system from the interior atmosphere of the manufactured home,
2689 as required by MHCSS.

2690 (i) Separation. The required separation may be achieved by the installation of a
2691 direct-vent system (sealed combustion system) furnace or water heater or the installation of
2692 furnace and water heater venting and combustion systems from the interior atmosphere of the
2693 home. There shall be no doors, grills, removable access panels, or other openings into the
2694 enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,
2695 etc., shall be sealed.

2696 (ii) Water heater. The floor area in the area of the water heater shall be free from
2697 damage from moisture to ensure that the floor will support the weight of the water heater.

2698 Section 38. Section **15A-4-103** is amended to read:

2699 **15A-4-103. Amendments to IBC applicable to City of Farmington.**

2700 The following amendments are adopted as amendments to the IBC for the City of
2701 Farmington:

2702 [~~(1) A new IBC, Section (F) 903.2.13, is added as follows: "(F) 903.2.13 Group R,~~
2703 ~~Division 3 Occupancies. An automatic sprinkler system shall be installed throughout every~~
2704 ~~dwelling in accordance with NFPA 13D, when any of the following conditions are present:]~~

2705 [~~1. The structure is over two stories high, as defined by the building code;]~~

2706 [~~2. The nearest point of structure is more than 150 feet from the public way;]~~

2707 [~~3. The total floor area of all stories is over 5,000 square feet (excluding from the calculation~~
2708 ~~the area of the basement and/or garage); or]~~

2709 [~~4. The structure is located on a street constructed after March 1, 2000, that has a gradient over~~
2710 ~~12% and, during fire department response, access to the structure will be gained by using such~~
2711 ~~street. (If the access is intended to be from a direction where the steep gradient is not used, as~~
2712 ~~determined by the Chief, this criteria shall not apply).]~~

2713 [~~Such sprinkler system shall be installed in basements, but need not be installed in garages,~~
2714 ~~under eaves or in enclosed attic spaces, unless required by the Chief."]~~

2715 [~~(2)~~] (1) A new IBC, Section 907.9, is added as follows: "907.9 Alarm Circuit
2716 Supervision. Alarm circuits in alarm systems provided for commercial uses (defined as other

2717 than one- and two-family dwellings and townhouses) shall have Class "A" type of supervision.
2718 Specifically, Type "B" or End-of-line resistor and horn supervised systems are not allowed."

2719 [~~(3)~~] (2) In NFPA Section 13-07, new sections are added as follows: "6.8.6 FDC
2720 Security Locks Required. All Fire Department connections installed for fire sprinkler and
2721 standpipe systems shall have approved security locks.

2722 6.10 Fire Pump Disconnect Signs. When installing a fire pump, red plastic laminate signs shall
2723 be installed in the electrical service panel, if the pump is wired separately from the main
2724 disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES
2725 NOT Shut Off Fire Pump".

2726 22.1.6 Plan Preparation Identification. All plans for fire sprinkler systems, except for
2727 manufacturer's cut sheets of equipment shall include the full name of the person who prepared
2728 the drawings. When the drawings are prepared by a registered professional engineer, the
2729 engineer's signature shall also be included.

2730 22.2.2.3 Verification of Water Supply:

2731 22.2.2.3.1 Fire Flow Tests. Fire flow tests for verification of water supply shall be conducted
2732 and witnessed for all applications other than residential unless directed otherwise by the Chief.
2733 For residential water supply, verification shall be determined by administrative procedure.

2734 22.2.2.3.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include
2735 an accurate and verifiable water supply.

2736 24.2.3.7 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall
2737 include, but are not limited to:

2738 Commercial:

2739 FLUSH-Witness Underground Supply Flush;

2740 ROUGH Inspection-Installation of Riser, System Piping, Head Locations and all Components,
2741 Hydrostatic Pressure Test;

2742 FINAL Inspection-Head Installation and Escutcheons, Inspectors Test Location and Flow,
2743 Main Drain Flow, FDC Location and Escutcheon, Alarm Function, Spare Parts, Labeling of
2744 Components and Signage, System Completeness, Water Supply Pressure Verification,
2745 Evaluation of Any Unusual Parameter."

