

**Representative Calvin R. Musselman** proposes the following substitute bill:

**BUILDING CODE REVISIONS**

2023 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Calvin R. Musselman**

Senate Sponsor: Curtis S. Bramble

---

---

**LONG TITLE**

**General Description:**

This bill modifies construction and fire codes under Title 15A, State Construction and Fire Codes Act.

**Highlighted Provisions:**

This bill:

▶ adopts, with certain statewide amendments, the International Code Council's 2021 edition of the:

- International Building Code, including Appendices C and J;
- certain International Residential Code, including Appendices AE and AQ;
- International Plumbing Code;
- International Mechanical Code;
- International Fuel Gas Code;
- commercial provisions of the International Energy Conservation Code;
- International Existing Building Code; and
- International Swimming Pool and Spa Code; and

▶ makes technical and conforming changes.

**Money Appropriated in this Bill:**

None



26 **Other Special Clauses:**

27       This bill provides a special effective date.

28 **Utah Code Sections Affected:**

29 AMENDS:

30       **15A-1-204**, as last amended by Laws of Utah 2021, First Special Session, Chapter 3

31       **15A-1-403**, as last amended by Laws of Utah 2021, Chapter 199

32       **15A-2-103**, as last amended by Laws of Utah 2021, Chapter 199

33       **15A-2-104**, as last amended by Laws of Utah 2016, Chapter 249

34       **15A-2-105**, as enacted by Laws of Utah 2011, Chapter 14

35       **15A-3-102**, as last amended by Laws of Utah 2019, Chapter 20

36       **15A-3-103**, as last amended by Laws of Utah 2020, Chapters 243, 441

37       **15A-3-104**, as last amended by Laws of Utah 2019, Chapter 20

38       **15A-3-105**, as last amended by Laws of Utah 2019, Chapter 20

39       **15A-3-107**, as last amended by Laws of Utah 2019, Chapter 20

40       **15A-3-108**, as last amended by Laws of Utah 2016, Chapter 249

41       **15A-3-112**, as last amended by Laws of Utah 2020, Chapter 441

42       **15A-3-202**, as last amended by Laws of Utah 2022, Chapter 28

43       **15A-3-203**, as last amended by Laws of Utah 2022, Chapter 28

44       **15A-3-204**, as last amended by Laws of Utah 2021, Chapter 102

45       **15A-3-205**, as last amended by Laws of Utah 2022, Chapter 28

46       **15A-3-206**, as last amended by Laws of Utah 2022, Chapter 28

47       **15A-3-302**, as last amended by Laws of Utah 2019, Chapter 20

48       **15A-3-303**, as last amended by Laws of Utah 2019, Chapter 20

49       **15A-3-304**, as last amended by Laws of Utah 2020, Chapter 441

50       **15A-3-306**, as last amended by Laws of Utah 2022, Chapter 28

51       **15A-3-309**, as last amended by Laws of Utah 2013, Chapter 297

52       **15A-3-310**, as last amended by Laws of Utah 2019, Chapter 20

53       **15A-3-313**, as last amended by Laws of Utah 2020, Chapter 441

54       **15A-3-315**, as enacted by Laws of Utah 2016, Chapter 249

55       **15A-3-402**, as last amended by Laws of Utah 2022, Chapters 28, 415

56       **15A-3-601**, as last amended by Laws of Utah 2021, Chapter 199

57 **15A-3-701**, as last amended by Laws of Utah 2019, Chapter 20

58 **15A-3-801**, as last amended by Laws of Utah 2020, Chapter 441

59 **15A-3-1001**, as enacted by Laws of Utah 2020, Chapter 441



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

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

63 **15A-1-204. Adoption of State Construction Code -- Amendments by commission**  
64 **-- Approved codes -- Exemptions.**

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

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

70 (i) new construction is involved; and

71 (ii) the owner of an existing building, or the owner's agent, is voluntarily engaged in:

72 (A) the repair, renovation, remodeling, alteration, enlargement, rehabilitation,  
73 conservation, or reconstruction of the building; or

74 (B) changing the character or use of the building in a manner that increases the  
75 occupancy loads, other demands, or safety risks of the building.

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

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

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

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

82 (i) to the entire state; or

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

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

86 (b) Legislation described in Subsection (2)(a) shall state that the legislation takes effect  
87 on the July 1 after the day on which the legislation is enacted, unless otherwise stated in the

88 legislation.

89 (c) Subject to Subsection (6), a State Construction Code adopted by the Legislature is  
90 the State Construction Code until, in accordance with this section, the Legislature adopts a new  
91 State Construction Code by:

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

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

94 (3) (a) Except as provided in Subsection (3)(b), for each update of a nationally  
95 recognized construction code, the commission shall prepare a report described in Subsection  
96 (4).

97 (b) For the provisions of a nationally recognized construction code that apply only to  
98 detached one- and two-family dwellings and townhouses not more than three stories above  
99 grade plane in height with separate means of egress and their accessory structures, the  
100 commission shall prepare a report described in Subsection (4) in 2022 and, thereafter, for every  
101 second update of the nationally recognized construction code.

102 (4) (a) In accordance with Subsection (3), on or before September 1 of the year after  
103 the year designated in the title of a nationally recognized construction code, the commission  
104 shall prepare and submit, in accordance with Section 68-3-14, a written report to the Business  
105 and Labor Interim Committee that:

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

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

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

112 (i) study the recommendations; and

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

116 (5) (a) (i) The commission shall, by no later than September 1 of each year in which  
117 the commission is not required to submit a report described in Subsection (4), submit, in  
118 accordance with Section 68-3-14, a written report to the Business and Labor Interim

119 Committee recommending whether the Legislature should amend or repeal one or more  
120 provisions of the State Construction Code.

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

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

125 (i) on the commission's own initiative;

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

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

129 (A) a local regulator;

130 (B) a state regulator;

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

132 (D) the Construction Services Commission;

133 (E) the Electrician Licensing Board;

134 (F) the Plumbers Licensing Board; or

135 (G) a recognized construction-related association.

136 (c) If the Business and Labor Interim Committee decides to recommend legislative  
137 action to the Legislature, the Business and Labor Interim Committee shall prepare legislation  
138 for consideration by the Legislature in the next general session.

139 (6) (a) Notwithstanding the provisions of this section, the commission may, in  
140 accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, amend the State  
141 Construction Code if the commission determines that waiting for legislative action in the next  
142 general legislative session would:

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

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

145 (b) If the commission amends the State Construction Code in accordance with this  
146 Subsection (6), the commission shall file with the division:

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

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

150 (c) If the State Construction Code is amended under this Subsection (6), the division  
151 shall:

152 (i) publish the amendment to the State Construction Code in accordance with Section  
153 15A-1-205; and

154 (ii) prepare and submit, in accordance with Section 68-3-14, a written notice to the  
155 Business and Labor Interim Committee containing the amendment to the State Construction  
156 Code, including a copy of the commission's analysis described in Subsection (6)(b)(ii).

157 (d) If not formally adopted by the Legislature at the next annual general session, an  
158 amendment to the State Construction Code under this Subsection (6) is repealed on the July 1  
159 immediately following the next annual general session that follows the adoption of the  
160 amendment.

161 (7) (a) The division, in consultation with the commission, may approve, without  
162 adopting, one or more approved codes, including a specific edition of a construction code, for  
163 use by a compliance agency.

164 (b) If the code adopted by a compliance agency is an approved code described in  
165 Subsection (7)(a), the compliance agency may:

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

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

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

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

173 (9) A state executive branch entity or political subdivision of the state may:

174 (a) enforce a federal law or regulation;

175 (b) adopt or enforce a rule, ordinance, or requirement if the rule, ordinance, or  
176 requirement applies only to a facility or construction owned or used by a state entity or a  
177 political subdivision of the state; or

178 (c) enforce a rule, ordinance, or requirement:

179 (i) that the state executive branch entity or political subdivision adopted or made  
180 effective before July 1, 2015; and

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

184 (10) The Department of Health and Human Services or the Department of  
185 Environmental Quality may enforce a rule or requirement adopted before January 1, 2015.

186 (11) (a) Except as provided in Subsection (11)(b), a structure used solely in  
187 conjunction with agriculture use, and not for human occupancy, or a structure that is no more  
188 than 1,500 square feet and used solely for the type of sales described in Subsection  
189 [59-12-104](#)(20), is exempt from the requirements of the State Construction Code.

190 (b) (i) Unless exempted by a provision other than Subsection (11)(a), a plumbing,  
191 electrical, and mechanical permit may be required when that work is included in a structure  
192 described in Subsection (11)(a).

193 (ii) Unless located in whole or in part in an agricultural protection area created under  
194 Title 17, Chapter 41, Agriculture, Industrial, or Critical Infrastructure Materials Protection  
195 Areas, a structure described in Subsection (11)(a) is not exempt from a permit requirement if  
196 the structure is located on land that is:

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

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

200 (12) (a) A remote yurt is exempt from the State Construction Code including the  
201 permit requirements of the State Construction Code.

202 (b) Notwithstanding Subsection (12)(a), a county may by ordinance require remote  
203 yurts to comply with the State Construction Code, if the ordinance requires the remote yurts to  
204 comply with all of the following:

205 (i) the State Construction Code;

206 (ii) notwithstanding Section [15A-5-104](#), the State Fire Code; and

207 (iii) notwithstanding Section [19-5-125](#), Title 19, Chapter 5, Water Quality Act, rules  
208 made under that chapter, and local health department's jurisdiction over onsite wastewater  
209 disposal.

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

211 **15A-1-403. Adoption of State Fire Code.**

212 (1) (a) The State Fire Code is:  
213 (i) a code promulgated by a nationally recognized code authority that is adopted by the  
214 Legislature under this section with any modifications; and  
215 (ii) a code to which cities, counties, fire protection districts, and the state shall adhere  
216 in safeguarding life and property from the hazards of fire and explosion.  
217 (b) On and after July 1, 2010, the State Fire Code is the State Fire Code in effect on  
218 July 1, 2010, until in accordance with this section:  
219 (i) a new State Fire Code is adopted; or  
220 (ii) one or more provisions of the State Fire Code are amended or repealed in  
221 accordance with this section.  
222 (c) A provision of the State Fire Code may be applicable:  
223 (i) to the entire state; or  
224 (ii) within a city, county, or fire protection district.  
225 (2) (a) The Legislature shall adopt a State Fire Code by enacting legislation that adopts  
226 a nationally recognized fire code with any modifications.  
227 (b) Legislation described in Subsection (2)(a) shall state that the legislation takes effect  
228 on the July 1 after the day on which the legislation is enacted, unless otherwise stated in the  
229 legislation.  
230 (c) Subject to Subsection (6), a State Fire Code adopted by the Legislature is the State  
231 Fire Code until in accordance with this section the Legislature adopts a new State Fire Code by:  
232 (i) adopting a new State Fire Code in its entirety; or  
233 (ii) amending or repealing one or more provisions of the State Fire Code.  
234 (3) (a) Except as provided in Subsection (3)(b), for each update of a nationally  
235 recognized fire code, the board shall prepare a report described in Subsection (4).  
236 (b) For the provisions of a nationally recognized fire code that apply only to detached  
237 one- and two-family dwellings and townhouses not more than three stories above grade plane  
238 in height with separate means of egress and their accessory structures, the board shall:  
239 (i) prepare a report described in Subsection (4) in 2021 and, thereafter, for every  
240 second update of the nationally recognized fire code; and  
241 (ii) not prepare a report described in Subsection (4) in 2018.  
242 (4) (a) In accordance with Subsection (3), on or before September 1 of the same year as



243 the year designated in the title of an update of a nationally recognized fire code, the board shall  
244 prepare and submit, in accordance with Section 68-3-14, a written report to the Business and  
245 Labor Interim Committee that:

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

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

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

252 (i) study the recommendations; and

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

256 (5) (a) (i) The board shall, by no later than September 1 of each year in which the board  
257 is not required to submit a report described in Subsection (4), submit, in accordance with  
258 Section 68-3-14, a written report to the Business and Labor Interim Committee recommending  
259 whether the Legislature should amend or repeal one or more provisions of the State Fire Code.

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

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

263 (i) on its own initiative; or

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

266 (c) Within 45 days after the day on which the board receives a request under  
267 Subsection (5)(b), the board shall direct the division to convene an informal hearing concerning  
268 the request.

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

271 (e) The board shall decide whether to include the request in the report described in  
272 Subsection (5)(a).

273 (f) (i) Within 15 days after the day on which the board conducts a hearing, the board

274 shall direct the division to notify the entity that made the request of the board's decision  
275 regarding the request.

276 (ii) The division shall provide the notice:

277 (A) in writing; and

278 (B) in a form prescribed by the board.

279 (g) If the Business and Labor Interim Committee decides to recommend legislative  
280 action to the Legislature, the Business and Labor Interim Committee shall prepare legislation  
281 for consideration by the Legislature in the next general session that, if passed by the  
282 Legislature, would amend or repeal one or more provisions of the State Fire Code.

283 (6) (a) Notwithstanding the provisions of this section, the board may, in accordance  
284 with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, amend a State Fire Code if  
285 the board determines that waiting for legislative action in the next general legislative session  
286 would:

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

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

289 (b) If the board amends a State Fire Code in accordance with this Subsection (6), the  
290 board shall:

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

292 (ii) prepare and submit, in accordance with Section 68-3-14, written notice to the  
293 Business and Labor Interim Committee of the adoption, including a copy of an analysis by the  
294 board identifying specific reasons and justifications for its findings.

295 (c) If not formally adopted by the Legislature at the next annual general session, an  
296 amendment to a State Fire Code adopted under this Subsection (6) is repealed on the July 1  
297 immediately following the next annual general session that follows the adoption of the  
298 amendment.

299 (7) (a) Except as provided in Subsection (7)(b), a legislative body of a political  
300 subdivision may enact an ordinance in the political subdivision's fire code that is more  
301 restrictive than the State Fire Code:

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

303 (ii) subject to the requirements of Subsection (7)(c).

304 (b) Except as provided in Subsections (7)(c), (10), and (11), or as expressly provided in

305 state law, a political subdivision may not, after December 1, 2016, enact or enforce a rule or  
306 ordinance that applies to a structure built in accordance with the International Residential  
307 Code, as adopted in the State Construction Code, that is more restrictive than the State Fire  
308 Code.

309 (c) (i) Except as provided in Subsection (7)(c)(ii), a political subdivision may adopt:

310 (A) the appendices of the International Fire Code; and

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

312 (ii) If a political subdivision adopts International Fire Code Appendix B, the political  
313 subdivision may not require:

314 (A) a subdivision of structures built in accordance with the International Residential  
315 Code to have a fire flow rate that is greater than 2000 gallons per minute;

316 (B) an individual structure built in accordance with the International Residential Code  
317 to have a fire flow rate that is greater than 2000 gallons per minute; or

318 (C) a one- or two-family dwelling or a town home to have a fire sprinkler system,  
319 except in accordance with Section 15A-5-203.

320 (d) The board shall submit, in accordance with Section 68-3-14, to the Business and  
321 Labor Interim Committee each year with the recommendations submitted in accordance with  
322 Subsection (4), recommendations, if any, for legislative action related to an ordinance enacted  
323 under this Subsection (7).

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

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

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

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

333 (a) the State Fire Prevention Board; or

334 (b) the Department of Health and Human Services [~~or~~]

335 [~~(c) the Department of Human Services~~].

336 (10) A state executive branch entity or political subdivision of the state may:  
337 (a) enforce a federal law or regulation;  
338 (b) adopt or enforce a rule, ordinance, or requirement if the rule, ordinance, or  
339 requirement applies only to a facility or construction owned or used by a state entity or a  
340 political subdivision of the state; or  
341 (c) enforce a rule, ordinance, or requirement:  
342 (i) that the state executive branch entity or political subdivision adopted or made  
343 effective before July 1, 2015; and  
344 (ii) for which the state executive branch entity or political subdivision can demonstrate,  
345 with substantial evidence, that the rule, ordinance, or requirement is necessary to protect an  
346 individual from a condition likely to cause imminent injury or death.

347 (11) The Department of Health and Human Services or the Department of  
348 Environmental Quality may enforce a rule or requirement adopted before January 1, 2015.  
349 Section 3. Section **15A-2-103** is amended to read:  
350 **15A-2-103. Specific editions adopted of construction code of a nationally**  
351 **recognized code authority.**

352 (1) Subject to the other provisions of this part, the following construction codes are  
353 incorporated by reference, and together with the amendments specified in Chapter 3, Statewide  
354 Amendments Incorporated as Part of State Construction Code, and Chapter 4, Local  
355 Amendments Incorporated as Part of State Construction Code, are the construction standards to  
356 be applied to building construction, alteration, remodeling, and repair, and in the regulation of  
357 building construction, alteration, remodeling, and repair in the state:

358 (a) the ~~[2018]~~ 2021 edition of the International Building Code, including Appendices C  
359 and J, issued by the International Code Council;

360 (b) ~~[the 2015]~~ except as provided in Subsection (1)(c), the 2021 edition of the  
361 International Residential Code, issued by the International Code Council;

362 (c) the residential provisions of Chapter 11, Energy Efficiency, of the 2015 edition of  
363 the International Residential Code, issued by the International Code Council;

364 ~~[(e)]~~ (d) Appendix ~~[Q]~~ AQ of the ~~[2018]~~ 2021 edition of the International Residential  
365 Code, issued by the International Code Council;

366 ~~[(d)]~~ (e) the ~~[2018]~~ 2021 edition of the International Plumbing Code, issued by the

367 International Code Council;

368       ~~(e)~~ (f) the ~~[2018]~~ 2021 edition of the International Mechanical Code, issued by the

369 International Code Council;

370       ~~(f)~~ (g) the ~~[2018]~~ 2021 edition of the International Fuel Gas Code, issued by the

371 International Code Council;

372       ~~(g)~~ (h) the 2020 edition of the National Electrical Code, issued by the National Fire

373 Protection Association;

374       ~~(h)~~ (i) the residential provisions of the 2015 edition of the International Energy

375 Conservation Code, issued by the International Code Council;

376       ~~(i)~~ (j) the commercial provisions of the ~~[2018]~~ 2021 edition of the International

377 Energy Conservation Code, issued by the International Code Council;

378       ~~(j)~~ (k) the ~~[2018]~~ 2021 edition of the International Existing Building Code, issued by

379 the International Code Council;

380       ~~(k)~~ (l) subject to Subsection [15A-2-104\(2\)](#), the HUD Code;

381       ~~(l)~~ (m) subject to Subsection [15A-2-104\(1\)](#), Appendix ~~[E]~~ AE of the ~~[2015]~~ 2021

382 edition of the International Residential Code, issued by the International Code Council;

383       ~~(m)~~ (n) subject to Subsection [15A-2-104\(1\)](#), the 2005 edition of the NFPA 225

384 Model Manufactured Home Installation Standard, issued by the National Fire Protection

385 Association;

386       ~~(n)~~ (o) subject to Subsection (3), for standards and guidelines pertaining to plaster on

387 a historic property, as defined in Section [9-8-302](#), the U.S. Department of the Interior

388 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings;

389 and

390       ~~(o)~~ (p) the residential provisions of the ~~[2018]~~ 2021 edition of the International

391 Swimming Pool and Spa Code, issued by the International Code Council.

392       (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire

393 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,

394 issued by the International Code Council, with the alternatives or amendments approved by the

395 Utah Division of Forestry, Fire, and State Lands, as a construction code that may be adopted by

396 a local compliance agency by local ordinance or other similar action as a local amendment to

397 the codes listed in this section.

398 (3) The standards and guidelines described in Subsection ~~[(1)(n)]~~ (1)(o) apply only if:

399 (a) the owner of the historic property receives a government tax subsidy based on the  
400 property's status as a historic property;

401 (b) the historic property is wholly or partially funded by public money; or

402 (c) the historic property is owned by a government entity.

403 Section 4. Section **15A-2-104** is amended to read:

404 **15A-2-104. Installation standards for manufactured housing.**

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

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

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

412 (i) Appendix E of the ~~[2015]~~ 2021 edition of the IRC, as issued by the International  
413 Code Council for installations defined in Section AE101 of Appendix E; or

414 (ii) if an installation is beyond the scope of the ~~[2015]~~ 2021 edition of the IRC as  
415 defined in Section AE101 of Appendix E, the 2005 edition of the NFPA 225 Model  
416 Manufactured Home Installation Standard, issued by the National Fire Protection Association.

417 (c) A manufacturer, dealer, or homeowner is permitted to design for unusual  
418 installation of a manufactured home not provided for in the manufacturer's standard installation  
419 instruction, Appendix E of the ~~[2015]~~ 2021 edition of the IRC, or the 2005 edition of the  
420 NFPA 225, if the design is approved in writing by a professional engineer or architect licensed  
421 in Utah.

422 (d) For a mobile home built before June 15, 1976, the mobile home shall also comply  
423 with the additional installation and safety requirements specified in Chapter 3, Part 8,  
424 Statewide Amendments to International Existing Building Code.

425 (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed  
426 in the state that does not meet the local snow load requirements as specified in Chapter 3, Part  
427 2, Statewide Amendments to International Residential Code, except that the manufactured  
428 home shall have a protective structure built over the home that meets the IRC and the snow

429 load requirements under Chapter 3, Part 2, Statewide Amendments to International Residential  
430 Code.