2746 Section 39. Section 15A-4-107 is amended to read:

2747 **15A-4-107. Amendments to IBC applicable to Sandy City.**

2748 The following amendments are adopted as amendments to the IBC for Sandy City:

2749 (1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic
2750 sprinkler system shall be installed in accordance with NFPA 13 throughout buildings
2751 containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table
2752 B105.1 of the [2009] 2015 International Fire Code. Exempt locations as indicated in Section
2753 903.3.1.1.1 are allowed.

2754 Exception: Automatic fire sprinklers are not required in buildings used solely for worship,
2755 Group R Division 3, Group U occupancies and buildings complying with the International
2756 Residential Code unless otherwise required by the International Fire Code.

2757 (2) A new IBC, Appendix L, is added and adopted as follows: "Appendix L
2758 BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS
2759 WILDLAND-URBAN INTERFACE AREAS

2760 AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban
2761 Interface Areas by Sandy City shall be constructed using ignition resistant construction as
2762 determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban
2763 Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to
2764 determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International
2765 Wildland-Urban Interface Code, as modified herein, shall be used to determine the
2766 requirements for Ignition Resistant Construction.

2767 (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new
2768 Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7
2769 shall only be required on the exposure side of the structure, as determined by the Fire Marshal,
2770 where defensible space is less than 50 feet as defined in Section 603 of the 2006 International
2771 Wildland-Urban Interface Code.

2772 (ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION
2773 Subsections 505.5 and 505.7 are deleted."

2774 Section 40. Section 15A-4-203 is amended to read:

2775 **15A-4-203. Amendments to IRC applicable to City of Farmington.**

2776 The following amendments are adopted as amendments to the IRC for the City of
2777 Farmington:

2778 [~~1) In IRC, R324 Automatic Sprinkler Systems, new IRC, Sections R324.1 and~~

2779 R324.2 are added as follows: "~~R324.1~~ When required. An automatic sprinkler system shall be
 2780 installed throughout every dwelling in accordance with NFPA 13D, when any of the following
 2781 conditions are present:]

2782 [~~1. the structure is over two stories high, as defined by the building code;]~~

2783 [~~2. the nearest point of structure is more than 150 feet from the public way;]~~

2784 [~~3. the total floor area of all stories is over 5,000 square feet (excluding from the calculation
 2785 the area of the basement and/or garage); or]~~

2786 [~~4. the structure is located on a street constructed after March 1, 2000 that has a gradient over
 2787 12% and, during fire department response, access to the structure will be gained by using such
 2788 street. (If the access is intended to be from a direction where the steep gradient is not used, as
 2789 determined by the Chief, this criteria shall not apply).]~~

2790 [~~R324.2~~ Installation requirements and standards. Such sprinkler system shall be installed in
 2791 basements, but need not be installed in garages, under eaves or in enclosed attic spaces, unless
 2792 required by the Chief. Such system shall be installed in accordance with NFPA 13D."]

2793 [(2)] (1) In IRC, Chapter 44, the following NFPA referenced standards are added as
 2794 follows:

		"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"

2799 [(3)] (2) In NFPA, Section 13D-07, new sections are added as follows: "1.15 Reference
 2800 to NFPA 13D. All references to NFPA 13D in the codes, ordinances, rules, or regulations
 2801 governing NFPA 13D systems shall be read to refer to "modified NFPA 13D" to reference the
 2802 NFPA 13D as amended by additional regulations adopted by Farmington City.