431 Section 5. Section **15A-2-105** is amended to read:

432 **15A-2-105. Scope of application.**

433 (1) To the extent that a construction code adopted under Section **15A-2-103** establishes  
434 a local administrative function or establishes a method of appeal which pursuant to Section  
435 **15A-1-207** is designated to be established by the compliance agency:

436 (a) that provision of the construction code is not included in the State Construction  
437 Code; and

438 (b) a compliance agency may establish provisions to establish a local administrative  
439 function or a method of appeal.

440 (2) (a) To the extent that a construction code adopted under Subsection (1) establishes  
441 a provision, standard, or reference to another code that by state statute is designated to be  
442 established or administered by another state agency, or a local city, town, or county  
443 jurisdiction:

444 (i) that provision of the construction code is not included in the State Construction  
445 Code; and

446 (ii) the state agency or local government has authority over that provision of the  
447 construction code.

448 (b) Provisions excluded under this Subsection (2) include:

449 (i) the International Property Maintenance Code;

450 (ii) the International Private Sewage Disposal Code, authority over which is reserved to  
451 the Department of Health and Human Services and the Department of Environmental Quality;

452 (iii) the International Fire Code, authority over which is reserved to the board, pursuant  
453 to Section **15A-1-403**;

454 (iv) a day care provision that is in conflict with Title 26, Chapter 39, Utah Child Care  
455 Licensing Act, authority over which is designated to the [~~Utah~~] Department of Health and  
456 Human Services; and

457 (v) a wildland urban interface provision that goes beyond the authority under Section  
458 **15A-1-204**, for the State Construction Code, authority over which is designated to the Utah  
459 Division of Forestry, Fire, and State Lands or to a local compliance agency.

460 (3) If a construction code adopted under Subsection 15A-2-103(1) establishes a  
461 provision that exceeds the scope described in Chapter 1, Part 2, State Construction Code  
462 Administration Act, to the extent the scope is exceeded, the provision is not included in the  
463 State Construction Code.

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

465 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

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

467 (2) In IBC, Section 110, a new section is added as follows: "~~[110.3.5.1]~~ 110.3.13,  
468 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant  
469 exterior wall envelope as required by Section 1404.2, and flashing as required by Section  
470 1404.4 to prevent water from entering the weather-resistive barrier."

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

475 (4) In IBC, Section 202, the following definition is added for Ambulatory Surgical  
476 Center: "AMBULATORY SURGICAL CENTER. A building or portion of a building licensed  
477 by the [~~Utah~~] Department of Health and Human Services where procedures are performed that  
478 may render patients incapable of self preservation where care is less than 24 hours. See Utah  
479 Administrative Code R432-13."

480 (5) In IBC, Section 202, the definition for "Approved" is modified by adding the words  
481 "or independent third-party licensed engineer or architect and submitted to the building  
482 official" after the word "official."

483 (6) In IBC, Section 202, the definition for "Approved Agency" is modified by deleting  
484 the words "where such agency has been approved by the building official."

485 (7) In IBC, Section 202, the definition for "Approved Fabricator" is modified by adding  
486 the words "or approved by the state of Utah or a licensed engineer" after the word "code."

487 (8) In IBC, Section 202, the definition for "Approved Source" is modified by adding  
488 the words "or licensed engineer" after the word "official."

489 [~~5~~] (9) In IBC, Section 202, the following definition is added for Assisted Living  
490 Facility, Residential Treatment and Support: "ASSISTED LIVING FACILITY<sub>2</sub>



491 RESIDENTIAL TREATMENT AND SUPPORT. [~~See Residential Treatment/Support~~  
492 ~~Assisted Living Facility, Type I Assisted Living Facility, and Type II Assisted Living~~  
493 ~~Facility.~~] A residential facility that provides a group living environment for four or more  
494 residents licensed by the Department of Health and Human Services and provides a protected  
495 living arrangement for ambulatory, non-restrained persons who are capable of achieving  
496 mobility sufficient to exit the facility without the physical assistance of another person.

497 ASSISTED LIVING FACILITY, TYPE I. A residential facility licensed by the  
498 Department of Health and Human Services that provides a protected living arrangement,  
499 assistance with activities of daily living, and social care to two or more ambulatory,  
500 non-restrained persons who are capable of mobility sufficient to exit the facility without the  
501 assistance of another person.

502 ASSISTED LIVING FACILITY, TYPE II. A residential facility licensed by the  
503 Department of Health and Human Services that provides an array of coordinated supportive  
504 personal and health care services to two or more residents who are:

505 (i) Physically disabled but able to direct his or her own care; or

506 (ii) Cognitively impaired or physically disabled but able to evacuate from the facility, or  
507 to a zone or area of safety, with the physical assistance of one person.

508 ASSISTED LIVING FACILITY, LIMITED CAPACITY. A Type I or Type II assisted  
509 living facility having two to five residents.

510 ASSISTED LIVING FACILITY, SMALL. A Type I or Type II assisted living facility  
511 having six to sixteen residents.

512 ASSISTED LIVING FACILITY, LARGE. A Type I or Type II assisted living facility  
513 having more than sixteen residents."

514 ~~[(6)]~~ (10) In IBC, Section 202, the following definition is added for [~~Foster Care~~  
515 ~~Facilities is modified by deleting the word "Foster" and replacing it with the word "Child."~~]  
516 Child Care Facility: "CHILD CARE FACILITY. A facility where care and supervision is  
517 provided for four or more children for less than 24 hours a day and for direct or indirect  
518 compensation in place of care ordinarily provided in their home."

519 ~~[(7)]~~ (11) In IBC, Section 202, the definition for "~~[[F]]~~ [A]Record Drawings" is  
520 modified by deleting the words "a fire alarm system" and replacing them with "any fire  
521 protection system."

522 [~~(8) In IBC, Section 202, the following definition is added for Residential~~  
523 ~~Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT~~  
524 ~~ASSISTED LIVING FACILITY. A residential facility that provides a group living~~  
525 ~~environment for four or more residents licensed by the Department of Human Services, and~~  
526 ~~provides a protected living arrangement for ambulatory, non-restrained persons who are~~  
527 ~~capable of achieving mobility sufficient to exit the facility without the physical assistance of~~  
528 ~~another person."~~]

529 [~~(9) In IBC, Section 202, the following definition is added for Type I Assisted Living~~  
530 ~~Facility: "TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the~~  
531 ~~Department of Health that provides a protected living arrangement, assistance with activities of~~  
532 ~~daily living and social care to two or more ambulatory, non-restrained persons who are capable~~  
533 ~~of mobility sufficient to exit the facility without the assistance of another person. Subcategories~~  
534 ~~are:]~~

535 [~~Limited Capacity: two to five residents;]~~

536 [~~Small: six to sixteen residents; and]~~

537 [~~Large: over sixteen residents."~~]

538 [~~(10) In IBC, Section 202, the following definition is added for Type II Assisted Living~~  
539 ~~Facility: "TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the~~  
540 ~~Department of Health that provides an array of coordinated supportive personal and health care~~  
541 ~~services to two or more residents who are:]~~

542 [~~A. Physically disabled but able to direct his or her own care; or]~~

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

545 [~~Limited Capacity: two to five residents;]~~

546 [~~Small: six to sixteen residents; and]~~

547 [~~Large: over sixteen residents."~~]

548 [~~(11) In IBC, Section 305.2, the following changes are made:]~~

549 [~~(a) delete the words "more than five children older than 2 1/2 years of age" and~~  
550 ~~replace with the words "five or more children 2 years of age or older";]~~

551 [~~(b) after the word "supervision" insert the words "child care services"; and]~~

552 [~~(c) add the following sentence at the end of the paragraph: "See Section 429, Day~~

553 Care, for special requirements for day care."]

554 [~~(12) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced with~~  
555 ~~the word "four" in all places.]~~

556 [~~(13) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child day care --~~  
557 ~~residential child care certificate or a license. Areas used for child day care purposes with a~~  
558 ~~residential child care certificate, as described in Utah Administrative Code, R430-50,~~  
559 ~~Residential Certificate Child Care, or a residential child care license, as described in Utah~~  
560 ~~Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or~~  
561 ~~R-3 occupancy as provided in Sections 310.3 and 310.4 comply with the International~~  
562 ~~Residential Code in accordance with Section R101.2."]~~

563 [~~(14) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child care centers.~~  
564 ~~Each of the following areas may be classified as accessory occupancies, if the area complies~~  
565 ~~with Section 508.2:]~~

566 [~~1. Hourly child care centers, as described in Utah Administrative Code, R381-60,~~  
567 ~~Hourly Child Care Centers;]~~

568 [~~2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care~~  
569 ~~Centers; and]~~

570 [~~3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70,~~  
571 ~~Out of School Time Child Care Programs."]~~

572 [~~(15)~~] (12) In IBC, Section 305, Sections 305.2 through 305.2.3 are deleted and  
573 replaced with the following:

574 "305.2 Group E, child care facilities. This group includes buildings and structures or  
575 portions thereof occupied by four or more children 2 years of age or older who receive  
576 educational, supervision, child care services or personal care services for fewer than 24 hours  
577 per day. See Section 429 Day Care, for special requirements for day care.

578 305.2.1 Within places of religious worship. Rooms and spaces within places of  
579 religious worship providing such day care during religious functions shall be classified as part  
580 of the primary occupancy.

581 305.2.2 Four or fewer children. A facility having four or fewer children receiving such  
582 day care shall be classified as part of the primary occupancy.

583 305.2.3 Four or fewer children in a dwelling unit. A facility such as the above within a

584 dwelling unit and having four or fewer children receiving such day care shall be classified as a  
585 Group R-3 occupancy or shall comply with the International Residential Code.

586 305.2.4 Child day care -- residential child care certificate or a license. Areas used for  
587 child day care purposes with a residential child care certificate, as described in Utah  
588 Administrative Code, R430-50, Residential Certificate Child Care, or a residential child care  
589 license, as described in Utah Administrative Code, R430-90, Licensed Family Child Care, may  
590 be located in a Group R-2 or R-3 occupancy as provided in Sections 310.3 and 310.4 or shall  
591 comply with the International Residential Code in accordance with Section R101.2.

592 305.2.5 Child care centers. Each of the following areas may be classified as accessory  
593 occupancies, if the area complies with Section 508.2:

594 1. Hourly child care center, as described in Utah Administrative Code, R381-60 Hourly  
595 Child Care Centers;

596 2. Child care centers, as described in Utah Administrative Code, R381-100, Child Care  
597 Centers;

598 3. Out-of-school-time programs, as described in Utah Administrative Code, R381-70,  
599 Out of School Time Child Care Programs; and

600 4. Commercial preschools, as described in Utah Administrative Code, R381-40,  
601 Commercial Preschool Programs."

602 (13) In IBC, Table 307.1(1), footnote "d" is added to the row for Explosives, Division  
603 1.4G in the column titled STORAGE - Solid Pounds (cubic feet).

604 ~~[(16)]~~ (14) In IBC, Section 308.2, in the list of items under "This group shall include,"  
605 the words "Type-I Large and Type-II Small, see Section 308.2.5" are added after "Assisted  
606 living facilities."

607 ~~[(17)]~~ (15) In IBC, Section 308.2.4, all of the words after the first International  
608 Residential Code are deleted.

609 ~~[(18)]~~ (16) A new IBC, Section 308.2.5 is added as follows:

610 ~~["308.2.5 Group I-1 assisted living facility occupancy groups. The following occupancy~~  
611 ~~groups shall apply to assisted living facilities:]~~

612 ~~[Type I assisted living facilities with seventeen or more residents are Large Facilities~~  
613 ~~classified as an Institutional Group I-1, Condition 1 occupancy.]~~

614 ~~[Type II assisted living facilities with six to sixteen residents are Small Facilities~~

615 classified as an Institutional Group I-1, Condition 2 occupancy. See Section 202 for  
 616 definitions." ]

617 "308.2.5 Assisted living facilities. A Type I, Large assisted living facility is classified as  
 618 occupancy Group I-1, Condition 1. A Type II, Small assisted living facility is classified as  
 619 occupancy Group I-1, Condition 2. See Section 202 for definitions."

620 [~~19~~] (17) [H] IBC, Section 308.3 is deleted and replaced with the following:

621 "308.3 Institutional Group I-2[~~, the following changes are made:~~]. Institutional Group  
 622 I-2 occupancy shall include buildings and structures used for medical care on a 24-hour basis  
 623 for more than four persons who are incapable of self-preservation. This group shall include, but  
 624 not be limited to the following:

625 Assisted living facilities, Type-II Large, see Section 308.3.3

626 Child care facilities

627 Foster care facilities

628 Detoxification facilities

629 Hospitals

630 Nursing homes (both intermediate care facilities and skilled nursing facilities)

631 Psychiatric hospitals"

632 [~~(a) The words "more than five" are deleted and replaced with "four or more";]~~

633 [~~(b) The group "Assisted living facilities, Type-II Large" is added to the list of groups;]~~

634 [~~(c) The words "Foster care facilities" are deleted and replaced with the words "Child~~  
 635 ~~care facilities"; and]~~

636 [~~(d) The words "(both intermediate care facilities and skilled nursing facilities)" are~~  
 637 ~~added after "Nursing homes."~~]

638 [~~20~~] (18) In IBC, Section 308.3.2, the number "five" is deleted and replaced with the  
 639 number "four" in each location.

640 [~~21~~] (19) A new IBC, Section 308.3.3 is added as follows:

641 "308.3.3 [~~Group I-2 assisted~~] Assisted living facilities. [~~Type II~~] A Type-II, Large  
 642 assisted living [~~facilities with seventeen or more residents are Large Facilities]~~ facilities is  
 643 classified as [~~an Institutional]~~ occupancy Group I-2, Condition 1 [~~occupancy]~~. See Section 202  
 644 for definitions."

645 [~~22~~] (20) In IBC, Section 308.5, the words "more than five" are deleted and replaced

646 with the words "five or more in each location."

647 ~~[(23)]~~ (21) ~~[In]~~ IBC, Section 308.5.1, ~~[the following changes are made]~~ is deleted and  
648 replaced with the following:

649 ~~[(a) The words "more than five" are deleted and replaced with the words "five or~~  
650 ~~more."]~~

651 ~~[(b) The words "2-1/2 years or less of age" are deleted and replaced with "under the age~~  
652 ~~of two."]~~

653 ~~[(c) The following sentence is added at the end: "See Section 429 for special~~  
654 ~~requirements for Day Care."]~~

655 "308.5.1 Classification as Group E. A child day care facility that provides care for five  
656 or more but not more than 100 children under two years of age, where the rooms in which the  
657 children are cared for are located on a level of exit discharge serving such rooms and each of  
658 these child care rooms has an exit door directly to the exterior, shall be classified as a Group E.  
659 See Section 429 for special requirements for Day Care."

660 ~~[(24)]~~ (22) In IBC, Sections 308.5.3 and 308.5.4, the words "five or fewer" are deleted  
661 and replaced with the words "four or fewer" in ~~[both places]~~ each location and the following  
662 sentence is added at the end: "See Section 429 for special requirements for Day Care."

663 ~~[(25)]~~ (23) ~~[In]~~ IBC, Section 310.4, ~~[the following changes are made]~~ is deleted and  
664 replaced with the following:

665 ~~[(a) The words "and single family dwellings complying with the IRC" are added after~~  
666 ~~"Residential Group-3 occupancies."]~~

667 ~~[(b) The words "Assisted Living Facilities, limited capacity" are added to the list of~~  
668 ~~occupancies:]~~

669 "310.4 Residential Group R-3. Residential Group R-3 occupancies and single family  
670 dwellings complying with the International Residential Code where the occupants are primarily  
671 permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

672 Assisted Living Facilities, Type-I, limited capacity, see Section 310.5.3

673 Buildings that do not contain more than two dwellings

674 Care facilities, other than child care, that provide accommodations for five or fewer  
675 persons receiving care

676 Congregate living facilities (nontransient) with 16 or fewer occupants

677 Boarding houses (nontransient)

678 Convents

679 Dormitories

680 Fraternities and sororities

681 Monasteries

682 Congregate living facilities (transient) with 10 or fewer occupants

683 Boarding houses (transient)

684 Lodging houses (transient) with five or fewer guest rooms and 10 or fewer occupants"

685 ~~[(26)] (24) [In] IBC, Section 310.4.1, [the following changes are made] is deleted and~~  
686 replaced with the following:

687 ~~[(a) The words "other than Child Care" are inserted after the words "Care facilities" in~~  
688 ~~the first sentence.]~~

689 ~~[(b) All of the words after the first "International Residential Code" are deleted.]~~

690 ~~[(c) The following sentence is added at the end of the last sentence: "See Section 429~~  
691 ~~for special requirements for Child Day Care."]~~

692 "310.4.1 Care facilities within a dwelling. Care facilities, other than child care, for five  
693 or fewer persons receiving care that are within a single family dwelling are permitted to comply  
694 with the International Residential Code. See Section 429 for special requirements for Child  
695 Day Care."

696 ~~[(27)] (25)~~ A new IBC Section 310.4.3 is added as follows: " 310.4.3 Child Care.

697 Areas used for child care purposes may be located in a residential dwelling unit under all of the  
698 following conditions and Section 429:

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

701 2. Use is approved by the ~~[Utah]~~ Department of Health and Human Services, as  
702 enacted under the authority of the Utah Code, Title 26, Chapter 39, Utah Child Care Licensing  
703 Act, and in any of the following categories:

704 a. Utah Administrative Code, R430-50, Residential Certificate Child Care.

705 b. Utah Administrative Code, R430-90, Licensed Family Child Care.

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

707 ~~[(28)] (26)~~ A new IBC, Section 310.4.4 is added as follows: "310.4.4 Assisted living

708 facilities. Type I assisted living facilities with two to five residents are Limited Capacity  
709 facilities classified as a Residential Group R-3 occupancy or are permitted to comply with the  
710 International Residential Code. See Section 202 for definitions."

711 ~~[(29)]~~ (27) In IBC, Section 310.5, the words "Type II Limited Capacity and Type I  
712 Small, see Section 310.5.3" are added after the words "assisted living facilities."

713 ~~[(30)]~~ (28) A new IBC, Section 310.5.3, is added as follows: "310.5.3 Group R-4  
714 Assisted living facility occupancy groups. The following occupancy groups shall apply to  
715 Assisted Living Facilities: Type II Assisted Living Facilities with two to five residents are  
716 Limited Capacity Facilities classified as a Residential Group R-4, Condition 2 occupancy. Type  
717 I assisted living facilities with six to sixteen residents are Small Facilities classified as  
718 Residential Group R-4, Condition 1 occupancies. See Section 202 for definitions."

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

720 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

721 (1) IBC Section 403.5.5 is deleted.

722 (2) In IBC, Section 404.5, Exception 2.3 is added as follows:

723 "2.3 The atrium does not contain any means of egress component above the two lowest  
724 stories."

725 ~~[(2)]~~ (3) In IBC, Section 407.2.5, the words "and assisted living facility" are added in  
726 the title and first sentence after the words "nursing home."

727 ~~[(3)]~~ (4) In IBC, Section 407.2.6, the words "and assisted living facility" are added in  
728 the title after the words "nursing home."

729 (5) In IBC, Section 407.3.1.1, Item 3 is deleted and replaced with the following:

730 "3. To provide makeup air for exhaust systems in accordance with Section 1020.6,  
731 Exception 1, doors to toilet rooms, bathrooms, shower rooms, sink closets, and similar  
732 auxiliary spaces that do not contain flammable or combustible materials are permitted to have  
733 louvers or an undercut of 2/3 inch (19.1 mm) maximum."

734 (6) In IBC, Section 407.4.1, Exception 3 is added as follows:

735 "3. Only one exit access with direct access to a corridor is required from an assisted  
736 living facility, single resident sleeping unit that consists of a living space and one or two  
737 separate sleeping rooms. For other than closets, toilet and shower rooms, occupants may not be  
738 required to pass through more than one room before reaching the exit access."



739 (7) In IBC, Section 407.4.3, the words "and assisted living facility" are added in the  
740 title and after the words "nursing home."

741 [~~(4)~~] (8) In IBC, Section 407.11, a new exception is added as follows: "Exception: An  
742 essential electrical system is not required in assisted living facilities."

743 [~~(5)~~] (9) In IBC, Section 412.3.1, a new exception is added as follows: "Exception:  
744 Aircraft hangars of Type I or II construction that are less than 5,000 square feet (464.5m2) in  
745 area."

746 [~~(6)~~] (10) A new IBC, Section 422.2.1 is added as follows: " 422.2.1 Separations:  
747 Ambulatory care facilities licensed by the Department of Health and Human Services shall be  
748 separated from adjacent tenants with a fire partition having a minimum one hour fire-resistance  
749 rating. Any level below the level of exit discharge shall be separated from the level of exit  
750 discharge by a horizontal assembly having a minimum one hour fire-resistance rating.

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

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

755 [~~(7)~~] (11) A new IBC Section 429, Day Care, is added as follows:

756 " 429.1 Detailed Requirements. In addition to the occupancy and construction  
757 requirements in this code, the additional provisions of this section shall apply to all Day Care in  
758 accordance with Utah Administrative Code R710-8 Day Care Rules.

759 429.2 Definitions.

760 429.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized  
761 deputies, or the local fire enforcement authority code official.

762 429.2.2 Day Care Facility: Any building or structure occupied by clients of any age who  
763 receive custodial care for less than 24 hours by individuals other than parents, guardians,  
764 relatives by blood, marriage or adoption.

765 429.2.3 Day Care Center: Providing care for five or more clients in a place other than  
766 the home of the person cared for. This would also include Child Care Centers, Out of School  
767 Time or Hourly Child Care Centers licensed by the Department of Health and Human Services.

768 429.2.4 Family Day Care: Providing care for clients listed in the following two groups:

769 429.2.4.1 Type 1: Services provided for five to eight clients in a home. This would also

770 include a home that is certified by the Department of Health and Human Services as  
771 Residential Certificate Child Care or licensed as Family Child Care.

772 429.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient  
773 staffing. This would also include a home that is licensed by the Department of Health and  
774 Human Services as Family Child Care.

775 429.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under  
776 the authority of the Utah Fire Prevention Board.

777 429.3 Family Day Care.

778 429.3.1 Family Day Care units shall have on each floor occupied by clients, two  
779 separate means of egress, arranged so that if one is blocked the other will be available.

780 429.3.2 Family Day Care units that are located in the basement or on the second story  
781 shall be provided with two means of egress, one of which shall discharge directly to the  
782 outside.

783 429.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five  
784 to eight clients in a home, located on the ground level or in a basement, may use an emergency  
785 escape or rescue window as allowed in IFC, Chapter 10, Section 1030.

786 429.3.3 Family Day Care units shall not be located above the second story.

787 429.3.4 In Family Day Care units, clients under the age of two shall not be located  
788 above or below the first story.

789 429.3.4.1 Clients under the age of two may be housed above or below the first story  
790 where there is at least one exit that leads directly to the outside and complies with IFC, Section  
791 1011 or Section 1012 or Section 1027.

792 429.3.5 Family Day Care units located in split entry/split level type homes in which  
793 stairs to the lower level and upper level are equal or nearly equal, may have clients housed on  
794 both levels when approved by the AHJ.

795 429.3.6 Family Day Care units shall have a portable fire extinguisher on each level  
796 occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be  
797 serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

798 429.3.7 Family Day Care units shall have single station smoke detectors in good  
799 operating condition on each level occupied by clients. Battery operated smoke detectors shall  
800 be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure

801 continued operation of the smoke detectors.

802 429.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,  
803 shall have at least one window or door approved for emergency escape.

804 429.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall  
805 include the complete evacuation from the building of all clients and staff. At least annually, in  
806 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape  
807 or rescue window, if one is used as a substitute for one of the required means of egress.

808 429.4 Day Care Centers.

809 429.4.1 Day Care Centers shall comply with either I-4 requirements or E requirements  
810 of the IBC, whichever is applicable for the type of Day Care Center.

811 429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4,  
812 Section 405.

813 429.4.3 Location at grade. Group E child day care centers shall be located at the level  
814 of exit discharge.

815 429.4.3.1 Child day care spaces for children over the age of 24 months may be located  
816 on the second floor of buildings equipped with automatic fire protection throughout and an  
817 automatic fire alarm system.

818 429.4.4 Egress. All Group E child day care spaces with an occupant load of more than  
819 10 shall have a second means of egress. If the second means of egress is not an exit door  
820 leading directly to the exterior, the room shall have an emergency escape and rescue window  
821 complying with Section 1030.

822 429.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative  
823 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of  
824 School Time.

825 429.5 Requirements for all Day Care.

826 429.5.1 Heating equipment in spaces occupied by children shall be provided with  
827 partitions, screens, or other means to protect children from hot surfaces and open flames.

828 429.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All  
829 staff shall be trained on the fire escape plan and procedure."

830 [~~8~~] (12) In IBC, Section 504.4, a new section is added as follows: "504.4.1 Group I-2  
831 Assisted Living Facilities. Notwithstanding the allowable number of stories permitted by Table

832 504.4 Group I-2 Assisted Living Facilities of type VA, construction shall be allowed on each  
833 level of a two-story building when all of the following apply:

834 1. The total combined area of both stories does not exceed the total allowable area for a  
835 one-story, above grade plane building equipped throughout with an automatic sprinkler system  
836 installed in accordance with Section 903.3.1.1.

837 2. All other provisions that apply in Section 407 have been provided."

838 ~~[(9)]~~ (13) A new IBC, Section 504.5, is added as follows: "504.5 Group 1-2 Secured  
839 areas in Assisted Living Facilities. In Type IIIB, IV, and V construction, all areas for the use  
840 and care of residents required to be secured shall be located on the level of exit discharge with  
841 door operations in compliance with Section ~~[1010.1.9.7, as amended]~~ 1010.2.14."

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

843 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

844 (1) In IBC, Section 703.5, the words "with signs or stenciling" are deleted.

845 ~~[(1) In IBC, Section 704.13.2, the following sentence is added to the end of the section:~~

846 ~~"An individual spraying fire-resistant materials may obtain a certificate that demonstrates that~~  
847 ~~the individual has undergone training on how to spray fire-resistant materials to manufacturer's~~  
848 ~~specifications."]~~

849 (2) IBC, Section (F) 902.1, is deleted and replaced with the following: "(F) 902.1  
850 Pump and riser room size. Fire pump rooms and automatic sprinkler system riser rooms shall  
851 be designed with adequate space for all installed equipment necessary for the installation and to  
852 provide sufficient working ~~[space]~~ room around the stationary equipment. Clearances around  
853 equipment to elements of permanent construction, including other installed equipment and  
854 appliances, shall be [in accordance with manufacturer requirements] sufficient to allow  
855 inspection, service, repair or replacement without removing such elements of permanent  
856 construction or disabling the function of a required fire-resistance-rated assembly and not less  
857 than the following minimum elements:

858 ~~[902.1.5]~~ 902.1.1 A minimum clear and unobstructed distance of 12-inches shall be  
859 provided from the installed equipment to the elements of permanent construction.

860 ~~[902.1.6]~~ 902.1.2 A minimum clear and unobstructed distance of 12-inches shall be  
861 provided between all other installed equipment and appliances.

862 ~~[902.1.7]~~ 902.1.3 A clear and unobstructed width of 36-inches shall be provided in

863 front of all installed equipment and appliances, to allow for inspection, service, repair or  
864 replacement without removing such elements of permanent construction or disabling the  
865 function of a required fire-resistance-rated assembly."

866 ~~[902.1.8 Automatic sprinkler system riser rooms shall be provided with a clear and~~  
867 ~~unobstructed passageway to the riser room of not less than 36-inches, and openings into the~~  
868 ~~room shall be clear and unobstructed, with doors swinging in the outward direction from the~~  
869 ~~room and the opening providing a clear width of not less than 34-inches and a clear height of~~  
870 ~~the door opening shall not be less than 80-inches.]~~

871 ~~[902.1.9 Fire pump rooms shall be provided with a clear and unobstructed passageway~~  
872 ~~to the fire pump room of not less than 72-inches, and openings into the room shall be clear,~~  
873 ~~unobstructed and large enough to allow for the removal of the largest piece of equipment, with~~  
874 ~~doors swinging in the outward direction from the room and the opening providing a clear width~~  
875 ~~of not less than 68-inches and a clear height of the door opening shall not be less than~~  
876 ~~80-inches."]~~

877 (3) In IBC, Section 902, new sections are added as follows:

878 "(F) 902.2 fire pump room. Fire pumps and controllers shall be provided with ready  
879 access. Fire pump rooms shall be provided with doors and an unobstructed passageway large  
880 enough to allow for the removal of the largest piece of equipment. The passageway shall have a  
881 clear width not less than 72 inches. Openings into the room shall be clear and unobstructed,  
882 with doors swinging in the outward direction from the fire pump room and the opening  
883 providing a clear width of not less than 68 inches and a clear height of the door opening shall  
884 not be less than 80 inches. The door shall be permitted to be locked provided that the key is  
885 available at all times and located in a Key Box in accordance with Section 506 of the  
886 International Fire Code.

887 (F) 902.3 Automatic sprinkler riser room. Automatic sprinkler system risers shall be  
888 provided with ready access. Automatic sprinkler system riser rooms shall be provided with  
889 doors and an unobstructed passageway large enough to allow for the removal of the largest  
890 piece of equipment. The passageway shall have a clear width not less than 36 inches. Openings  
891 into the room shall be clear and unobstructed, with doors swinging in the outward direction  
892 from the riser room and the opening providing a clear width of not less than 32 inches and a  
893 clear height of the door opening shall not be less than 80 inches. The door shall be permitted to

894 be locked provided that the key is available at all times and located in a Key Box in accordance  
895 with Section 506 of the International Fire Code.

896 (F) 902.4 Marking on access doors. Access doors for automatic sprinkler system riser  
897 rooms and fire pump rooms shall be labeled with an approved sign. The lettering shall be in  
898 contrasting color to the background. Letters shall have a minimum height of 2 inches (51 mm)  
899 with a minimum stroke of 3/8 inch (10 mm).

900 (F) 902.5 Environment. Automatic sprinkler system riser rooms and fire pump rooms  
901 shall be maintained at a temperature of not less than 40 degrees Fahrenheit (4 degrees Celsius).  
902 Heating units shall be permanently installed.

903 (F) 902.6 Lighting. Permanently installed artificial illumination shall be provided in the  
904 automatic sprinkler system riser rooms and fire pump rooms."

905 ~~[(3)]~~ (4) [In] IBC, Section (F)903.2.2, [the words "the entire floor" are] is deleted and  
906 replaced with ["a building" and the last paragraph is deleted.] the following:

907 "(F) 903.2.2 Ambulatory care facilities. An automatic sprinkler system shall be installed  
908 throughout the building containing an ambulatory care facility where either of the following  
909 conditions exist at any time.

910 1. Four or more care recipients are incapable of self-preservation.

911 2. One or more care recipients that are incapable of self-preservation are located at  
912 other than the level of exit discharge serving such a facility."

913 ~~[(4)]~~ (5) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the  
914 following: "2. A Group F-1 fire area is located more than three stories above the lowest level  
915 of fire department vehicle access."

916 ~~[(5)]~~ (6) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the  
917 following: "2. A Group M fire area is located more than three stories above the lowest level of  
918 fire department vehicle access."

919 ~~[(6)]~~ (7) [IBC, Sections (F)903.2.8, (F)903.2.8.1, and (F)903.2.8.2, are deleted and  
920 replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system installed in  
921 accordance with Section 903.3 shall be provided throughout all buildings with a Group R fire  
922 area.] In IBC, Section (F)903.2.8, the following exceptions are added:

923 "Exceptions:

924 1. Detached one- and two-family dwellings and multiple single-family dwellings

925 (townhouses) constructed in accordance with the International Residential Code For One- and  
926 Two-Family Dwellings.

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

930 3. Group R-4 fire areas not more than 4,500 gross square feet and not containing more  
931 than 16 residents, provided all residents are housed on a level of exit discharge and the building  
932 is equipped throughout with an approved fire alarm system that is interconnected and receives  
933 its primary power from the building wiring and a commercial power system."

934 [~~(7) IBC, Section (F)903.2.8.3 is renumbered to (F)903.2.8.1 and the following~~  
935 ~~exception is added:]~~

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

940 [~~(8) IBC, Section (F)903.2.8.4, is deleted:]~~

941 [~~(9) (8) IBC, Section (F) 903.2.8.1 is deleted.~~

942 (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the following: "2.  
943 A Group S-1 fire area is located more than three stories above the lowest level of fire  
944 department vehicle access."

945 [~~(10) IBC, Section (F)904.12, is deleted and replaced with the following: "(F)904.12~~  
946 ~~Commercial cooking systems. The automatic fire-extinguishing system for commercial~~  
947 ~~cooking systems shall be of a type recognized for protection of commercial cooking equipment~~  
948 ~~and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in~~  
949 ~~accordance with UL 300 and listed and labeled for the intended application. The system shall~~  
950 ~~be installed in accordance with this code, its listing and the manufacturer's installation~~  
951 ~~instructions:]~~

952 [~~Exception: Factory-built commercial cooking recirculating systems that are tested in~~  
953 ~~accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of~~  
954 ~~the International Mechanical Code."]~~

955 [~~(11) IBC, Sections (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1, are~~

956 ~~deleted.]~~

957 ~~[(12)]~~ (10) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as  
958 follows:

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

965 ~~[(13)]~~ (11) In IBC, Section (F)905.8, the exception is deleted and replaced with the  
966 following:

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

968 ~~[(14)]~~ (12) In IBC, Section (F)907.2.3 Group E is deleted and rewritten as follows: "A  
969 manual fire alarm system that initiates the occupant notification signal using an emergency  
970 voice/alarm communication system that meets the requirements of Section (F) 907.5.2.2, or a  
971 manual fire alarm system that initiates an approved audible and visual occupant notification  
972 signal that meets the requirements of Sections (F)907.5.2.1, (F)907.5.2.1.1, ~~[(F)907.5.2.2]~~ (F)  
973 907.5.2.1.2, and (F)907.5.2.3, and is installed in accordance with Section (F)907.6 shall be  
974 installed in Group E occupancies. Where automatic fire sprinkler systems or smoke detectors  
975 are installed, the fire sprinkler systems ~~[or]~~ and smoke detectors shall be connected to the  
976 building fire alarm system."

977 ~~[(15) IBC, Sections (F)915 through (F)915.6, are deleted and replaced with the~~  
978 ~~following:]~~

979 ~~["(F)915 Where required:]~~

980 ~~[Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning~~  
981 ~~appliance or in a building that has an attached garage shall be equipped with single-station~~  
982 ~~carbon monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL~~  
983 ~~2034 or UL 2075 and be installed and maintained in accordance with NFPA 720 and the~~  
984 ~~manufacturer's instructions. An open parking garage, as defined in Chapter 2, or an enclosed~~  
985 ~~parking garage, ventilated in accordance with Section 404 of the International Mechanical~~  
986 ~~Code, shall not be considered an attached garage. A minimum of one carbon monoxide alarm~~



987 shall be installed on each habitable level.]

988 [(F) 915.1 Interconnection:]

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

995 [(F) 915.2 Power source:]

996 [In new construction, required carbon monoxide alarms shall receive their primary  
997 power from the building wiring where such wiring is served from a commercial source and  
998 shall be equipped with a battery backup. Carbon monoxide alarms with integral strobes that  
999 are not equipped with a battery backup shall be connected to an emergency electrical system.  
1000 Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall be  
1001 permanent and without a disconnecting switch other than as required for overcurrent  
1002 protection.]

1003 [Exceptions:]

1004 [1. Carbon monoxide alarms are not required to be equipped with a battery backup  
1005 where they are connected to an emergency electrical system.]

1006 [2. Hard wiring of carbon monoxide alarms in existing areas shall not be required  
1007 where the alterations or repairs do not result in the removal of interior wall or ceiling finishes  
1008 exposing the structure, unless there is an attic, crawl space, or basement available that could  
1009 provide access for hard wiring without the removal of interior finishes.]

1010 [(F) 915.3 Group E:]

1011 [A carbon monoxide detection system shall be installed in new buildings that contain  
1012 Group E occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide  
1013 detection system shall be installed in existing buildings that contain Group E occupancies in  
1014 accordance with IFC, Chapter 11, Section 1103.9.]

1015 [(F) 915.3.1 Where required:]

1016 [In Group E occupancies, a carbon monoxide detection system shall be provided where  
1017 a fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is

1018 present.]

1019 ~~[(F) 915.3.2 Detection equipment.]~~

1020 ~~[Each carbon monoxide detection system shall be installed in accordance with NFPA~~  
1021 ~~720 and the manufacturer's instructions and be listed as complying with, for single station~~  
1022 ~~detectors, UL 2034 and, for system detectors, UL 2075.]~~

1023 ~~[(F) 915.3.3 Locations:]~~

1024 ~~[Each carbon monoxide detection system shall be installed in the locations specified in~~  
1025 ~~NFPA 720.]~~

1026 ~~[(F) 915.3.4 Combination detectors:]~~

1027 ~~[A combination carbon monoxide/smoke detector is an acceptable alternative to a~~  
1028 ~~carbon monoxide detection system if the combination carbon monoxide/smoke detector is~~  
1029 ~~listed in accordance with UL 2075 and UL 268.]~~

1030 ~~[(F) 915.3.5 Power source:]~~

1031 ~~[Each carbon monoxide detection system shall receive primary power from the building~~  
1032 ~~wiring if the wiring is served from a commercial source. If primary power is interrupted, each~~  
1033 ~~carbon monoxide detection system shall receive power from a battery. Wiring shall be~~  
1034 ~~permanent and without a disconnecting switch other than that required for overcurrent~~  
1035 ~~protection.]~~

1036 ~~[(F) 915.3.6 Maintenance:]~~

1037 ~~[Each carbon monoxide detection system shall be maintained in accordance with NFPA~~  
1038 ~~720. A carbon monoxide detection system that becomes inoperable or begins to produce end~~  
1039 ~~of life signals shall be replaced.]~~

1040 (13) In IBC, Section (F) 907.2.3 Group E, Exception 2 is deleted and the remaining  
1041 exceptions are renumbered.

1042 (14) In IBC, Section (F) 907.2.3 Group E, renumbered Exception 3.2 is deleted and  
1043 replaced with the following: "Exception 3.2 The fire alarm system will activate on fire  
1044 sprinkler waterflow."

1045 (15) In IBC, Section (F) 907.2.3 Group E, new sections (F) 907.2.3.1 through (F)  
1046 907.2.3.7 are added as follows:

1047 "(F) 907.2.3.1 Automatic detection devices that detect smoke shall be installed  
1048 throughout all corridors and spaces open to the corridor at the maximum prescribed spacing of

1049 thirty feet on center and no more than fifteen feet from the walls or smoke detectors shall be  
1050 installed as required in NFPA, Standard 72, Section 17.7.

1051 (F) 907.2.3.2 Where structures are not protected or are partially protected with an  
1052 automatic fire sprinkler system, approved automatic smoke detectors shall be installed in  
1053 accordance with the complete coverage requirements of NFPA, Standard 72.

1054 (F) 907.2.3.3 An approved key plan drawing and operating instructions shall be posted  
1055 at the main fire alarm panel which displays the location of all alarm zones and if applicable,  
1056 device addresses.

1057 (F) 907.2.3.4 The main panel shall be located in a normally attended area such as the  
1058 main office or lobby. Location of the main panel other than as stated above, shall require the  
1059 review and authorization of the State Fire Marshal Division. Where location as required above  
1060 is not possible, an electronically supervised remote annunciator from the main panel shall be  
1061 located in a supervised area of the building. The remote annunciator shall visually indicate  
1062 system power status, alarms for each zone, and give both visual and audible indication of  
1063 trouble conditions in the system. All indicators on both the main panel and remote annunciator  
1064 shall be adequately labeled.

1065 (F) 907.2.3.5 All system wiring shall be as follows:

1066 (A) The initiating device circuits shall be designated and installed Class A as defined in  
1067 NFPA, Standard 72.

1068 (B) The notification appliance circuits shall be designated and installed Class A as  
1069 defined in NFPA, Standard 72.

1070 (C) Signaling line circuits shall be designated and installed Class A loop as defined in  
1071 NFPA, Standard 72.

1072 (F) 907.2.3.6 Fan Shutdown shall be as follows:

1073 (A) Fan shut down shall be as required in the International Mechanical Code, Chapter  
1074 6, Section 606.

1075 (B) Duct detectors required by the International Mechanical Code, shall be  
1076 interconnected and compatible with the fire alarm system."

1077 (16) IBC, Section (F) 915.2.3 Group E occupancies is deleted and replaced with the  
1078 following:

1079 "(F) 915.2.3 Group E occupancies. Carbon monoxide detectors shall be installed in the

1080 following areas within Group E occupancies:

1081 (1) Boiler rooms, furnace rooms, and similar rooms, or in adjacent areas where carbon  
1082 monoxide is likely to spread. (The installation of carbon monoxide detectors in boiler rooms  
1083 and furnace rooms may cause a false alarm problem. Installing these detectors in adjacent  
1084 spaces where the carbon monoxide is likely to spread from these spaces may be a better  
1085 option.)

1086 (2) Home economics rooms with gas appliances.

1087 (3) School kitchens with gas appliances. (Commercial kitchens).

1088 (4) Arts rooms and other areas with a gas kiln or open flame.

1089 (5) Gas roof top units, and other carbon monoxide producing HVAC units, one per  
1090 zone. (The zone shall be the area covered by the HVAC unit.)

1091 (6) In areas with gas wall units.

1092 (7) In areas with a gas water heater or boiler.

1093 (8) Areas with a forge or foundry.

1094 (9) Metal shop or auto shop areas or in adjacent areas where carbon monoxide is likely  
1095 to spread. (The installation of carbon monoxide detectors in metal shop or auto shop areas may  
1096 cause a false alarm problem. Installing these detectors in adjacent spaces, i.e. class rooms or  
1097 corridors, where the carbon monoxide is likely to spread from these spaces may be a better  
1098 option.)

1099 (10) Labs with open flame.

1100 (11) HVAC units drawing outside air that could be contaminated with carbon  
1101 monoxide.

1102 (12) Other areas with an open flame or fuel fired appliance.