2803 4.9 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall
 2804 include, but are not limited to:

2805 Residential:

2806 ROUGH Inspection-Verify Water Supply Piping Size and Materials, Installation of Riser,
2807 System Piping, Head Locations and all Components, Hydrostatic Pressure Test.
2808 FINAL Inspection-Inspectors Test Flow, System Completeness, Spare Parts, Labeling of
2809 Components and Signage, Alarm Function, Water Supply Pressure Verification.
2810 5.2.2.3 Exposed Piping of Metal. Exposed Sprinkler Piping material in rooms of dwellings
2811 shall be of Metal.
2812 EXCEPTIONS:
2813 a. CPVC Piping is allowed in unfinished mechanical and storage rooms only when specifically
2814 listed for the application as installed.
2815 b. CPVC Piping is allowed in finished, occupied rooms used for sports courts or similar uses
2816 only when the ceiling/floor framing above is constructed entirely of non-combustible materials,
2817 such as a concrete garage floor on metal decking.
2818 5.2.2.4 Water Supply Piping Material. Water Supply Piping from where the water line enters
2819 the dwelling adjacent to and inside the foundation to the fire sprinkler contractor
2820 point-of-connection shall be metal, suitable for potable plumbing systems. See Section 7.1.4
2821 for valve prohibition in such piping. Piping down stream from the point-of-connection used in
2822 the fire sprinkler system, including the riser, shall conform to NFPA 13D standards.
2823 5.4 Fire Pump Disconnect Signs. When installing a Fire Pump, Red Plastic Laminate Signs
2824 shall be installed in the electrical service panel, if the pump is wired separately from the main
2825 disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES
2826 NOT Shut Off Fire Pump".
2827 7.1.4 Valve Prohibition. NFPA 13D, Section 7.1 is hereby modified such that NO VALVE is
2828 permitted from the City Water Meter to the Fire Sprinkler Riser Control.
2829 7.6.1 Mandatory Exterior Alarm. Every dwelling that has a fire sprinkler system shall have an
2830 exterior alarm, installed in an approved location. The alarm shall be of the combination
2831 horn/strobe or electric bell/strobe type, approved for outdoor use.
2832 8.1.05 Plan Preparation Identification. All plans for fire sprinkler systems, except for
2833 manufacturer's cut sheets of equipment, shall include the full name of the person who prepared
2834 the drawings. When the drawings are prepared by a registered professional engineer, the
2835 engineer's signature shall also be included.
2836 8.7 Verification of Water Supply:

2837 8.7.1 Fire Flow Tests: Fire Flow Tests for verification of Water Supply shall be conducted and
2838 witnesses for all applications other than residential, unless directed otherwise by the Chief. For
2839 residential Water Supply, verification shall be determined by administrative procedure.

2840 8.7.2 Accurate and Verifiable Criteria. The design calculations and criteria shall include an
2841 accurate and verifiable Water Supply.

2842 Section 41. Section **15A-6-101** is enacted to read:

2843 **CHAPTER 6. ADDITIONAL CONSTRUCTION REQUIREMENTS**

2844 **Part 1. Nitrogen Oxide Emission Limits for Natural Gas-Fired Water Heaters**

2845 **15A-6-101. Title.**

2846 (1) This chapter is known as "Additional Construction Requirements."

2847 (2) This part is known as "Nitrogen Oxide Emission Limits for Natural Gas-Fired
2848 Water Heaters."

2849 Section 42. Section **15A-6-102** is enacted to read:

2850 **15A-6-102. Nitrogen Oxide emission limits for natural gas-fired water heaters.**

2851 (1) As used in this section:

2852 (a) "BTU" means British Thermal Unit.

2853 (b) (i) "Heat input" means the heat of combustion released by fuel burned in a water
2854 heater based on the heating value of the fuel.

2855 (ii) "Heat input" does not include the enthalpy of a water heater's incoming combustion
2856 air.

2857 (c) "Heat output" means the enthalpy of a water heater's working fluid output.