1103 (F) 915.2.3.1 Carbon monoxide alarm signals shall be automatically transmitted to an  
1104 onsite location that is staffed by school personnel.

1105 Exception: Carbon monoxide alarm signals shall not be required to be automatically  
1106 transmitted to an onsite location that is staffed by school personnel in Group E occupancies  
1107 with an occupant load of 30 or less."

1108 (17) A new IBC, Section (F) 915.7 is added as follows:

1109 "(F) 915.7 Carbon monoxide systems in Group E occupancies. Carbon monoxide  
1110 systems may be part of a fire alarm system or standalone system.

1111 (F) 915.7.1 Power and wiring.

1112 (F) 915.7.1.1 Power. Carbon monoxide detection systems shall require a primary and  
1113 secondary power source.

1114 (F) 915.7.1.2 Wiring. Class "A" wiring is required when the carbon monoxide system is  
1115 part of, or connected to, a fire alarm system. Standalone carbon monoxide detection systems  
1116 may use Class "B" wiring. All wiring shall be Class "A" or "B."

1117 (F) 915.7.2 Equipment shut down. Equipment and appliances that are producing carbon  
1118 monoxide shall shut down automatically in the zone involved upon carbon monoxide system  
1119 activation.

1120 (F) 915.7.3 Notification.

1121 (F) 915.7.3.1 Local alarm. Each occupied space shall sound an audible alarm when  
1122 detecting carbon monoxide at a level in excess of 70 ppm for one hour.

1123 (F) 915.7.3.2 General alarm. A blue strobe, visual alarm, is required in a normally  
1124 occupied location, similar to the administrative offices, when carbon monoxide is detected in  
1125 the facility in excess of 70 ppm for one hour.

1126 (F) 915.7.3.2.1 The general alarm shall require a manual reset following an alarm  
1127 activation.

1128 (F) 915.7.3.3 Digital notification. Portable carbon monoxide detectors, with digital read  
1129 out indicating parts per million of carbon monoxide, in a space to determine the level of hazard  
1130 in a given space.

1131 (F) 915.7.4 Monitoring. System monitoring is not required. If the system is monitored,  
1132 the signal should be a supervisory signal indicating carbon monoxide.

1133 (F) 915.7.5 Inspection.

1134 (F) 915.7.5.1 The carbon monoxide detection system shall be tested in the presence of a  
1135 Deputy or Special Deputy of the State Fire Marshal Division. The Deputy shall require "spot  
1136 testing" of the system and its components.

1137 (F) 915.7.5.2 Before requesting final inspection and approval, the installing contractor  
1138 shall test each component of the system and issue a statement of compliance, in writing, to the  
1139 State Fire Marshal Division that the carbon monoxide detection system has been installed in  
1140 accordance with approved plans and has been tested in accordance with the manufacturer's  
1141 specifications, and the appropriate installation standard.

1142 (F) 915.7.5.3 Systems shall be tagged with the State approved tag for fire alarm  
1143 systems, upon final approval and shall be inspected and tagged annually by an individual  
1144 certified as a Master Fire Alarm Technician, by the State Fire Marshal Division.

1145 (F) 915.7.6 Evacuation. The affected area within Group E occupancies shall be  
1146 evacuated when carbon monoxide is detected at a level in excess of 70 ppm for one hour in that  
1147 area."

1148 Section 9. Section **15A-3-105** is amended to read:

1149 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

1150 [~~(1) In IBC, Section 1010.1.9, an exception is added as follows: "Exception: Group E~~  
1151 ~~occupancies for purposes of a lockdown or a lockdown drill in accordance with Section~~  
1152 ~~1010.1.9.5 Exception 5."~~]

1153 [~~(2) In IBC, Section 1010.1.9.2, "Exception:" is deleted and replaced with "Exceptions:~~  
1154 ~~1."~~]

1155 [~~(3) In IBC, Section 1010.1.9.2, a new exception 2 is added as follows: "2. Group E~~  
1156 ~~occupancies for purposes of a lockdown or a lockdown drill may have one lock below 34~~  
1157 ~~inches in accordance with Section 1010.1.9.5 Exception 5."~~]

1158 [~~(4) In IBC, Section 1010.1.9.4, a new number 7 is added as follows: "7. Group E~~  
1159 ~~occupancies for purposes of a lockdown or a lockdown drill in accordance with Section~~  
1160 ~~1010.1.9.5 Exception 5."~~]

1161 [~~(5) In IBC, Section 1010.1.9.5, a new exception 6 is added as follows: "6. Group E~~  
1162 ~~occupancies for purposes of a lockdown or a lockdown drill in accordance with Section~~  
1163 ~~1010.1.9.5 Exception 5."~~]

1164 [~~(6) In IBC, Section 1010.1.9.6, a new exception 5 is added as follows: "5. Group E~~  
1165 ~~occupancies may have a second lock on classrooms for purposes of a lockdown or lockdown~~  
1166 ~~drill, if:]~~

1167 [~~5.1 The application of the lock is approved by the code official.]~~

1168 [~~5.2 The unlatching of any door or leaf does not require more than two operations.]~~

1169 [~~5.3 The lock can be released from the opposite side of the door on which it is~~  
1170 ~~installed.]~~

1171 [~~5.4 The lock is only applied during lockdown or during a lockdown drill.]~~

1172 [~~5.5 The lock complies with all other state and federal regulations, including the~~

1173 ~~Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq.]"~~

1174 ~~[(7) In IBC, Section 1010.1.9.7, a new number 9 is added as follows: "9. The secure~~  
1175 ~~area or unit with special egress locks shall be located at the level of exit discharge in Type IIB,~~  
1176 ~~IV, and V construction."]~~

1177 ~~[(8) (1) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the~~  
1178 ~~following: " 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies,~~  
1179 ~~and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to~~  
1180 ~~individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8~~  
1181 ~~inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum~~  
1182 ~~winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder~~  
1183 ~~tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not~~  
1184 ~~more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread~~  
1185 ~~depth is less than 10 inches (254 mm)."~~

1186 ~~[(9) (2) In IBC, Section 1011.11, a new exception [5] 6 is added as follows: "[5] 6. In~~  
1187 ~~occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U,~~  
1188 ~~which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails~~  
1189 ~~shall be provided on at least one side of stairways consisting of four or more risers."~~

1190 ~~[(10) In IBC, Section 1013.5, the words ", including when the building may not be~~  
1191 ~~fully occupied" are added at the end of the sentence.]~~

1192 ~~[(11) (3) IBC, Section 1025, is deleted.~~

1193 ~~[(12) In IBC, Section 1029.15, exception 2 is deleted.]~~

1194 ~~[(13) In IBC, Section 1207.4, subparagraph 1 is deleted and replaced with the~~  
1195 ~~following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m2) of~~  
1196 ~~floor area. An additional 100 square feet (9.3 m2) of floor area shall be provided for each~~  
1197 ~~occupant of such unit in excess of two."]~~

1198 Section 10. Section **15A-3-107** is amended to read:

1199 **15A-3-107. Amendments to Chapter 16 of IBC.**

1200 (1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2  
1201 Condition 1," a new footnote c is added as follows: "c. Type II Assisted Living Facilities that  
1202 are I-2 Condition 1 occupancy classifications in accordance with Section 308 shall be Risk  
1203 Category II in this table."

1204 (2) In IBC, Section 1605.1, Exception 2 is deleted and replaced with the following:  
 1205 "2. Where the allowable stress design load combinations of ASCE 7 Section 2.4 are  
 1206 used, flat roof snow loads of 30 pounds per square foot (1.44kN/m<sup>2</sup>) or less and roof live loads  
 1207 of 30 pounds per square foot (1.44kn/m<sup>2</sup>) or less need not be combined with seismic loads.  
 1208 Where flat roof snow loads exceed 30 pounds per square foot (1.44 kN/m<sup>2</sup>), the snow loads  
 1209 may be reduced in accordance with the following in load combinations including both snow  
 1210 and seismic loads. S as calculated below, shall be combined with seismic loads.

1211  $S = (0.20 + 0.025 (A-5))\text{Proof}$ , where S shall be greater than or equal to 0.20Proof.

1212 Where:

1213 S = Weight of snow to be used in combination with seismic loads.

1214 A = Elevation above sea level at the location of the structure (ft/1,000)

1215 Proof = Design roof snow loads, Pf or Ps, psf

1216 For the purpose of this section, snow load shall be assumed uniform on the horizontal  
 1217 projection without including the effects of drift or sliding. The Importance Factor, I, used in  
 1218 calculating Pf may be considered 1.0."

1219 (3) In IBC, Section 1605.1 a new exception 4 is added as follows:

1220 "4. ASCE 7-16 Section 2.3.6 Equation 6 shall be modified to  $1.2D + E_v + E_h + L + f_2S$   
 1221 and  $1.2D + E_v + E_{mh} + L + f_2S$  with  $f_2 = (0.20 + 0.025(A-5))$  where the roof snow load  
 1222 exceeds 30 pounds per square foot (1.44kN/m<sup>2</sup>). Where A = Elevation above sea level at the  
 1223 location of the structure (ft/1000).  $f_2 = 0$  for roof snow loads of 30 pounds per square foot  
 1224 (1.44kN/m<sup>2</sup>) or less."

1225 ~~[(2) In IBC, Section 1605.2, in the portion of the definition for the value of  $f_2$ , the~~  
 1226 ~~words "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 =$~~   
 1227  ~~$0.20 + .025(A-5)$  for other configurations where roof snow load exceeds 30 psf;]~~

1228 ~~[ $f_2 = 0$  for roof snow loads of 30 psf (1.44kN/m<sup>2</sup>) or less:]~~

1229 ~~[Where A = Elevation above sea level at the location of the structure (ft./1,000)."]~~

1230 ~~[(3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and~~  
 1231 ~~replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44~~  
 1232 ~~kNm<sup>2</sup>) or less need not be combined with seismic loads. Where flat roof snow loads exceed~~  
 1233 ~~30 pounds per square foot (1.44 kNm<sup>2</sup>), the snow loads may be reduced in accordance with the~~  
 1234 ~~following in load combinations including both snow and seismic loads. S as calculated below,~~



1235 shall be combined with seismic loads.]

1236 [S = (0.20 + 0.025(A-5))Pf is greater than or equal to 0.20 Pf.]

1237 [Where:]

1238 [S = Weight of snow to be used in combination with seismic loads]

1239 [A = Elevation above sea level at the location of the structure (ft./1,000)]

1240 [Pf = Design roof snow load, psf.]

1241 [For the purpose of this section, snow load shall be assumed uniform on the roof

1242 footprint without including the effects of drift or sliding. The Importance Factor, I, used in

1243 calculating Pf may be considered 1.0 for use in the formula for Ws".]

1244 (4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General.

1245 Except as modified in Sections 1608.1.1[;] and 1608.1.2[; ~~and 1608.1.3~~], design snow loads

1246 shall be determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not

1247 be less than that determined by Section 1607. Where the minimum live load, in accordance

1248 with Section 1607, is greater than the design roof snow load[; pf], the live load shall be used

1249 for design, but it may not be reduced to a load lower than the design roof snow load. Drifting

1250 need not be considered for design roof snow loads[; pf], less than 20 psf."

1251 (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Ice dams and icicles

1252 along eaves. Section 7.4.5 of Chapter 7 of ASCE 7 referenced in IBC Section 1608.1 is deleted

1253 and replaced with the following: 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow

1254 loads exceed 75 psf, eaves shall be capable of sustaining a uniformly distributed load of 2pf on

1255 all overhanging portions. No other loads except dead loads shall be present on the roof when

1256 this uniformly distributed load is applied. All building exits under down-slope eaves shall be

1257 protected from sliding snow and ice."

1258 [~~(6) A new IBC, Section 1608.1.2, is added as follows: "1608.1.2 Thermal factor. The~~

1259 ~~value for the thermal factor, Ct, used in calculation of pf shall be determined from Table 7.3-2~~

1260 ~~in ASCE 7. Exception: Except for unheated structures, the value of Ct need not exceed 1.0~~

1261 ~~when ground snow load, pg, is calculated using Section 1608.2.1."~~]

1262 [(7)] (6) A new [IBC, Section 1608.1.3] IBC, Section 1608.1.2 is added as follows:

1263 [~~"1608.1.3~~] "1608.1.2 Drifts on adjacent structures. Section 7.7.2 of ASCE 7 referenced in

1264 IBC, Section 1608.1, is deleted and replaced with the following: 7.7.2 Adjacent structures. At

1265 lower adjacent structures, the requirements of Section 7.7.1 shall be used to calculate windward

1266 and leeward drifts. The resulting drift is permitted to be truncated."

1267 ~~[(8)]~~ (7) A new IBC, Section 1608.2.1 is added as follows: "1608.2.1 Utah ground  
1268 snow loads. Section 7.2 of ASCE 7 referenced in IBC, Section 1608.1 is modified as follows:

1269 (a) In paragraph 1, 7.2-8 is deleted and replaced with 7.2-9.

1270 (b) On Figure 7.2-1, remove CS and other ground snow load values in the state of  
1271 Utah. Add red shaded region for the state of Utah with the following note: See note for Utah.

1272 (c) The following is added to the Note on Figure 7.2.1: See Table 7.2-9 for Utah.

1273 (d) Add Table ~~[7-2-9]~~ 7.2-9 as follows:

1274  
1275  
1276  
1277  
1278  
1279  
1280  
1281  
1282  
1283  
1284  
1285  
1286  
1287  
1288  
1289  
1290  
1291  
1292  
1293  
1294

TABLE 7.2-9			
GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH			
City/Town	County	Ground Snow Load (lb/ft <sup>2</sup> )	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131

1295	Ogden	Weber	37	4334
1296	Panguitch	Garfield	41	6630
1297	Parowan	Iron	32	6007
1298	Price	Carbon	31	5558
1299	Provo	Utah	31	4541
1300	Randolph	Rich	50	6286
1301	Richfield	Sevier	27	5338
1302	St. George	Washington	21	2585
1303	Salt Lake City	Salt Lake	28	4239
1304	Tooele	Tooele	35	5029
1305	Vernal	Uintah	39	5384

Note: To convert lb/ft<sup>2</sup> to kN/m<sup>2</sup>, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.

1306 2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).

3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow load values."

1307 [~~9~~] (8) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 Effective  
 1308 Seismic Weight. In ASCE 12.7.2 and 12.14.8.1 as referenced in Section 1613.1, Definition of  
 1309 W, Item 4 is deleted and replaced with the following:

1310 4. Where flat roof snow load, Pf, exceeds 30 psf (1.44 kN/m<sup>2</sup>), the snow load included  
 1311 in the effective seismic weight shall be calculated, in accordance with the following equation:

1312  $W_s = (0.20 + 0.025(A-5))P_f \geq 0.20 P_f$ .

1313 WHERE:

1314  $W_s$  = Weight of snow to be included as effective seismic weight

1315 A = Elevation above sea level at the location of the structure (ft./1,000)

1316  $P_f$  = Design flat roof snow load, psf.

1317 For the purposes of this section, snow load shall be assumed uniform on the [roof  
 1318 footprint] horizontal projection without including the effects of drift or sliding. The  
 1319 Importance Factor,  $I_s$ , used in calculating  $P_f$  may be considered 1.0 for use in the formula for  
 1320  $W_s$ ."

1321 Section 11. Section **15A-3-108** is amended to read:

1322 **15A-3-108. Amendments to Chapters 17 through 19 of IBC.**

1323 (1) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical  
 1324 concrete foundation design. Group R, Division 3 Occupancies three stories or less in height,  
 1325 and Group U Occupancies, which are constructed in accordance with Section 2308, or with  
 1326 other methods employing repetitive wood-frame construction or repetitive cold-formed steel  
 1327 structural member construction, shall be permitted to have concrete foundations constructed in  
 1328 accordance with Table 1807.1.6.4."

1329 (2) A new IBC, Table 1807.1.6.4 is added as follows:

1330

1331

1332

1333

1334

1335

1336

1337

"TABLE 1807.1.6.4							
EMPIRICAL FOUNDATION WALLS (1,7,8)							
Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
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"
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"
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"
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"
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"

1338

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"
--------------	-----------------------------	----	--------	------------	--	--------------	--

1339

Over 9'(2,743 mm), Engineering required for each column

1340

Footnotes:

1341

(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.

1342

(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.

1343

(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] 1808.8.6. Corner reinforcing shall be provided so as to lap 24 inches (610 mm).

1344

(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.

1345

(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.

1346

(6) Diaphragm shall conform to the requirements of Section 2308.

1347

(7) Footing shall be a minimum of nine inches thick by 20 inches wide.

1348

(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."

1349

(3) A new IBC, Section 1905.1.9, is added as follows: "1905.1.9 ACI 318, [Table

1350

4.2.1] Section 19.3.1.1." Modify ACI 318, Table 19.3.1.1 to read as follows: In the portion of

1351

the table designated as ["Conditions] "Conditions", the following Exposure category and class

1352

is deleted and replaced with the following:

1353

"F0: Concrete elements not exposed to freezing and thawing cycles [to include]

1354

including footing [and foundation] elements, such as footings, tie beams, piles, and pile caps,

1355

etc., that are completely buried in soil."

1356

Section 12. Section 15A-3-112 is amended to read:

1357 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

1358 (1) In IBC [P] Table 2902.1 the following changes are made:

1359 (a) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

1360 (b) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

1361 (c) A new footnote [h] g is added as follows: "FOOTNOTE: g. When provided,  
1362 subject to footnote i, in public toilet facilities there shall be an equal number of diaper  
1363 changing facilities in male toilet rooms and female toilet rooms."1364 (d) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential  
1365 child care facilities shall comply with additional sink requirements of Utah Administrative  
1366 Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care  
1367 Programs, and R381-100-9, Child Care Centers."1368 (e) A new footnote i is added to the table as follows: "FOOTNOTE i: A building  
1369 owned by a state government entity or by a political subdivision of the state that allows access  
1370 to the public shall provide diaper changing facilities in accordance with footnote [h] g if:

1371 1. the building is newly constructed; or

1372 2. a bathroom in the building is renovated."

1373 (f) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
1374 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
1375 accordance with Utah Administrative Code, R392-302, Design, Construction and Operation of  
1376 Public Pools."1377 (2) In IBC, Section [P] 2902.1.1, Exception 2 is deleted and replaced with the  
1378 following:1379 "2. Where multiple-user facilities are designed to serve all genders the following shall  
1380 apply:1381 2.1 The maximum fixture count to serve all genders shall be calculated at 50 percent of  
1382 the total occupant load. The maximum fixture count for the multiple-user all gender facility  
1383 shall be calculated at 50 percent female and 50 percent male.1384 2.2 The remaining 50 percent of the required restroom fixtures shall be provided as  
1385 required by Table 2902.1 in separate toilet facilities."1386 (3) In IBC, Section [P] 2902.2, Exception 6 is deleted and replaced with the following:1387 "6. Separate facilities shall not be required as prescribed in Section 2902.1.1 Exception

1388 2. Rooms having both water closets and lavatory fixtures designed for use by all genders and  
 1389 privacy for water closets shall be installed in accordance with Section 405.3.4 of the  
 1390 International Plumbing Code and Section 2903.1.4 of this code. Urinals in multiple-user all  
 1391 gender toilet facilities shall be located in an area visually separated from the remainder of the  
 1392 facility or each urinal that is provided shall be located in a stall and installed in accordance with  
 1393 Section 405.3.5 of the International Plumbing Code and Section 2903.1.5 of this code."

1394 [~~2~~] (4) A new IBC, Section [P]2902[~~7~~].8, is added as follows:

1395 "[P]2902[~~7~~].8 Toilet Facilities for Workers.

1396 Toilet facilities shall be provided for construction workers and such facilities shall be  
 1397 maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type  
 1398 shall conform to ANSI Z4.3-2016."

1399 (5) In IBC, Section [P] 2903.1.4, the following sentence is added after the first  
 1400 sentence: "For restroom facilities designed to serve all genders, the partitions of the stalls shall  
 1401 extend from the floor to the ceiling."

1402 (6) In IBC, Section [P] 2903.1.5, the following sentence is added at the end of the  
 1403 paragraph: "For facilities designed for use by all genders in the same room, urinals shall be  
 1404 located in a separate room or in stalls with partitions that extend from the floor to the ceiling."

1405 [~~3~~] (7) IBC, Section 3001.2, is deleted.

1406 [~~4~~] (8) In [~~IBC, Section 3006.5~~] IBC, Section 3005.5, a new exception is added as  
 1407 follows: "Exception: Hydraulic elevators and roped hydraulic elevators with a rise of 50 feet or  
 1408 less."

1409 [~~5~~] (9) In IBC, Section 3109.1, the words "the International Swimming Pool and Spa  
 1410 Code" at the end of the section are deleted and replaced with the words "Utah Administrative  
 1411 Code, R392-302, Design, Construction and Operation of Public Pools."

1412 Section 13. Section **15A-3-202** is amended to read:

1413 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

1414 (1) In IRC, Section R101.2, Exception, the words "where provided with an automatic  
 1415 sprinkler system complying with Section P2904" are deleted.

1416 (2) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2  
 1417 Physical change for bedroom window egress. A structure whose egress window in an existing  
 1418 bedroom is smaller than required by this code, and that complied with the construction code in

1419 effect at the time that the bedroom was finished, is not required to undergo a physical change to  
1420 conform to this code if the change would compromise the structural integrity of the structure or  
1421 could not be completed in accordance with other applicable requirements of this code,  
1422 including setback and window well requirements."

1423 (3) IRC, Section R105.2, number 10, is deleted and replaced with the following: "10.  
1424 Decks that are not more than 30 inches (762 mm) above grade at any point and not requiring  
1425 guardrails, that do not serve the exit door required by Section R311.4."

1426 [~~(2)~~] (4) In IRC, Section R108.3, the following sentence is added at the end of the  
1427 section: "The building official shall not request proprietary information."

1428 [~~(3) In IRC, Section 109: (a) A new]~~

1429 (5) IRC, Section 109.1.5, is [added as follows] deleted and replaced with the following:  
1430 "R109.1.5 Weather-resistant exterior wall envelope inspections. An inspection shall be made  
1431 of the weather-resistant exterior wall envelope as required by Section R703.1 and flashings as  
1432 required by Section [~~R703.8~~] R703.4 to prevent water from entering the weather-resistive  
1433 barrier."

1434 [~~(b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;~~  
1435 ~~R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced~~  
1436 ~~masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;~~  
1437 ~~and R109.1.7 Final inspection.]~~

1438 [~~(4) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice~~  
1439 ~~to owner. Upon notice from the building official that work on any building or structure is~~  
1440 ~~being prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or~~  
1441 ~~in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work~~  
1442 ~~order shall be in writing and shall be given to the owner of the property involved, or to the~~  
1443 ~~owner's agent or to the person doing the work, and shall state the conditions under which work~~  
1444 ~~will be permitted to resume."]~~

1445 [~~(5)~~] (6) In IRC, Section R202, the following definition is added: "ACCESSORY  
1446 DWELLING UNIT: A habitable living unit created within the existing footprint of a primary  
1447 owner-occupied single-family dwelling."

1448 (7) In IRC, Section R202, the definition for "Approved" is modified by adding the  
1449 words "or independent third-party licensed engineer or architect and submitted to the building



1450 official" after the word "official."

1451 (8) In IRC, Section R202, the definition for "Approved Agency" is modified by  
1452 replacing the word "and" with "or."

1453 (9) In IRC, Section 202, the definition for "Approved Source" is modified by adding  
1454 the words "or licensed engineer or architect" after the word "official."

1455 ~~[(6)]~~ (10) In IRC, Section R202, the following definition is added: "CERTIFIED  
1456 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to  
1457 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
1458 under Utah Code, Subsection [19-4-104\(4\)](#)."

1459 ~~[(7)]~~ (11) In IRC, Section R202, the definition of "Cross Connection" is deleted and  
1460 replaced with the following: "CROSS CONNECTION. Any physical connection or potential  
1461 connection or arrangement between two otherwise separate piping systems, one of which  
1462 contains potable water and the other either water of unknown or questionable safety or steam,  
1463 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
1464 with the direction of flow depending on the pressure differential between the two systems (see  
1465 "Backflow, Water Distribution")."

1466 (12) In IRC, Section 202, the following definition is added: "DUAL SOURCE  
1467 CONNECTION. A pipe that is installed so that either the nonpotable (i.e. secondary) irrigation  
1468 water or the potable water is connected to a pressurized irrigation system at one time, but not  
1469 both at the same time; or a pipe that is installed so that either the potable water or private well  
1470 water is connected to a residence at one time, but not both at the same time. The potable water  
1471 supply line shall be protected by a reduced pressure backflow preventer."

1472 ~~[(8)]~~ (13) In IRC, Section 202, the following definition is added: "ENERGY  
1473 STORAGE SYSTEM (ESS). One or more devices, assembled together, that are capable of  
1474 storing energy for supplying electrical energy at a future time."

1475 ~~[(9)]~~ (14) In IRC, Section 202, in the definition for gray water a comma is inserted  
1476 after the word "washers"; the word "and" is deleted; and the following is added to the end: "and  
1477 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible;  
1478 without objectionable odors; non-highly pigmented; and will not interfere with the operation of  
1479 the sewer treatment facility."

1480 ~~[(10)]~~ (15) In IRC, Section R202, the definition of "Potable Water" is deleted and

1481 replaced with the following: "POTABLE WATER. Water free from impurities present in  
 1482 amounts sufficient to cause disease or harmful physiological effects and conforming to the  
 1483 Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water  
 1484 Quality Act, and the regulations of the public health authority having jurisdiction."

1485 ~~[(H)] (16)~~ IRC, Figure R301.2~~[(5);]~~ (3), is deleted and replaced with R301.2~~[(5)]~~ (3)  
 1486 as follows:

"TABLE R301.2 <del>[(5)]</del> (3)			
GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH			
City/Town	County	Ground Snow Load (lb/ft2)	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630

1510	Parowan	Iron	32	6007
1511	Price	Carbon	31	5558
1512	Provo	Utah	31	4541
1513	Randolph	Rich	50	6286
1514	Richfield	Sevier	27	5338
1515	St. George	Washington	21	2585
1516	Salt Lake City	Salt Lake	28	4239
1517	Tooele	Tooele	35	5029
1518	Vernal	Uintah	39	5384

Note: To convert lb/ft<sup>2</sup> to kN/m<sup>2</sup>, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.

1519 2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).

3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow load values."

1520 [~~(12)~~] (17) IRC, Section R301.6, is deleted and replaced with the following: "R301.6  
 1521 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the  
 1522 jurisdictions identified in that table. Otherwise, for other locations in Utah, see Bean, B.,  
 1523 Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and  
 1524 Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for  
 1525 ground snow load values."

1526 [~~(13)~~] (18) In IRC, Section R302.2, the following sentence is added [~~after the second~~  
 1527 ~~sentence~~] at the end of the paragraph: "When an access/maintenance agreement or easement is  
 1528 in place, plumbing, mechanical ducting, schedule 40 steel gas pipe, and electric service  
 1529 conductors including feeders, are permitted to penetrate the common wall at grade, above  
 1530 grade, or below grade."

1531 [~~(14)~~] (19) In IRC, Section R302.3, a new exception 3 is added as follows: "3.

1532 Accessory dwelling units separated by walls or floor assemblies protected by not less than  
1533 1/2-inch (12.7 mm) gypsum board or equivalent on each side of the wall or bottom of the floor  
1534 assembly are exempt from the requirements of this section."

1535 ~~[(15)]~~ (20) In IRC, Section R302.5.1, the ~~[words "self-closing device" are deleted and~~  
1536 ~~replaced with "self-latching hardware."]~~ last sentence is deleted.

1537 ~~[(16)]~~ (21) IRC, Section R302.13, is deleted.

1538 ~~[(17)]~~ (22) In IRC, Section R303.4, the ~~[number "5" is changed to "3" in the first~~  
1539 ~~sentence]~~ following exception is added. "Exception: Dwelling units tested in accordance with  
1540 Section N1102.4.1.2 (R402.4.1.2) which has an air tightness of 3.0 ACH (50) or greater do not  
1541 require mechanical ventilation."

1542 ~~[(18)]~~ (23) In IRC, Section ~~[R310.6]~~ R310.7, in the exception, the words "or accessory  
1543 dwelling units" are added after the words "sleeping rooms".

1544 ~~[(19)]~~ (24) IRC, Sections ~~[R311.7.4]~~ R311.7.45 through R311.7.5.3, are deleted and  
1545 replaced with the following: ~~["R311.7.4]~~ "R311.7.45.1 Stair treads and risers. R311.7.5.1  
1546 Riser height. The maximum riser height shall be 8 inches (203 mm). The riser shall be  
1547 measured vertically between leading edges of the adjacent treads. The greatest riser height  
1548 within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

1549 R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The  
1550 tread depth shall be measured horizontally between the vertical planes of the foremost  
1551 projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread  
1552 depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).  
1553 Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at  
1554 a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall  
1555 have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
1556 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
1557 more than 3/8 inch (9.5 mm).

1558 R311.7.5.3 ~~[Profile]~~ Nosing. The radius of curvature at the leading edge of the tread  
1559 shall be no greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not  
1560 more than 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest  
1561 nosing projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5  
1562 mm) between two stories, including the nosing at the level of floors and landings. Beveling of

1563 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
1564 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad)  
1565 from the vertical. Open risers are permitted, provided that the opening between treads does not  
1566 permit the passage of a 4-inch diameter (102 mm) sphere.

1567 Exceptions.

1568 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

1569 2. The opening between adjacent treads is not limited on stairs with a total rise of 30  
1570 inches (762 mm) or less."

1571 ~~[(20)]~~ (25) IRC, Section R312.2, is deleted.

1572 ~~[(21)]~~ (26) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
1573 following: "R313.1 Design and installation. When installed, automatic residential fire  
1574 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and  
1575 installed in accordance with Section P2904 or NFPA 13D."

1576 ~~[(22)]~~ (27) In IRC, Section R314.2.2, the words "or accessory dwelling units" are  
1577 added after the words "sleeping rooms".

1578 ~~[(23)]~~ (28) In IRC, Section R315.2.2, the words "or accessory dwelling units" are  
1579 added after the words "sleeping rooms".

1580 ~~[(24)]~~ (29) In IRC, Section 315.3, the following words are added to the first sentence  
1581 after the word "installed": "on each level of the dwelling unit and."

1582 ~~[(25) In IRC, Section R315.5, a new exception, 3, is added as follows:]~~

1583 ~~["3. Hard wiring of carbon monoxide alarms in existing areas shall not be required  
1584 where the alterations or repairs do not result in the removal of interior wall or ceiling finishes  
1585 exposing the structure, unless there is an attic, crawl space or basement available which could  
1586 provide access for hard wiring, without the removal of interior finishes."]~~

1587 ~~[(26) A new IRC, Section R315.7, is added as follows: " R315.7 Interconnection-~~

1588 Where more than one carbon monoxide alarm is required to be installed within an individual  
1589 dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in  
1590 such a manner that the actuation of one alarm will activate all of the alarms in the individual  
1591 unit. Physical interconnection of smoke alarms shall not be required where listed wireless  
1592 alarms are installed and all alarms sound upon activation of one alarm.]

1593 ~~[Exception: Interconnection of carbon monoxide alarms in existing areas shall not be~~

1594 required where alterations or repairs do not result in removal of interior wall or ceiling finishes  
1595 exposing the structure, unless there is an attic, crawl space or basement available which could  
1596 provide access for interconnection without the removal of interior finishes." ]

1597 [ ~~(27)~~ In IRC, Section R317.1.5, the period is deleted and the following language is  
1598 added to the end of the paragraph: "or treated with a moisture resistant coating." ]

1599 [ ~~(28)~~ In IRC, Section 326.1, the words "residential provisions of the" are added after  
1600 the words "pools and spas shall comply with". ]

1601 [ ~~(29)~~ ] (30) A new IRC, Section [ ~~327~~ ] R328.12, [ ~~Stationary Storage Battery Systems~~; ]  
1602 is added as follows:

1603 [ ~~"327.1 General. Energy storage systems (ESS) shall comply with the provisions of this~~  
1604 ~~section.~~ ]

1605 [ ~~Exceptions:~~ ]

1606 [ ~~1. ESS listed and labeled in accordance with UL 9540 and marked "For use in~~  
1607 ~~residential dwelling units", where installed in accordance with the manufacturer's instruction~~  
1608 ~~and NFPA 70.~~ ]

1609 [ ~~2. ESS less than 1kWh (3.6 megajoules).~~ ]

1610 [ ~~327.2 Equipment listings. ESS shall be listed and labeled in accordance with UL~~  
1611 ~~9540.~~ ]

1612 [ ~~Exception. Where approved, repurposed unlisted battery systems from electric vehicle~~  
1613 ~~are allowed to be installed outdoors or in detached sheds located not less than 5 feet (1524 mm)~~  
1614 ~~from exterior walls, property lines and public ways.~~ ]

1615 [ ~~327.3 Installation. ESS shall be installed in accordance with the manufacturer's~~  
1616 ~~instructions and their listing.~~ ]

1617 [ ~~327.3.1 Spacing. Individual units shall be separate from each other by not less than~~  
1618 ~~three feet (914 mm) except where smaller separation distances are documented to be adequate~~  
1619 ~~based on large-scale fire testing complying with Section 1206.2.3 of the adopted International~~  
1620 ~~Fire Code.~~ ]

1621 [ ~~327.4 Locations. ESS shall be installed only in the following locations:~~ ]

1622 [ ~~1. Detached garages and detached accessory structures.~~ ]

1623 [ ~~2. Attached garages separated from the dwelling unit living space in accordance with~~  
1624 ~~Section R302.6.~~ ]

1625 ~~[3. Outdoors or on the exterior side of exterior walls located not less than 3 feet (914~~  
1626 ~~mm) from doors and windows directly entering the dwelling unit.]~~

1627 ~~[4. Enclosed utility closets, basements, storage or utility spaces within dwelling units~~  
1628 ~~with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished~~  
1629 ~~wood-framed construction shall be provided with not less than 5/8-inch (15.9 mm) Type X~~  
1630 ~~gypsum wallboard.]~~

1631 ~~[ESS shall not be installed in sleeping rooms, or closets or spaces opening directly into~~  
1632 ~~sleeping rooms.]~~

1633 ~~[327.5 Energy ratings. Individual ESS units shall have a maximum rating of 20 kWh.~~  
1634 ~~The aggregate rating of the ESS shall not exceed:]~~

1635 ~~[1. 40 kWh within utility closets, basements, and storage or utility spaces:]~~

1636 ~~[2. 80 kWh in attached or detached garages and detached accessory structures:]~~

1637 ~~[3. 80 kWh on exterior walls:]~~

1638 ~~[4. 80 kWh outdoors on the ground:]~~

1639 ~~[ESS installations exceeding the permitted individual or aggregate ratings shall be~~  
1640 ~~installed in accordance with Sections 1206.2.1 through 1206.2.12 of the adopted International~~  
1641 ~~Fire Code.]~~

1642 ~~[327.6 Electrical installation. ESS shall be installed in accordance with NFPA 70.~~

1643 ~~Inverters shall be listed and labeled in accordance with UL 1741 or provided as part of the UL~~  
1644 ~~9540 listing. Systems connected to the utility grid shall use inverters listed for utility~~  
1645 ~~interaction.]~~

1646 ~~[327.7 Fire detection. Rooms and areas within dwelling units, basements, and attached~~  
1647 ~~garages in which ESS are installed shall be protected by smoke alarms in accordance with~~  
1648 ~~Section R314. A heat detector, listed and interconnected to the smoke alarms, shall be installed~~  
1649 ~~in locations within dwelling units and attached garages where smoke alarms cannot be installed~~  
1650 ~~based on their listing.]~~

1651 ~~[327.8 Protection from impact. ESS installed in a location subject to vehicle damage~~  
1652 ~~shall be protected by approved barriers.]~~

1653 ~~[327.9 Ventilation. Indoor installations of ESS that include batteries that produce~~  
1654 ~~hydrogen or other flammable gasses during charging shall be provided with mechanical~~  
1655 ~~ventilation in accordance with Section M1307.4.]~~

1656 ~~[327.10 Electric vehicle use. The temporary use of an owner or occupant's~~  
1657 ~~electric-powered vehicle to power a dwelling unit while parked in an attached or detached~~  
1658 ~~garage or outdoors shall comply with the vehicle manufacturer's instructions and NFPA 70.]~~

1659 ~~[327.11]~~ "R328.12 Signage. A sign located on the exterior of the dwelling shall be  
1660 installed at a location approved by the authority having jurisdiction which identifies the battery  
1661 chemistry included in the ESS. This sign shall be of sufficient durability to withstand the  
1662 environment involved and shall not be handwritten."

1663 (31) In IRC, Section 403.1.3.5.3, an exception is added as follows: "Exception:  
1664 Vertical steel in footings shall be permitted to be located while concrete is still plastic and  
1665 before it has set. Where vertical steel resists placement or the consolidation of concrete around  
1666 steel is impeded, the concrete shall be vibrated to ensure full contact between the vertical steel  
1667 and concrete."

1668 ~~[(30)]~~ (32) In IRC, Section R403.1.6, a new Exception 3 is added as follows: "3.  
1669 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
1670 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
1671 from each end of each plate section at interior bearing walls, interior braced wall lines, and at  
1672 all exterior walls."

1673 ~~[(31)]~~ (33) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2  
1674 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816  
1675 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
1676 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
1677 interior braced wall lines, and at all exterior walls."

1678 ~~[(32)]~~ (34) In IRC, Section R404.1, a new exception is added as follows: "Exception:  
1679 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
1680 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
1681 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1682 ~~[(33)]~~ (35) In IRC, Section R405.1, a ~~[new]~~ second exception is added as follows:  
1683 "Exception: When a geotechnical report has been provided for the property, a drainage system  
1684 is not required unless the drainage system is required as a condition of the geotechnical report.  
1685 The ~~[geological]~~ geotechnical report shall make a recommendation regarding a drainage  
1686 system."



1687 (36) In IRC, Section R506.2.3, the words "10-mil (0.010 inch; 0.25 mm)" are deleted  
1688 and replaced with "6-mil (0.006 inch; .152 mm)" and the words "conforming to ASTM E1745  
1689 Class A requirements" are deleted.

1690 Section 14. Section **15A-3-203** is amended to read:

1691 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

1692 (1) IRC, Section 609.4.1, is deleted.

1693 (2) In IRC, Section N1101.5 (R103.2), all words after the words "herein governed." are  
1694 deleted and replaced with the following: "Construction documents include all documentation  
1695 required to be submitted in order to issue a building permit."

1696 [~~2~~] (3) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is  
1697 deleted.

1698 [~~3~~] (4) In IRC, Section N1101.13 (R401.2), add Exception as follows:

1699 "2. Exception: A project complies if the project demonstrates compliance, using the  
1700 software RESCheck 2012 Utah Energy Conservation Code, of:

1701 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than  
1702 code";

1703 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than  
1704 code"; and

1705 (c) after January 1, 2021, "5 percent better than code.""

1706 [~~4~~] (5) In IRC, Table N1102.2 (R402.1.2), in the column titled MASS WALL  
1707 R-VALUE, a new footnote j is added as follows:

1708 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5  
1709 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a  
1710 .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE  
1711 (oil), and all other component requirements are met."

1712 [~~5~~] (6) In IRC, Sections N1102.2.1 (R402.2.1), a new Section N1102.2.1.1 is added  
1713 as follows:

1714 "N1102.2.1.1. Unvented attic and unvented enclosed rafter assemblies. Unvented Attic  
1715 and unvented enclosed rafter assemblies conforming to Section R806.5 shall be provided with  
1716 an R-value of R-22 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26  
1717 (maximum U-factor of 0.038) in Climate Zones 5-B and 6-B provided all the following

1718 conditions are met:

1719 1. The unvented attic assembly complies with the requirements of the International  
1720 Residential Code, R806.5.

1721 2. The house shall attain a blower door test result < 2.5ACH 50.

1722 3. The house shall require a whole house mechanical ventilation system that does not  
1723 rely solely on a negative pressure strategy (must be positive, balanced or hybrid).

1724 4. Where insulation is installed below the roof deck and the exposed portion of roof  
1725 rafters are not already covered by the R-20 depth of the air-impermeable insulation, the  
1726 exposed portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly  
1727 covered by drywall/finished ceiling. Roof rafters are not required to be covered by minimum  
1728 R-3 if a continuous insulation is installed above the roof deck.

1729 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be  
1730 inside the building thermal envelope."

1731 (7) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is  
1732 deleted and replaced with the word "or."

1733 ~~[(6)]~~ (8) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and  
1734 replaced with the following: "Where allowed by the code official, the builder may certify  
1735 compliance to components criteria for items which may not be inspected during regularly  
1736 scheduled inspections."

1737 ~~[(7)]~~ (9) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:

1738 (a) In the first sentence:

1739 (i) "The building or dwelling unit" is deleted and replaced with "A single-family  
1740 dwelling";

1741 (ii) after January 1, 2019, replace the word "five" with "3.5"; and

1742 (iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate  
1743 Zones 3 through 8" are deleted.

1744 (b) The following sentence is inserted after the first sentence: "A multi-family dwelling  
1745 and townhouse shall be tested and verified as having an air leakage rate of not exceeding five  
1746 air changes per hour."

1747 (c) In the third sentence, the word "third" is deleted.

1748 (d) The following sentence is inserted after the third sentence: "The following parties

1749 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed  
 1750 contractors who have completed training provided by Blower Door Test equipment  
 1751 manufacturers or other comparable training."

1752 ~~[(8)]~~ (10) In IRC, Section N1103.3.3 (R403.3.3)~~[-]~~, the exception for duct air leakage  
 1753 testing is deleted and replaced with the following:

1754 ~~[(a) the exception for duct air leakage testing is deleted; and]~~

1755 ~~[(b) the exception for duct air leakage is replaced:]~~

1756 ~~[(i)]~~ (a) on or after January 1, 2017, and before January 1, 2019, with the following:

1757 "Exception: The duct air leakage test is not required for systems with all air handlers and at  
 1758 least 65% of all ducts (measured by length) located entirely within the building thermal  
 1759 envelope.";

1760 ~~[(ii)]~~ (b) on or after January 1, 2019, and before January 1, 2021, with the following:

1761 "Exception: The duct air leakage test is not required for systems with all air handlers and at  
 1762 least 75% of all ducts (measured by length) located entirely within the building thermal  
 1763 envelope."; and

1764 ~~[(iii)]~~ (c) on or after January 1, 2021, with the following: "Exception: The duct air  
 1765 leakage test is not required for systems with all air handlers and at least 80% of all ducts  
 1766 (measured by length) located entirely within the building thermal envelope."