2858 (d) "Natural gas-fired water heater" means a device that heats water:

2859 (i) using natural gas combustion;

2860 (ii) for use external to the device at a pressure that is less than or equal to 160 pounds
2861 per square inch gage; and

2862 (iii) to a thermostatically controlled temperature less than or equal to:

2863 (A) 210 degrees Fahrenheit; or

2864 (B) 99 degrees Celsius.

2865 (e) "ppm" means parts of Nitrogen Oxide per million parts of water heater air output.

2866 (f) "Recreational vehicle" means the same as that term is defined in Section [13-14-102](#).

2867 (2) Subject to Subsection (6), a person may not sell or install a natural gas-fired water

2868 heater with an emission rate greater than the following limits:

2869 (a) for a water heater that has a heat input of less than or equal to 75,000 BTU per hour
2870 that is not installed in a mobile home, a limit of:

2871 (i) 10 nanograms per Joule of heat output; or

2872 (ii) 15 ppm, corrected to 3% oxygen;

2873 (b) for a water heater that has a heat input of greater than 75,000 BTU per hour and less
2874 than 2,000,000 BTU per hour that is not installed in a mobile home, a limit of:

2875 (i) 10 nanograms per Joule of heat output; or

2876 (ii) 20 ppm, corrected to 3% oxygen;

2877 (c) for a water heater installed in a mobile home, a limit of:

2878 (i) 40 nanograms per Joule of heat output; or

2879 (ii) 20 ppm, corrected to 3% oxygen;

2880 (d) for a pool or spa water heater with a heat input that is less than or equal to 400,000
2881 BTU per hour, a limit of:

2882 (i) 40 nanograms per Joule of heat output; or

2883 (ii) 55 ppm, corrected to 3% oxygen; and

2884 (e) for a pool or spa water heater with a heat input of greater than 400,000 BTU per
2885 hour and less than 2,000,000 BTU per hour, a limit of:

2886 (i) 14 nanograms per Joule of heat output; or

2887 (ii) 55 ppm, corrected to 3% oxygen.

2888 (3) A water heater manufacturer shall use California South Coast Air Quality

2889 Management District Method 100.1 to calculate the emissions rate of a water heater subject to
2890 this section.

2891 (4) A water heater manufacturer shall display on a water heater subject to this section,
2892 as a permanent label, the model number and the Nitrogen Oxide emission rate of the water
2893 heater.

2894 (5) The requirements of this section do not apply to:

2895 (a) a water heater using a fuel other than natural gas;

2896 (b) a water heater used in a recreational vehicle;

2897 (c) a water heater manufactured in the state for sale and shipment outside of the state;

2898 or

2899 (d) a water heater manufactured before July 1, 2018.

2900 (6) Subsection (2) applies to the sale or installation of a water heater on or after July 1,
2901 2018.

2901a **Ĥ→ Section 43. Section 15A-6-201 is enacted to read:**

2901b **15A-6-201. Polyurethane insulated concrete forms.**

2901c **(1) Notwithstanding any other provision of this title, a governing body in the state**
2901d **that issues a building permit may not:**

2901e **(a) deny issuing a building permit to a project solely because the project uses**
2901f **polyurethane insulated concrete form block that complies with Subsection (2); or**

2901g **(b) require a project to surface flame retardants on polyurethane insulated concrete**
2901h **form block that has a flame spread that is less than or equal to 25.**

2901i **(2) A project may use polyurethane insulated concrete form block if:**

2901j **(a) the polyurethane insulated concrete form block is manufactured using expanded**
2901k **polyurethane foam that:**

2901l **(i) has a flame spread index that is less than or equal to 50;**

2901m **(ii) has a smoke index that is less than 350; and**

2901n **(iii) is capable of withstanding fluid pressure created by fresh concrete; and**

2901o **(b) the project is designed and stamped by a structural engineer licensed in the**
2901p **state.** ←Ĥ