1767 ~~[(9)]~~ (11) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the  
 1768 second exception: "The following parties shall be approved to conduct testing: Parties certified  
 1769 by BPI or RESNET, or licensed contractors who have completed either training provided by  
 1770 Duct Test equipment manufacturers or other comparable training."

1771 ~~[(10)]~~ (12) In IRC, Section N1103.3.4 (R403.3.4):

1772 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,  
 1773 the number 3 is changed to 6, the number 85 is changed to 114.6; and

1774 (b) in Subsection 2:

1775 (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to  
 1776 8 and the number 113.3 is changed to 226.5;

1777 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to  
 1778 7 and the number 113.3 is changed to 198.2; and

1779 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is

1780 changed to 169.9.

1781 ~~[(11)]~~ (13) In IRC, Section N1103.3.5 (R403.3.5), the words "or plenums" are deleted.

1782 ~~[(12)]~~ (14) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and

1783 Subsections 6 and 7 are renumbered.

1784 ~~[(13)]~~ (15) IRC, Section N1103.6.1 (R403.6.1), is deleted and replaced with the

1785 following: "N1103.6.1 (R403.6.1) Whole-house mechanical ventilation system fan efficacy.

1786 Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements

1787 of Table N1103.6.1 (R403.6.1).

1788 Exception: Where an air handler that is integral to tested and listed HVAC equipment is

1789 used to provide whole-house mechanical ventilation, the air handler shall be powered by an

1790 electronically commutated motor."

1791 ~~[(14)]~~ (16) In IRC, Section N1103.6.1 (R403.6.1), the table is deleted and replaced

1792 with the following:

1793 "TABLE N1103.6.1 (R403.6.1)

1794 MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any"

1801 ~~[(15)]~~ (17) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with

1802 the following:

1803 "TABLE N1106.4 (R406.4)

1804 MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69

1808	6	68"
------	---	-----

1809            ~~[(16)]~~ (18) In IRC, Section N1103.7 the word "approved" is deleted in the first  
 1810 sentence and the following is added after the word methodologies ", complying with  
 1811 N1103.7.1".

1812            ~~[(17)]~~ (19) A new IRC, Section N1103.7.1 is added as follows: "N1103.7.1  
 1813 Qualifications. An individual performing load calculations shall be qualified by completing  
 1814 HVAC [~~load calculation~~] training from one of the following:

- 1815            1. HVAC load calculation education from ACCA;
- 1816            2. A recognized educational institution;
- 1817            3. HVAC equipment manufacturer's training; or
- 1818            4. Other recognized industry certification."

1819            ~~[(18)]~~ (20) In IRC, Section M1307.2, the words "In Seismic Design Categories D0, D1,  
 1820 and D2, and in townhouses in Seismic Design Category C", are deleted, and in Subparagraph 1,  
 1821 the last sentence is deleted.

1822            ~~[(19)]~~ (21) In IRC, Section M1401.3 the word "approved" is deleted in the first  
 1823 sentence and the following is added after the word methodologies ", complying with  
 1824 M1401.3.1".

1825            ~~[(20)]~~ (22) A new IRC, Section M1401.3.1, is added as follows: "M1401.3.1  
 1826 Qualifications. An individual performing load calculations shall be qualified by completing  
 1827 HVAC [~~load calculation~~] training from one of the following:

- 1828            1. HVAC load calculation education from ACCA;
- 1829            2. A recognized educational institution;
- 1830            3. HVAC equipment manufacturer's training; or
- 1831            4. Other recognized industry certification."

1832            ~~[(21)]~~ (23) In IRC, Section M1402.1, the following is added at the end of the second  
 1833 sentence: "or UL/CSA 60335-2-40."

1834            ~~[(22)]~~ (24) In IRC, Section M1403.1, the characters "/ANCE" are deleted.

1835            ~~[(23)]~~ (25) IRC, Section [~~M1411.8~~] M1411.9, is deleted.

1836            ~~[(24)]~~ (26) In IRC, Section M1412.1, the characters "/ANCE" are deleted.

1837            ~~[(25)]~~ (27) In IRC, Section M1413.1, the characters "/ANCE" are deleted.

1838            Section 15. Section **15A-3-204** is amended to read:

1839 **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

1840 (1) In IRC, Section M1602.2, a new exception is added at the end of Item [6] § as  
1841 follows: "Exception: The discharge of return air from an accessory dwelling unit into another  
1842 dwelling unit, or into an accessory dwelling unit from another dwelling unit, is not prohibited."

1843 (2) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.  
1844 Fuel gas services shall be in an approved location and/or provided with structures designed to  
1845 protect the fuel gas meter and surrounding piping from physical damage, including falling,  
1846 moving, or migrating ice and snow. If an added structure is used, it must provide access for  
1847 service and comply with the IBC or the IRC."

1848 (3) IRC, Section P2503.2, is deleted and replaced with the following: "P2503.2  
1849 Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure  
1850 detector fire protection, double check detector fire protections, and spill-resistant vacuum  
1851 breaker backflow preventer assemblies shall be tested at the time of installation, immediately  
1852 after repairs or relocation and at least annually. The Utah Cross-Connection Control  
1853 Commission has adopted the field test procedures published by the Manual of Cross  
1854 Connection Control, Tenth Edition. This manual is published by the University of Southern  
1855 California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges  
1856 shall comply with ASSE 1064."

1857 (4) In IRC, Section P2503.8, the word "devices" is deleted and replaced with the word  
1858 "assemblies."

1859 Section 16. Section **15A-3-205** is amended to read:

1860 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1861 (1) IRC, Section P2602.1, is deleted and replaced with the following: "P2602.1  
1862 General. The water-distribution system of any building or premises where plumbing fixtures  
1863 are installed shall be connected to a public water supply. Where a potable public water supply  
1864 is not available, individual sources of potable water supply shall be utilized provided that the  
1865 source has been developed in accordance with Utah Code Sections [73-3-1](#), [73-3-3](#), and  
1866 [73-3-25](#), as administered by the Department of Natural Resources, Division of Water Rights. In  
1867 addition, the quality of the water shall be approved by the local health department having  
1868 jurisdiction. The source shall supply sufficient quantity of water to comply with the  
1869 requirements of this chapter.

1870 Every building in which plumbing fixtures are installed and all premises having  
1871 drainage piping shall be connected to a public sewer where the sewer is accessible and is  
1872 within 300 feet of the property line in accordance with Utah Code Section 10-8-38, or an  
1873 approved private sewage disposal system in accordance with Utah Administrative Code, Rule  
1874 R317-4, as administered by the Department of Environmental Quality, Division of Water  
1875 Quality.

1876 Exception: Sanitary drainage piping and systems that convey only the discharge from  
1877 bathubs, showers, lavatories, clothes washers, and laundry trays shall not be required to  
1878 connect to a public sewer or to a private sewage disposal system provided that the piping or  
1879 systems are connected to a system in accordance with Sections P2910 or P2911."

1880 (2) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water  
1881 supply. Where a potable public water supply is not available, individual sources of potable  
1882 water supply shall be utilized, provided that the source has been developed in accordance with  
1883 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural  
1884 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by  
1885 the local health department having jurisdiction."

1886 [~~(2)~~] (3) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required.  
1887 Every building in which plumbing fixtures are installed and all premises having drainage  
1888 piping shall be connected to a public sewer where the sewer is accessible and is within 300 feet  
1889 of the property line in accordance with Utah Code, Section 10-8-38; or an approved private  
1890 sewage disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317,  
1891 as administered by the Department of Environmental Quality, Division of Water Quality."

1892 [~~(3)~~] (4) In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are  
1893 deleted.

1894 [~~(4)~~] (5) In IRC, Section P2705, a new Item [~~6~~] 9 is added as follows: [~~"6~~] "9.  
1895 Lavatories. A lavatory shall not be set closer than 12 inches from its center to any side wall or  
1896 partition. A lavatory shall be provided with a clearance of 24 inches in width and 21 inches in  
1897 depth in front of the lavatory to any side wall, partition, or obstruction." Remaining item  
1898 numbers are renumbered accordingly.

1899 (6) In IRC, Section P2801.6.2, the following is added at the end of the section: "When  
1900 permitted by the code official, the pan drain may be directly connected to a soil stack, waste

1901 stack, or branch drain. The pan drain shall be individually trapped and vented in  
1902 Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap  
1903 shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type  
1904 floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1905 (7) A new IRC, Section P2801.6.3, is added as follows: "P2801.6.3 Pan designation. A  
1906 water heater pan shall be considered an emergency receptor designated to receive the discharge  
1907 of water from the water heater only and shall not receive the discharge from any other fixtures,  
1908 devises, or equipment."

1909 [~~(5)~~] (8) [In] IRC, Section P2801.8, [all words in the first sentence up to the word  
1910 "water" are] is deleted[-] and replaced with the following: "P2801.8 Water heater seismic  
1911 bracing. As a minimum requirement, water heaters shall be anchored or strapped to resist  
1912 horizontal displacement caused by earthquake motion. Strapping shall be at points within the  
1913 upper one third and lower one-third of the appliance's vertical dimensions.

1914 (9) In IRC, Section P2804.6.1, a new number 15 is added as follows: "15. Be installed  
1915 in accordance with the manufacturer's installation instructions, not to exceed 180 degrees in  
1916 directional changes."

1917 [~~(6)~~] (10) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow  
1918 assembly testing. [The premise owner or the premise owner's designee shall have backflow  
1919 prevention assemblies operation tested in accordance with administrative rules made by the  
1920 Drinking Water Board at the time of installation, repair, and relocation and at least on an  
1921 annual basis thereafter, or more frequently as required by the authority having jurisdiction.  
1922 Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The  
1923 assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the  
1924 Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the  
1925 Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle  
1926 Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for  
1927 backflow prevention assemblies will consist of any combination of two certifications,  
1928 laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO,  
1929 and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow  
1930 protection assemblies. Also see [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov) and rules made by the Drinking  
1931 Water Board."] Reduced pressure principle, double check, pressure vacuum breaker, reduced



1932 pressure detector fire protection double check detector fire protection and spill-resistant  
 1933 vacuum breaker backflow preventer assemblies shall be tested at the time of installation,  
 1934 immediately after repairs or relocation and at least annually. The Utah Cross Connection  
 1935 Control Commission has adopted the field test procedures published by the Manual of Cross  
 1936 Connection Control, Tenth Edition. This manual is published by the University of Southern  
 1937 California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges  
 1938 shall comply with ASSE 1064.

1939 [~~(7)~~] (11) In IRC, Section P2902.1, the following subsections are added as follows:

1940 [~~"P2902.1.1"] "P2902.1.2~~ P2902.1.2 General Installation Criteria.

1941 Assemblies shall not be installed more than five feet above the floor unless a permanent  
 1942 platform is installed. The assembly owner, where necessary, shall provide devices or structures  
 1943 to facilitate testing, repair, and maintenance, and to insure the safety of the backflow  
 1944 technician.

1945 [~~P2902.1.2"] P2902.1.2 Specific Installation Criteria.~~

1946 [~~P2902.1.2.1"] P2902.1.2 Reduced Pressure Principle Backflow Prevention Assembly.~~

1947 The reduced pressure principle backflow prevention assembly shall be installed as  
 1948 follows:

1949 a. The assembly may not be installed in a pit or below grade where the relief port could  
 1950 be submerged in water or where fumes could be present at the relief port discharge.

1951 b. The relief valve of the assembly shall not be directly connected to a waste disposal  
 1952 line, including a sanitary sewer, a storm drain, or a vent.

1953 c. The assembly shall be installed in a horizontal position only, unless listed or  
 1954 approved for vertical installation in accordance with Section 303.4 of the International  
 1955 Plumbing Code as amended in Utah Code, Subsection [15A-3-303\(1\)](#).

1956 d. The bottom of the assembly shall be installed a minimum of 12 inches above the  
 1957 floor or ground.

1958 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
 1959 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1960 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.

1961 A double check valve backflow prevention assembly shall be installed as follows:

1962 a. The assembly shall be installed in a horizontal position only, unless listed or

1963 approved for vertical installation.

1964 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or  
1965 floor.

1966 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1967 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1968 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of  
1969 clearance between all sides of the vault, including the floor and roof or ceiling, with adequate  
1970 room for testing and maintenance.

1971 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum  
1972 Breaker Assembly.

1973 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker  
1974 assembly shall be installed as follows:

1975 a. The assembly shall not be installed in an area that could be subject to backpressure or  
1976 back drainage conditions.

1977 b. The assembly shall be installed a minimum of 12 inches above all downstream  
1978 piping and the highest point of use.

1979 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle,  
1980 and shall be readily accessible for testing, repair, and maintenance.

1981 d. The assembly shall not be installed below ground, in a vault, or in a pit.

1982 e. The assembly shall be installed in a vertical position."

1983 [~~(8) In IRC, Table 2903.2, the following changes are made in the column titled~~  
1984 ~~"MAXIMUM FLOW RATE OR QUANTITY":]~~

1985 [~~(a) In the row titled "Lavatory faucet" the text is deleted and replaced with "1.5 gpm at~~  
1986 ~~60 psi":]~~

1987 [~~(b) In the row titled "Shower head" the text is deleted and replaced with "2 gpm at 80~~  
1988 ~~psi":]~~

1989 [~~(9)~~ (12) In IRC, Section P2903.3, the words "public water main or an" are deleted  
1990 and the following sentence is added at the end: "A water pressure booster pump may not be  
1991 connected to a public water main unless allowed by Utah Administrative Code, Rule  
1992 R309-540."

1993 (13) In IRC, Section 2903.5, at the beginning of the second sentence, insert "If

1994 installed,".

1995 ~~[(+10)]~~ (14) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with  
 1996 the following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve,  
 1997 shutoff valves shall be required on each fixture supply pipe to each plumbing appliance and to  
 1998 each plumbing fixture other than bathtubs and showers."

1999 ~~[(+11)]~~ (15) IRC, Section P2910.5, is deleted and replaced with the following:

2000 "P2910.5 Potable water connections.

2001 ~~[When a potable water system is connected to a nonpotable water system, the potable~~  
 2002 ~~water system shall be protected against backflow by a reduced pressure backflow prevention~~  
 2003 ~~assembly or an air gap installed in accordance with Section 2901.]"~~ A system that utilizes  
 2004 nonpotable water (i.e., pressurized irrigation) and installs a connection to the potable water  
 2005 system for backup must install a Reduced Pressure Principle Assembly (RP) directly  
 2006 downstream of the potable water connection (Stop and Waste) and install a "dual source  
 2007 connection" directly downstream from the (RP) installed so that either the potable water system  
 2008 or the nonpotable water is connected at any time to prevent a direct Cross Connection and to  
 2009 protect the potable water from any potential hazard from the nonpotable water system. See  
 2010 Utah Code Section [19-4-112](#). Note: RP must be tested within 10 days of installation and  
 2011 annually whether the drinking water is used or not."

2012 ~~[(+12)]~~ (16) IRC, Section P2910.9.5, is deleted and replaced with the following:

2013 "P2910.9.5 Makeup water.

2014 Where an uninterrupted nonpotable water supply is required for the intended  
 2015 application, potable or reclaimed water shall be provided as a source of makeup water for the  
 2016 storage tank. The makeup water supply shall be protected against backflow by means of an air  
 2017 gap not less than 4 inches (102 millimeters) above the overflow or by a reduced pressure  
 2018 backflow prevention assembly installed in accordance with Section 2902."

2019 ~~[(+13)]~~ (17) In IRC, Section P2911.12.4, the following words are deleted: "and  
 2020 backwater valves."

2021 ~~[(+14)]~~ (18) In IRC, Section P2912.15.6, the following words are deleted: "and  
 2022 backwater valves."

2023 ~~[(+15)]~~ (19) In IRC, Section P3007.3.3.1, the words "stainless steel, cast iron,  
 2024 galvanized steel, brass" are added after the word "PE."

2025           (20) IRC, Section P3009, is deleted and replaced with the following:  
2026           [~~"P3009 Connected to nonpotable water from on-site water reuse systems."~~]  
2027           [~~Nonpotable systems utilized for subsurface irrigation for single-family residences shall~~  
2028 ~~comply with the requirements of R317-401, UAC, Graywater Systems."~~] "P3009 Graywater  
2029 soil absorption systems: Graywater recycling systems utilized for subsurface irrigation for  
2030 single-family residences shall comply with the requirements of Utah Administrative Code,  
2031 R317-401, Graywater Systems. Graywater recycling systems utilized for subsurface irrigation  
2032 for other occupancies shall comply with Utah Administrative Code, R317-3, Design  
2033 Requirements for Wastewater Collection, Treatment, and Disposal Systems, and Utah  
2034 Administrative Code, R317-4, Onsite Wastewater Systems."

2035           [~~(16)~~] (21) In IRC, Section [~~P3103.6~~] P3101.4, the following sentence is added at the  
2036 end of the paragraph: "Vents extending through the wall shall terminate not less than 12 inches  
2037 from the wall with an elbow pointing downward."

2038           [~~(17)~~] (22) In IRC, Section P3104.4, the following sentence is added at the end of the  
2039 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
2040 and floor sink installations when installed below grade in accordance with Chapter 30, and  
2041 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

2042           Section 17. Section **15A-3-206** is amended to read:

2043           **15A-3-206. Amendments to Chapters 36, 37, 39, and 44 and Appendix F of IRC.**

2044           (1) In IRC, Section E3601.6.2, a new exception is added as follows: "Exception: An  
2045 occupant of an accessory dwelling unit is not required to have access to the disconnect serving  
2046 the dwelling unit in which they reside."

2047           (2) [~~In IRC, Section E3705.4.5, the following words are added after the word~~  
2048 ~~"assemblies": "with ungrounded conductors 10 AWG and smaller".]~~ IRC, Section E3606.5, is  
2049 deleted.

2050           (3) [~~In IRC, Section E3901.4.5, the last sentence in the exception is deleted and~~  
2051 ~~replaced with the following: "Receptacles mounted below the countertop in accordance with~~  
2052 ~~this exception shall not be located more than 14 inches from the bottom leading edge of the~~  
2053 ~~countertop."]~~ IRC, Section E3901.4.2, is deleted and replaced with the following:

2054           "E3901.4.2 Island and Peninsular Countertops and Work Spaces. Receptacle outlets, if  
2055 installed to serve an island or peninsular countertop or work surface, shall be installed in

2056 accordance with E3901.4.3. If a receptacle outlet is not provided to serve an island or  
2057 peninsular countertop or work surface, provisions shall be provided at the island or peninsula  
2058 for future addition of a receptacle outlet to serve the island or peninsular countertop or work  
2059 surface.

2060 [~~(4) In IRC, Section E3901.9, the following exception is added:~~]

2061 [~~"Exception: Receptacles or other outlets adjacent to the exterior walls of the garage,~~  
2062 ~~outlets adjacent to an exterior wall of the garage, or outlets in a storage room with entry from~~  
2063 ~~the garage may be connected to the garage branch circuit."~~]

2064 [(5)] (4) IRC, Section E3901.4.3, is deleted and replaced with the following:

2065 "E3901.4.3 Receptacle Outlet Location. Receptacle outlets shall be located in one or  
2066 more of the following:

2067 1. On or above, but not more than 20 inches (508 mm) above a countertop or work  
2068 surface.

2069 2. In a countertop using receptacle outlet assemblies listed for use in countertops.

2070 3. In a work surface using receptacle outlet assemblies listed for use in work surface or  
2071 listed for use in countertops.

2072 Receptacle outlets rendered not readily accessible by appliances fastened in place,  
2073 appliance garages, sinks, or range tops as covered in the exception to Section E3901.4.1 or  
2074 appliances occupying assigned spaces shall not be considered as these required outlets.

2075 4. Under the countertop not more than 14" from the bottom leading edge of the  
2076 countertop.

2077 (5) In IRC, Section 3902.1, after the word "125-volt" add "single phase 15 and 20  
2078 ampere" and strike the words "through 250 volt."

2079 (6) In IRC, Section 3902.2, after the word "125-volt" add "single phase 15 and 20  
2080 ampere" and strike the words "through 250 volt."

2081 (7) In IRC, Section 3902.3, after the word "125-volt" add "single phase 15 and 20  
2082 ampere" and strike the words "through 250 volt."

2083 (8) In IRC, Section 3902.4, after the word "125-volt" add "single phase 15 and 20  
2084 ampere" and strike the words "through 250 volt."

2085 (9) In IRC, Section 3902.5, after the word "125-volt" add the words "single phase 15  
2086 and 20 ampere in unfinished portions of the basement shall have ground-fault

2087 circuit-interrupter protection for personnel" and delete the rest of the section.

2088 (10) In IRC, Section 3902.6, after the word "125-volt" add "single phase 15 and 20  
2089 ampere" and strike the words "through 250 volt."