2901q **Ŝ→ Section 44. Section 15A-6-202 is enacted to read:**

2901r **15A-6-202. Non-polyurethane insulating concrete forms.**

2901s **(1) Notwithstanding any other provision of this title, a governing body in the state**
2901t **that issues a building permit may not:**

2901u **(a) deny issuing a building permit to a project solely because the project uses non-**
2901v **polyurethane insulating concrete form block that complies with Subsection (2); or**

2901w **(b) require a project to apply additional flame retardants to the surface of non-**
2901x **polyurethane insulating concrete form block that has a flame spread that is less than or equal**
2901y **to 25.**

2901z **(2) A project may use non-polyurethane insulating concrete form block if:**

2901aa **(a) the non-polyurethane insulating concrete form block is manufactured using foam plastic**
2901ab **insulation that complies with applicable requirements in Title 15A, State Construction and**
2901ac **Fire Codes Act, for flame spread index and smoke development index;**

2901ad **(b) the non-polyurethane insulating concrete form block complies with any** ☉

2901ae ☛ other requirements applicable to insulating concrete forms in Title 15A, State
 2901af Construction and Fire Codes Act; and
 2901ag (c) the project is designed and stamped by a structural engineer who is
 2901ah licensed in the state. ←§

2902 Section ~~H~~→ [43] 44 ←~~H~~ . Section 58-11a-502 is amended to read:

2903 **58-11a-502. Unlawful conduct.**

2904 Unlawful conduct includes:

2905 (1) practicing or engaging in, or attempting to practice or engage in activity for which a
 2906 license is required under this chapter unless:

2907 (a) the person holds the appropriate license under this chapter; or

2908 (b) an exemption in Section 58-1-307 or 58-11a-304 applies;

2909 (2) knowingly employing any other person to engage in or practice or attempt to
 2910 engage in or practice any occupation or profession licensed under this chapter if the employee
 2911 is not licensed to do so under this chapter or exempt from licensure;

2912 (3) touching, or applying an instrument or device to the following areas of a client's
 2913 body:

2914 (a) the genitals or the anus, except in cases where the patron states to a licensee that the
 2915 patron requests a hair removal procedure and signs a written consent form, which must also
 2916 include the witnessed signature of a legal guardian if the patron is a minor, authorizing the
 2917 licensee to perform a hair removal procedure; or

2918 (b) the breast of a female patron, except in cases in which the female patron states to a
 2919 licensee that the patron requests breast skin procedures and signs a written consent form, which
 2920 must also include the witnessed signature of a parent or legal guardian if the patron is a minor,
 2921 authorizing the licensee to perform breast skin procedures;

2922 (4) using or possessing a solution composed of at least 10% methyl methacrylate on a
 2923 client;

2924 (5) performing an ablative procedure as defined in Section 58-67-102;

2925 (6) when acting as an instructor regarding a service requiring licensure under this
 2926 chapter, for a class or education program where attendees are not licensed under this chapter,
 2927 failing to inform each attendee in writing that:

2928 (a) taking the class or program without completing the requirements for licensure under
 2929 this chapter is insufficient to certify or qualify the attendee to perform a service for

2930 compensation that requires licensure under this chapter; and

2931 (b) the attendee is required to obtain licensure under this chapter before performing the
2932 service for compensation; or

2933 (7) failing as a salon or school where nail technology is practiced or taught to maintain
2934 a source capture system required under [~~Section 15A-3-401~~] Title 15A, State Construction and
2935 Fire Codes Act, including failing to maintain and clean a source capture system's air filter
2936 according to the manufacturer's instructions.

2937 Section ~~Ĥ~~→ [44] 45 ←Ĥ . **Repealer.**

2938 This bill repeals:

2939 Section **15A-3-106.5**, **Amendments to Chapter 15 of IBC.**

2939a ~~Ĥ~~→ **Section 46. Effective date.**

2939b **This bill takes effect on July 1, 2016.** ←Ĥ