2090 (11) In IRC, Section 3902.7, after the word "125-volt" add "single phase 15 and 20  
2091 ampere" and strike the words "through 250 volt."

2092 (12) In IRC, Section 3902.8, after the word "125-volt" add "single phase 15 and 20  
2093 ampere" and strike the words "through 250 volt."

2094 (13) In IRC, Section 3902.9, after the word "125-volt" add "single phase 15 and 20  
2095 ampere" and strike the words "through 250 volt."

2096 (14) IRC, Section 3902.10, is deleted.

2097 (15) In IRC, Section 3902.12, after the word "125-volt" add "single phase 15 and 20  
2098 ampere" and strike the words "through 250 volt."

2099 (16) In IRC, Section 3902.13, after the word "125-volt" add "single phase 15 and 20  
2100 ampere" and strike the words "through 250 volt."

2101 (17) IRC, Section E3902.16 is deleted.

2102 ~~[(6)]~~ (18) [H] IRC Section E3902.17[:] is deleted.

2103 ~~[(a) following the word "Exception" the number "1." is added; and]~~

2104 ~~[(b) at the end of the section, the following sentences are added:]~~

2105 ~~["2. This section does not apply for a simple move or an extension of a branch circuit or~~  
2106 ~~an outlet which does not significantly increase the existing electrical load. This exception does~~  
2107 ~~not include changes involving remodeling or additions to a residence."]~~

2108 ~~[(7)]~~ (19) IRC, Section E3902.18 is deleted.

2109 (20) IRC, Chapter 44, is amended by deleting the standard for "ANCE."

2110 ~~[(8)]~~ (21) In IRC, Chapter 44, the standard for ASHRAE is amended by changing  
2111 "34-2013" to "34-2019."

2112 ~~[(9)]~~ (22) In IRC, Chapter 44, the standard for CSA, is amended by changing the:

2113 (a) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA  
2114 60335-2-40-2019"; and

2115 (b) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
2116 Requirements for Motor-Compressors" to "Standard for Household and Similar Electrical  
2117 Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air Conditioners and

2118 Dehumidifiers-3rd Edition."

2119 ~~[(+0)]~~ (23) In IRC, Chapter 44, the standard for UL, is amended by changing the:

2120 (a) standard reference number "1995-2011" to "1995-2015";

2121 (b) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA

2122 60335-2-40-2019"; and

2123 (c) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular

2124 Requirements for Motor-Compressors" to "Standard for Household and Similar Electrical

2125 Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air Conditioners and

2126 Dehumidifiers-3rd Edition."

2127 ~~[(+1)]~~ (24) 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"

2130 ~~[(+2)]~~ (25) In IRC, Chapter 44, is amended by adding the following reference standard:

2131 "UL 9540-20: Energy Storage Systems and Equipment; R327.1, R327.2 and R327.6."

2132 ~~[(+3)]~~ (26) (a) When passive radon controls or portions thereof are voluntarily

2133 installed, the voluntary installation shall comply with Appendix F of the IRC.

2134 (b) An additional inspection of a voluntary installation described in Subsection ~~[(+9)](a)~~

2135 ~~(22)(a)~~ is not required.

2136 Section 18. Section **15A-3-302** is amended to read:

2137 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

2138 ~~[(+1) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is~~

2139 ~~deleted.]~~

2140 ~~[(+2)]~~ (1) In IPC, Section 202, the following definition is added: "Utah Certified

2141 Backflow Preventer Assembly Tester. A person who has shown competence to test Backflow

2142 prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code,

2143 Subsection 19-4-104(4) and Utah Administrative Code, R309-305."

2144 ~~[(+3) In IPC, Section 202, the following definition is added: "Contamination (High~~

2145 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the  
2146 public health through poisoning or through the spread of disease by sewage, industrial fluids or  
2147 waste."]

2148 [(4)] (2) In IPC, Section 202, the definition for "Cross Connection" is deleted and  
2149 replaced with the following: "Cross Connection. Any physical connection or potential  
2150 connection or arrangement between two otherwise separate piping systems, one of which  
2151 contains potable water and the other either water of unknown or questionable safety or steam,  
2152 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
2153 with the direction of flow depending on the pressure differential between the two systems (see  
2154 "Backflow")."

2155 [(5)] (3) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A  
2156 manufactured or field fabricated trap with a liquid seal of 4" or larger."

2157 [(6)] (4) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is  
2158 deleted and replaced with the following:

2159 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids [~~having a Gosselin rating~~  
2160 ~~of 1~~], including propylene glycol[;] and mineral oil."

2161 [(7)] (5) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is  
2162 deleted and replaced with the following:

2163 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any  
2164 fluid that is not an essentially nontoxic transfer fluid under this code."

2165 [(8) In IPC, Section 202, the following definition is added: "High Hazard. See  
2166 Contamination."]

2167 [(9) In IPC, Section 202, the following definition is added: "Low Hazard. See  
2168 Pollution."]

2169 [(10)] (6) In IPC, Section 202, the following definition is added: "Motor Vehicle Waste  
2170 Disposal Well. An injection well that discharges to the subsurface by way of a floor drain,  
2171 septic system, French drain, dry well, or similar system that receives or has received fluid from  
2172 a facility engaged in vehicular repair or maintenance activities, including an auto body repair  
2173 shop, automotive repair shop, new and used car dealership, speciality repair shop, or any other  
2174 facility that does any vehicular repair work. A motor vehicle waste disposal well is subject to  
2175 rulemaking under Section 19-5-104 regarding underground injection."



2176 ~~[(11) In IPC, Section 202, the following definition is added: "Pollution (Low Hazard)-~~  
 2177 ~~An impairment of the quality of the potable water to a degree that does not create a hazard to~~  
 2178 ~~the public health but that does adversely and unreasonably affect the aesthetic qualities of such~~  
 2179 ~~potable water for domestic use."]~~

2180 [(12)] (7) In IPC, Section 202, the definition for "Potable Water" is deleted and  
 2181 replaced with the following: "Potable Water. Water free from impurities present in amounts  
 2182 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,  
 2183 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and  
 2184 the regulations of the public health authority having jurisdiction."

2185 (8) In IPC, Section 202, the following definition is added for Dual Source Connection:  
 2186 "Dual Source Connection. A pipe that is installed so that either the nonpotable (i.e. secondary)  
 2187 irrigation water or the potable water is connected to a pressurized irrigation system at one time,  
 2188 but not both at the same time; or a pipe that is installed so that either the potable water or  
 2189 private well water is connected to a residence at one time, not both at the same time. The  
 2190 potable water supply line shall be protected by a reduced pressure backflow preventer."

2191 Section 19. Section **15A-3-303** is amended to read:

2192 **15A-3-303. Amendments to Chapter 3 of IPC.**

2193 (1) In IPC, Section 303.4, the following exception is added:

2194 "Exception: Third-party certification for backflow prevention assemblies will consist of  
 2195 any combination of two certifications, laboratory or field. Acceptable third party laboratory  
 2196 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently  
 2197 provides the only field testing of backflow protection assemblies. Also see  
 2198 [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov) and Division of Drinking Water Rule, Utah Administrative Code,  
 2199 R309-105-12(4)."

2200 (2) IPC, Section 311.1, is deleted.

2201 (3) In IPC, Section 312.3, the following is added at the end of the paragraph:

2202 "Where water is not available at the construction site or where freezing conditions limit  
 2203 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be  
 2204 tested with air. The following procedures shall be followed:

2205 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and  
 2206 can explode, causing serious injury or death.

2207           2. Contractor assumes all liability for injury or death to persons or damage to property  
2208 or for claims for labor and/or material arising from any alleged failure of the system during  
2209 testing with air or compressed gasses.

2210           3. Proper personal protective equipment, including safety eyewear and protective  
2211 headgear, should be worn by all individuals in any area where an air or gas test is being  
2212 conducted.

2213           4. Contractor shall take all precautions necessary to limit the pressure within the plastic  
2214 piping.

2215           5. No drain and vent system shall be pressurized in excess of 6 psi as measured by  
2216 accurate gauges graduated to no more than three times the test pressure.

2217           6. The pressure gauge shall be monitored during the test period, which should not  
2218 exceed 15 minutes.

2219           7. At the conclusion of the test, the system shall be depressurized gradually, all trapped  
2220 air or gases should be vented, and test balls and plugs should be removed with caution."

2221           (4) In IPC, Section 312.5, the following is added at the end of the paragraph:

2222           "Where water is not available at the construction site or where freezing conditions limit  
2223 the use of water on the construction site, plastic water pipes may be permitted to be tested with  
2224 air. The following procedures shall be followed:

2225           1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and  
2226 can explode, causing serious injury or death.

2227           2. Contractor assumes all liability for injury or death to persons or damage to property  
2228 or for claims for labor and/or material arising from any alleged failure of the system during  
2229 testing with air or compressed gasses.

2230           3. Proper personal protective equipment, including safety eyewear and protective  
2231 headgear, should be worn by all individuals in any area where an air or gas test is being  
2232 conducted.

2233           4. Contractor shall take all precautions necessary to limit the pressure within the plastic  
2234 piping.

2235           5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more  
2236 than 80 psi as measured by accurate gauges graduated to no more than three times the test  
2237 pressure.

2238 6. The pressure gauge shall be monitored during the test period, which should not  
2239 exceed 15 minutes.

2240 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped  
2241 air or gases should be vented, and test balls and plugs should be removed with caution."

2242 (5) IPC, Section 312.10.2, is deleted and replaced with the following:

2243 "312.10.2 Testing. Reduced pressure principle, double check, pressure vacuum breaker,  
2244 reduced pressure detector fire protection, double check detector fire protection, and  
2245 spill-resistant vacuum breaker backflow preventer assemblies shall be tested at the time of  
2246 installation or within 10 days of being placed into service, immediately after repairs or  
2247 relocation and at least annually. The Utah Cross Connection Control Commission has adopted  
2248 the field test procedures published by the Manual of Cross-Connection Control, Tenth Edition.  
2249 This manual is published by the University of Southern California's Foundation for  
2250 Cross-Connection Control and Hydraulic Research. Test gauges shall comply with ASSE  
2251 1064."

2252 (6) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.  
2253 Testing shall be performed by a Utah Certified Backflow [~~Preventer~~] Assembly Tester in  
2254 accordance with Utah Administrative Code, R309-305."

2255 Section 20. Section **15A-3-304** is amended to read:

2256 **15A-3-304. Amendments to Chapter 4 of IPC.**

2257 (1) In IPC, Table 403.1, the following changes are made:

2258 (a) In row number "3", for in the field for "OTHER", a new footnote h is added.

2259 (b) In row number "5", for "Adult day care and child day care" occupancy, in the field  
2260 for "OTHER", a new footnote h is added.

2261 (c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
2262 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
2263 accordance with Utah Administrative Code, R392-302 Design, Construction and Operation of  
2264 Public Pools."

2265 (d) A new footnote g is added as follows: "FOOTNOTE: g: When provided, in public  
2266 toilet facilities, there shall be an equal number of diaper changing facilities in male toilet rooms  
2267 and female toilet rooms. Diaper changing facilities shall meet the requirements of ASTM  
2268 F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper Changing

2269 Tables for Commercial Use."

2270 (e) A new footnote h is added to the table as follows: "FOOTNOTE h: Non-residential  
2271 child care facilities shall comply with the additional sink requirements of Utah Administrative  
2272 Code, R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care  
2273 Programs, and R381-100-9, Child Care Centers."

2274 (2) In IPC, Section 405.3.4, the following sentence is added after the first sentence:  
2275 "For facilities designed for use by all genders in the same room, the partitions of the stalls shall  
2276 extend from the floor to the ceiling."

2277 (3) In IPC, Section 405.3.5, the following sentence is added at the end of the first  
2278 paragraph: "For facilities designed for use by all genders in the same room, the partitions of the  
2279 stalls shall extend from the floor to the ceiling."

2280 (4) A new IPC, Section 406.3, is added as follows: "406.3 Automatic clothes washer  
2281 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in  
2282 accordance with Section 504.7."

2283 [~~(3)~~] (5) A new IPC, Section 413.5, is added as follows: "413.5 Public toilet rooms.  
2284 All public toilet rooms shall be equipped with at least one floor drain."

2285 [~~(4)~~] (6) A new IPC, Section 413.6, is added as follows: "Prohibition of motor vehicle  
2286 waste disposal wells. New and existing motor vehicle waste disposal wells are prohibited. A  
2287 motor vehicle waste disposal well associated with a single family residence is not subject to  
2288 this prohibition."

2289 [~~(5)~~] (7) IPC, Section 423.3, is deleted.

2290 Section 21. Section **15A-3-306** is amended to read:

2291 **15A-3-306. Amendments to Chapter 6 of IPC.**

2292 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual  
2293 water supply. Where a potable public water supply is not available, individual sources of  
2294 potable water supply shall be utilized provided that the source has been developed in  
2295 accordance with Utah Code, Sections [73-3-1](#), [73-3-3](#), and [73-3-25](#), as administered by the  
2296 Department of Natural Resources, Division of Water Rights. In addition, the quality of the  
2297 water shall be approved by the local health department having jurisdiction. The source shall  
2298 supply sufficient quantity of water to comply with the requirements of this chapter."

2299 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are

2300 deleted.

2301 (3) In IPC, Table 604.4, the following changes are made in the column titled  
2302 "MAXIMUM FLOW RATE OR QUANTITY":

2303 (a) In the row titled "Lavatory, private" the text is deleted and replaced with "1.5 gpm  
2304 at 60 psi".

2305 (b) In the row titled "Shower head" the text is deleted and replaced with "2 gpm at 80  
2306 psi".

2307 (c) In the row titled "Urinal" the text is deleted and replaced with "0.5 gallon per  
2308 flushing cycle".

2309 (4) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated  
2310 metering faucets for food service establishments. Self closing or manually operated metering  
2311 faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the  
2312 faucet."

2313 (5) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water  
2314 pressure booster systems. Water pressure booster systems shall be provided as required by  
2315 Section 606.5.1 through 606.5.11."

2316 (6) In IPC, Section 606.5.1, the words "public water main or" are deleted.

2317 (7) A new IPC, Section 606.5.11, is added as follows: "606.5.11 [~~Prohibited~~  
2318 ~~installation. In no case shall a booster pump be allowed that will lower the pressure in the~~  
2319 ~~public main to less than the minimum water pressure specified in Utah Administrative Code~~  
2320 ~~R309-105-9.]"~~ Water pressure booster pumps connected to a public water main. A water  
2321 pressure booster pump shall not be connected to a public water main unless allowed by Utah  
2322 Administrative Code, Rule R309-540."

2323 [~~(7)~~] (8) In IPC, Section 608.1, the words "and pollution" are added after the word  
2324 "contamination."

2325 [~~(8)~~] (9) In IPC, Section 608.1, the following subsections are added as follows:  
2326 "608.1.1 General Installation Criteria.

2327 An assembly shall not be installed more than five feet above the floor unless a  
2328 permanent platform is installed. The assembly owner, where necessary, shall provide devices  
2329 or structures to facilitate testing, repair, and maintenance and to insure the safety of the  
2330 backflow technician.

2331 608.1.2 Specific Installation Criteria.

2332 608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.

2333 A reduced pressure principle backflow prevention assembly shall be installed as  
2334 follows:

2335 a. The assembly shall not be installed in a pit or below grade where the relief port could  
2336 be submerged in water or where fumes could be present at the relief port discharge.

2337 b. The relief valve of the assembly shall not be directly connected to a waste disposal  
2338 line, including a sanitary sewer, storm drain, or vent.

2339 c. The assembly shall be installed in a horizontal position, unless the assembly is listed  
2340 or approved for vertical installation in accordance with Section 303.4.

2341 d. The bottom of each assembly shall be installed a minimum of 12 inches above the  
2342 ground or the floor.

2343 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
2344 obstacle, and shall be readily accessible for testing, repair, and maintenance.

2345 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

2346 A double check valve backflow prevention assembly shall be installed as follows:

2347 a. The assembly shall be installed in a horizontal position unless the assembly is listed  
2348 or approved for vertical installation.

2349 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the  
2350 floor.

2351 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
2352 obstacle, and shall be readily accessible for testing, repair, and maintenance.

2353 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of  
2354 clearance around all sides of the vault, including the floor and roof or ceiling, with adequate  
2355 room for testing and maintenance.

2356 608.1.2.3 Pressure Vacuum Breaker Assembly and Spill Resistant Pressure Vacuum  
2357 Breaker Assembly.

2358 A pressure vacuum breaker assembly and spill resistant pressure vacuum breaker  
2359 assembly shall be installed as follows:

2360 a. The assembly shall not be installed in an area that could be subject to backpressure or  
2361 back drainage conditions.

2362 b. The assembly shall be installed a minimum of 12 inches above all downstream  
2363 piping and the highest point of use.

2364 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle,  
2365 and shall be readily accessible for testing, repair, and maintenance.

2366 d. The assembly shall not be installed below ground or in a vault or pit.

2367 e. The assembly shall be installed in a vertical position."

2368 [~~(9)~~] (10) In IPC, Section 608.3, the word "and" before the word "contamination" is  
2369 deleted and replaced with a comma and the words " or pollution" are added after the word  
2370 "contamination" in the first sentence.

2371 [~~(10)~~] (11) In IPC, Section 608.6, the words "with the potential to create a condition of  
2372 either contamination or pollution or" are added after the word "substances."

2373 [~~(11)~~] (12) In IPC, Section 608.7, the following sentence is added at the end of the  
2374 paragraph: "Any connection between potable water piping and sewer-connected waste shall be  
2375 protected by an air gap in accordance with Section 608.14.1."

2376 [~~(12)~~] (13) IPC, Section 608.8, is deleted and replaced with the following: " 608.8 Stop  
2377 and Waste Valves installed below grade. Combination stop-and-waste valves shall be  
2378 permitted to be installed underground or below grade. Freeze proof yard hydrants that drain  
2379 the riser into the ground are considered to be stop-and-waste valves and shall be permitted. A  
2380 stop-and-waste valve shall be installed in accordance with a manufacturer's recommended  
2381 installation instructions."

2382 [~~(13)~~] (14) IPC, Section 608.14.3, is deleted and replaced with the following: "  
2383 608.14.3 Backflow preventer with intermediate atmospheric vent. Backflow preventers with  
2384 intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These  
2385 devices shall be permitted to be installed on residential boilers, without chemical treatment,  
2386 where subject to continuous pressure conditions, and humidifiers in accordance with Section  
2387 608.17.10. The relief opening shall discharge by air gap and shall be prevented from being  
2388 submerged."

2389 [~~(14)~~] (15) IPC, Section 608.14.4, is deleted.

2390 [~~(15)~~] (16) IPC, Section 608.16.3, is deleted and replaced with the following: "  
2391 608.16.3 Protection by a backflow preventer with intermediate atmospheric vent. Connections  
2392 to residential boilers only, without chemical treatment, and humidifiers shall be protected by a

2393 backflow preventer with an intermediate atmospheric vent."

2394 [~~(16)~~] (17) IPC, Section 608.16.4, is deleted and replaced with the following: "  
2395 608.16.4 Protection by a vacuum breaker. Openings and outlets shall be protected by  
2396 atmospheric-type or pressure-type vacuum breakers. Vacuum breakers shall not be installed  
2397 under exhaust hoods or similar locations that will contain toxic fumes or vapors. Fill valves  
2398 shall be set in accordance with Section [~~425.3.1~~] 415.3.1. Atmospheric Vacuum Breakers -  
2399 The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152  
2400 mm) above the flood level rim of the fixture or device. Pipe-applied vacuum breakers shall be  
2401 installed at the highest point, but not less than 6 inches (152 mm) above the flood level rim of  
2402 the fixture, receptor, or device served. No valves shall be installed downstream of the  
2403 atmospheric vacuum breaker. The atmospheric vacuum breaker shall not be installed where it  
2404 may be subjected to continuous pressure for more than 12 consecutive hours at any time.  
2405 Pressure Vacuum Breaker - The critical level of the pressure vacuum breaker shall be set a  
2406 minimum of 12 inches (304 mm) above the flood level of the fixture [~~or~~] device and above all  
2407 downstream piping and the highest point of use."

2408 [~~(17)~~] (18) In IPC, Section 608.16.4.2, the following is added after the first sentence:  
2409 "Add-on-backflow prevention devices shall be non-removable. In climates where freezing  
2410 temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow  
2411 preventer shall be used."

2412 [~~(18)~~] (19) In IPC, Section 608.17.1.2, the words "or ASSE 1024" are deleted.

2413 [~~(19)~~] (20) IPC, Section 608.17.2, is deleted and replaced as follows: " 608.17.2  
2414 Connections to boilers. The potable supply to a boiler shall be protected by an air gap or a  
2415 reduced pressure principle backflow preventer, complying with ASSE 1013, CSA B64.4 or  
2416 AWWA C511.

2417 Exception: The potable supply to a residential boiler without chemical treatment may  
2418 be equipped with a backflow preventer with an intermediate atmospheric vent complying with  
2419 ASSE 1012, ASSE 1081.1, or CSA CAN/CSA-B64.3."

2420 [~~(20)~~] (21) In IPC, Section 608.17.4.1, a new exception is added as follows:  
2421 "Exception: All class 1 and 2 systems containing chemical additives consisting of strictly  
2422 glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against  
2423 backflow with a double check valve assembly or double check valve detector assembly. Such



2424 systems shall include written certification of the chemical additives at the time of original  
2425 installation and service or maintenance."

2426 [~~(21)~~] (22) IPC, Section 608.17.7, is deleted and replaced with the following: "  
2427 608.17.7 Chemical dispensers. Where chemical dispensers connect to the water distribution  
2428 system, the water supply system shall be protected against backflow in accordance with Section  
2429 608.14.1, Section 608.14.2, Section 608.14.5, Section 608.14.6 or Section 608.14.8.  
2430 Installation shall be in accordance with Section 608.1.2. Chemical dispensers shall connect to a  
2431 separate dedicated water supply line, and not [~~a sink faucet~~] downstream of an atmospheric  
2432 vacuum breaker."

2433 [~~(22)~~] (23) IPC, Section 608.17.8, is deleted and replaced with the following: "  
2434 608.17.8 Portable cleaning equipment. Where the portable cleaning equipment connects to the  
2435 water distribution system, the water supply system shall be protected against backflow in  
2436 accordance with Section 608.14.1 or Section 608.14.2."

2437 [~~(23)~~] (24) A new IPC, Section 608.17.11, is added as follows: " 608.17.11 Automatic  
2438 and coin operated car washes. The water supply to an automatic or coin operated car wash  
2439 shall be protected in accordance with [~~Section 608.14.1 or~~] Section 608.14.2."

2440 [~~(24)~~] (25) IPC, Section 608.18, is deleted and replaced with the following: " 608.18  
2441 Protection of individual water supplies. See Section 602.3 for requirements."

2442 Section 22. Section **15A-3-309** is amended to read:

2443 **15A-3-309. Amendments to Chapter 9 of IPC.**

2444 (1) In IPC, Section [~~903.1~~] 903.1.1, when the number of inches is to be specified, "12  
2445 inches (304.8mm)" is inserted.

2446 (2) In IPC, a new Section [~~903.6, the following sentence is added at the end of the~~  
2447 ~~paragraph:~~] 903.7 is added as follows: "903.7 Extension through a wall. Vents extending  
2448 through the wall shall terminate not less than 12 inches from the wall with an elbow pointing  
2449 downward."

2450 (3) In IPC, Section 905.4, the following sentence is added at the end of the paragraph:  
2451 "Horizontal dry vents below the flood level rim shall be permitted for floor drain, floor sink,  
2452 and bath tub installations when installed in accordance with Sections 702.2, 905.2 and 905.3  
2453 and provided with a wall clean out."

2454 Section 23. Section **15A-3-310** is amended to read:

2455 **15A-3-310. Amendments to Chapter 10 of IPC.**2456 (1) In IPC, a new Section 1002.4.1.6 is added as follows: "1002.4.1.6 Deep Seal Trap."

2457 (2) In IPC, Section 1003.3.8, the word "gravity" is inserted before the word "grease."

2458 Section 24. Section **15A-3-313** is amended to read:2459 **15A-3-313. Amendments to Chapter 13 of IPC.**

2460 (1) A new IPC, Section 1301.4.1, is added as follows:

2461 "1301.4.1 Recording.

2462 The existence of a nonpotable water system shall be recorded on the deed of ownership  
2463 for the property. The certificate of occupancy shall not be issued until the documentation for  
2464 the recording required under this section is completed by the property owner."

2465 (2) IPC, Section 1301.5, is deleted and replaced with the following:

2466 "1301.5 Potable water connections.

2467 Where a potable water system is connected to a nonpotable water system, the potable  
2468 water supply shall be protected against backflow by a reduced pressure backflow prevention  
2469 assembly or an air gap installed in accordance with Section 608."2470 (3) In IPC, a new Section 1301.5.1 is added as follows: "1301.5.1 Potable water  
2471 connections. A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a  
2472 connection to the potable water system for backup must install a Reduced Pressure Principle  
2473 Assembly (RP) directly downstream of the potable water connection (Stop and Waste) and  
2474 install a dual source connection directly downstream from the (RP) installed so that either the  
2475 potable water system or the nonpotable water is connected at any time to prevent a direct Cross  
2476 Connection and to protect the potable water from any potential hazard from the nonpotable  
2477 water system. See Utah Code Section [19-4-112](#). Note: RP must be tested within 10 days of  
2478 installation and annually whether the drinking water is used or not."

2479 (4) IPC, Section 1301.9.4, is deleted and replaced with the following:

2480 " 1301.9.4 Makeup water.

2481 Where an uninterrupted supply is required for the intended application, potable or  
2482 reclaimed water shall be provided as a source of makeup water for the storage tank. The  
2483 makeup water supply shall be protected against backflow by a reduced pressure backflow  
2484 prevention assembly or an air gap installed in accordance with Section 608. A full-open valve  
2485 located on the makeup water supply line to the storage tank shall be provided. Inlets to the

2486 storage tank shall be controlled by fill valves or other automatic supply valves installed to  
 2487 prevent the tank from overflowing and to prevent the water level from dropping below a  
 2488 predetermined point. Where makeup water is provided, the water level shall not be permitted  
 2489 to drop below the source water inlet or the intake of any attached pump."

2490 [(4)] (5) IPC, Section 1302.12.4, is deleted and replaced with the following:

2491 "1302.12.4 Inspection and testing of backflow prevention assemblies.

2492 Testing of a backflow preventer shall be conducted in accordance with Sections  
 2493 312.10.1, 312.10.2, and 312.10.3."

2494 [(5)] (6) IPC, Section 1303.15.6, is deleted and replaced with the following:

2495 "1303.15.6 Inspection and testing of backflow prevention assemblies.

2496 Testing of a backflow prevention assembly shall be conducted in accordance with  
 2497 Sections 312.10.1, 312.10.2, and 312.10.3."

2498 [(6)] (7) IPC, Section 1304.4.2, is deleted and replaced with the following:

2499 "1304.4.2 Inspection and testing of backflow prevention assemblies.

2500 Testing of a backflow preventer or backwater valve shall be conducted in accordance  
 2501 with Sections 312.10.1, 312.10.2, and 312.10.3."

2502 Section 25. Section **15A-3-315** is amended to read:

2503 **15A-3-315. Amendments to Chapter 15 of IPC.**

2504 (1) In IPC, Chapter 15, the following reference standards are deleted: ASSE  
 2505 5013-2015, ASSE 5015-2015, ASSE 5020-2015, ASSE 5047-2015, ASSE 5048-2015, ASSE  
 2506 5052-98, ASSE 5056-2015, CSA B64.10-17, and CSA B64.10.1-17.

2507 (2) In IPC, Chapter 15, the following referenced standard is added:

"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	[ <del>Table 608.1</del> ] <u>Section 312.10.2</u> "

2510 Section 26. Section **15A-3-402** is amended to read:

2511 **15A-3-402. Amendments to Chapters 1 through 5 of IMC.**

2512 (1) In IMC, Table 403.3.1.1, note h is deleted and replaced with the following:

2513 "h. 1. A nail salon shall provide each manicure station where a nail technician files or  
2514 shapes an acrylic nail, as defined by rule by the Division of Professional Licensing, in  
2515 accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, with:

2516 a. a source capture system equipped with, at minimum, a MERV 8 particulate filter and  
2517 an activated carbon filter that is capable of filtering and recirculating air to inside space at a  
2518 rate not less than 50 cfm per station; or

2519 b. a source capture system capable of exhausting not less than 50 cfm per station.

2520 c. A nail salon that complies with Note h. 1a or h. 1b is not required to comply with the  
2521 labeling, listing, or testing requirements described in International Mechanical Code sections  
2522 301.7 or 301.8.

2523 2. For a source capture system described in paragraph 1, the source capture system  
2524 inlets for exhausting or recirculating air shall be located in accordance with Section 502.20.

2525 3. Where one or more exhausting source capture systems described in paragraph 1  
2526 operate continuously during occupancy, the source capture system exhaust rate shall be  
2527 permitted to be applied to the exhaust flow rate required by Table 403.3.1.1 for the nail salon.

2528 4. The requirements of this note apply to:

2529 a. an existing nail salon that remodels the nail salon after July 1, 2017;

2530 b. a new nail salon that begins construction after July 1, 2017; and

2531 c. all nail salons beginning on July 1, 2020."

2532 (2) In IMC, Section 502.20 is deleted and rewritten as follows:

2533 "502.20 Manicure stations. A nail salon that files or shapes an acrylic nail shall provide  
2534 each manicure station with a source capture system in accordance with Table 403.3.1.1, note h.  
2535 For a manicure table that does not have factory-installed source capture system inlets for  
2536 recirculating or exhausting air, a nail salon shall provide the manicure table with inlets for  
2537 recirculating or exhausting air located not more than 12 inches (305 mm) horizontally and  
2538 vertically from the point of any acrylic chemical application.

2539 Exception: Section 502.20 applies to a manicure station in:

2540 a. an existing nail salon that remodels the nail salon after July 1, 2017;

2541 b. a new nail salon that begins construction after July 1, 2017; and

2542 c. all nail salons beginning on July 1, 2020."

2543 (3) In IMC, Section 908.1, the following words are added at the end of the last  
 2544 sentence: "or UL/CSA 60335-2-40."

2545 (4) In IMC, Section 918.1, the following words are added after "1995": "or UL/CSA  
 2546 60335-2-40."

2547 (5) In IMC, Section 918.2, the following words are added at the end of the sentence:  
 2548 "or UL/CSA 60335-2-40."

2549 (6) In IMC, Section 1101.2, the words "471 or 1995" are deleted and replaced with  
 2550 "471, 1995, or UL/CSA 60335-2-40."

2551 (7) In IMC, Section 1101.6, the following sentence is added at the end of the  
 2552 paragraph: "High probability systems utilizing A2L refrigerants shall comply with ASHRAE  
 2553 15."

2554 [~~(8) In IMC, Chapter 15, the standard for ASHRAE, is amended by changing the:~~]

2555 [~~(a) standard reference number "15-2016" to "15-2019"; and]~~

2556 [~~(b) standard reference number "34-2016" to "34-2019";]~~

2557 [~~(9)~~ (8) In IMC, Chapter 15 is amended by adding the following referenced standard  
 2558 to CSA:

"Standard reference number	Title	Referenced in code section number
CSA: CSA C22.2 60335-2-40-2019	Standard for Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition	M1403.1, M1412.1, M1413.1"

2561 [~~(10)~~ (9) In IMC, Chapter 15 is amended by adding the following referenced standard  
 2562 to UL:

"Standard reference number	Title	Referenced in code section number
----------------------------	-------	-----------------------------------

2564 UL: 60335-2-40-2019	Standard for Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition	M1403.1, M1412.1, M1413.1"
-----------------------------	--	----------------------------

2565 Section 27. Section **15A-3-601** is amended to read:

2566 **15A-3-601. General provisions.**

2567 The following are adopted as amendments to the NEC to be applicable statewide:

2568 (1) The IRC provisions are adopted as the residential electrical standards applicable to  
2569 residential installations under the IRC. All other installations shall comply with the adopted  
2570 NEC.

2571 (2) In NEC, Section 210.8(A), the words "through 250-volt" are deleted.

2572 (3) In NEC, Section 210.8(A)(5), the word "Basements" is deleted and replaced with  
2573 "Unfinished portions or areas of the basement not intended as habitable rooms."

2574 (4) In NEC, Section 210.8(F), is deleted.

2575 (5) NEC, Sections 210.52(C)(2) and (3) are deleted and replaced with the following:

2576 "210.52(C)(2) Island and peninsular countertops and Work Surfaces. Receptacle  
2577 outlets, if installed to serve an island or peninsular countertop or work surface, shall be  
2578 installed in accordance with 210.52(C)(3). If a receptacle outlet is not provided to serve an  
2579 island or peninsular countertop or work surface, provisions shall be provided at the island or  
2580 peninsula for future addition of a receptacle outlet to serve the island or peninsular countertop  
2581 or work surface.

2582 210.2(C)(3) Receptacle outlet location. Receptacle outlets shall be located in one or  
2583 more of the following:

2584 (1) On or above, but not more than 500 mm (20 inches) above a countertop or work  
2585 surface.

2586 (2) In a countertop using receptacle assemblies listed for use in countertops.

2587 (3) In a work surface using receptacle outlet assemblies listed for use in work surfaces  
2588 or listed for use in countertops.

2589 Receptacle outlets rendered not readily accessible by appliances fastened in place,

2590 appliance garages, sinks, or range tops as covered in the exception to 210.52(C)(1), occupying  
2591 assigned spaces shall not be considered as these required outlets.

2592 Exception: In dwelling units designed to be accessible to persons with disabilities,  
2593 receptacles shall be permitted to be installed not more than 300 mm (12 inches) below the  
2594 countertop or work surface. Receptacles installed below a countertop or work surface shall not  
2595 be located where the countertop or work surface extends more than 150 mm (6 inches) beyond  
2596 its support or base.

2597 (6) NEC, Section 210.12, is deleted.

2598 ~~[(5)]~~ (7) NEC, Section 210.65, is deleted.

2599 ~~[(6)]~~ (8) In NEC, Section 230.67, is deleted.

2600 ~~[(7)]~~ (9) In NEC, Section 314.27(C), is deleted and replaced with the following:

2601 "314.27(C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets. Outlet boxes or outlet box  
2602 systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be  
2603 marked by their manufacturer as suitable for this purpose, and shall not support  
2604 ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet  
2605 box systems designed to support ceiling-suspended (paddle) fans that weigh more than 16 kg  
2606 (35 lb), the required marking shall include the maximum weight to be supported."

2607 ~~[(8)]~~ (10) In NEC, Section 406.9(C), is deleted and replaced with the following:

2608 "406.9(C) Bathtub and Shower Space. Receptacles shall not be installed within or directly over  
2609 a bathtub or shower stall."

2610 Section 28. Section **15A-3-701** is amended to read:

2611 **15A-3-701. General provisions.**

2612 The following is adopted as an amendment to the IECC to be applicable statewide:

2613 ~~[(1) In IECC, Section C403.11.2.3, the words "by the designer" are deleted.]~~

2614 ~~[(2)]~~ (1) IECC, Section C405.11, is deleted and replaced with the following: "C405.11  
2615 Automatic receptacle control. Automatic receptacle control to be optional and decided by  
2616 property owner."

2617 (2) In IECC, Section R103.2, all words after the words "herein governed." are deleted  
2618 and replaced with the following: "Construction documents include all documentation required  
2619 to be submitted in order to issue a building permit."

2620 (3) In IECC, Section R303.3, all wording after the first sentence is deleted.

2621 (4) In IECC, Section R401.2, a new number 4 is added as follows:

2622 "4. Compliance may be shown by demonstrating a result, using the software

2623 RESCheck 2012 Utah Energy Conservation Code, of:

2624 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than  
2625 code";

2626 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than  
2627 code"; and

2628 (c) after January 1, 2021, "5 percent better than code"."

2629 (5) In IECC, Table R402.2, in the column entitled MASS WALL R-VALUE, a new  
2630 footnote j is added as follows:

2631 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5  
2632 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a  
2633 .31 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil,  
2634 84 AFUE, and all other component requirements are met."

2635 (6) In IECC, Section R402.2.1, a new section is added as follows: "R402.2.1.1.

2636 Unvented attic and unvented enclosed rafter assemblies. Unvented attic and unvented enclosed  
2637 rafter assemblies conforming to Section R806.5 shall be provided with an R-value of R-22  
2638 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26 (maximum U-factor  
2639 of 0.038) in Climate Zones 5-B and 6-B provided all the following conditions are met:

2640 1. The unvented attic assembly complies with the requirements of the International  
2641 Residential Code, Section R806.5.

2642 2. The house shall attain a blower door test result < 2.5ACH 50.

2643 3. The house shall require a whole house mechanical ventilation system that does not  
2644 rely solely on a negative pressure strategy (must be positive, balanced or hybrid).

2645 4. Where insulation is installed below the roof deck and the exposed portion of roof  
2646 rafters are not already covered by the R-20 depth of the air-impermeable insulation, the  
2647 exposed portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly  
2648 covered by drywall/finished ceiling. Roof rafters are not required to be covered by minimum  
2649 R-3 if a continuous insulation is installed above the roof deck.

2650 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be  
2651 inside the building thermal envelope.



2652           (7) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and  
2653 replaced with the word "or".

2654           ~~[(7)]~~ (8) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with the  
2655 following: "Where allowed by the code official, the builder may certify compliance to  
2656 components criteria for items which may not be inspected during regularly scheduled  
2657 inspections."

2658           ~~[(8)]~~ (9) In IECC, Section R402.4.1.2, the following changes are made:

2659           (a) In the first sentence:

2660           (i) "The building or dwelling unit" is deleted and replaced with "A single-family  
2661 dwelling";

2662           (ii) after January 1, 2019, replace the word "five" with "3.5"; and

2663           (iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate  
2664 Zones 3 through 8" are deleted.

2665           (b) The following sentence is inserted after the first sentence: "A multi-family dwelling  
2666 and townhouse shall be tested and verified as having an air leakage rate of not exceeding five  
2667 air changes per hour."

2668           (c) In the third sentence, the word "third" is deleted.

2669           (d) The following sentence is inserted after the third sentence: "The following parties  
2670 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed  
2671 contractors who have completed training provided by Blower Door Test equipment  
2672 manufacturers or other comparable training."

2673           ~~[(9)]~~ (10) In IECC, Section R403.3.3[+], the exception for duct air leakage testing is  
2674 deleted and replaced with the following:

2675           ~~[(a) the exception for duct air leakage testing is deleted; and]~~

2676           ~~[(b) the exception for duct air leakage is replaced:]~~

2677           ~~[(i)]~~ (a) on or after January 1, 2017, and before January 1, 2019, with the following:  
2678 "Exception: The total leakage test is not required for systems with all air handlers and at least  
2679 65% of all ducts (measured by length) located entirely within the building thermal envelope.";

2680           ~~[(ii)]~~ (b) on or after January 1, 2019, and before January 1, 2021, with the following:  
2681 "Exception: The duct air leakage test is not required for systems with all air handlers and at  
2682 least 75% of all ducts (measured by length) located entirely within the building thermal

2683 envelope."; and

2684        ~~[(iii)]~~ (c) on or after January 1, 2021, with the following: "Exception: The duct air  
2685 leakage test is not required for systems with all air handlers and at least 80% of all ducts  
2686 (measured by length) located entirely within the building thermal envelope."

2687        ~~[(10)]~~ (11) In IECC, Section R403.3.3, the following is added after the exception:  
2688 "The following parties shall be approved to conduct testing:

2689        1. Parties certified by BPI or RESNET.

2690        2. Licensed contractors who have completed training provided by Duct Test equipment  
2691 manufacturers or other comparable training."

2692        ~~[(11)]~~ (12) In IECC, Section R403.3.4:

2693        (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,  
2694 the number 3 is changed to 6, and the number 85 is changed to 114.6; and

2695        (b) in Subsection 2:

2696        (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to  
2697 8 and the number 113.3 is changed to 226.5;

2698        (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to  
2699 7 and the number 113.3 is changed to 198.2; and

2700        (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is  
2701 changed to 169.9.

2702        ~~[(12)]~~ (13) In IECC, Section R403.3.5, the words "or plenums" are deleted.

2703        ~~[(13)]~~ (14) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7  
2704 are renumbered.

2705        ~~[(14)]~~ (15) IECC, Section R403.6.1, is deleted and replaced with the following:

2706 "R403.6.1 Whole-house mechanical ventilation system fan efficacy. Fans used to provide  
2707 whole-house mechanical ventilation shall meet the efficacy requirements of Table R403.6.1.

2708        Exception: Where an air handler that is integral to tested and listed HVAC equipment is  
2709 used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
2710 electronically commutated motor."

2711        ~~[(15)]~~ (16) In IECC, Section R403.6.1, the table is deleted and replaced with the  
2712 following:

2713        "TABLE R403.6.1

2714 MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any"

2721 [(16)] (17) In IECC, Section [R406.4] R406.5, the table is deleted and replaced with  
 2722 the following:

2723 "TABLE [R406.4] R406.5

2724 MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69
6	68"

2729 (18) A new IECC, Section R403.7.1, is added as follows: "R403.7.1 Qualifications. An  
 2730 individual performing load calculations shall be qualified by completing HVAC training from  
 2731 one of the following:

- 2732 1. HVAC load calculation education from ACCA;
- 2733 2. A recognized educational institution;
- 2734 3. HVAC equipment manufacturer's training; or
- 2735 4. Other recognized industry certification."

2736 Section 29. Section 15A-3-801 is amended to read:

2737 **15A-3-801. General provisions.**

2738 The following are adopted as amendments to the IEBC and are applicable statewide:

2739 (1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See  
 2740 Code Official."

2741 (2) In Section 202, the definition for "code official" is deleted and replaced with the

2742 following:

2743 "CODE OFFICIAL. The officer or other designated authority having jurisdiction  
2744 (AHJ) charged with the administration and enforcement of this code."

2745 (3) In Section 202, the definition for existing buildings is deleted and replaced with the  
2746 following:

2747 "EXISTING BUILDING. A building that is not a dangerous building and that was  
2748 either lawfully erected under a prior adopted code, or deemed a legal non-conforming building  
2749 by the code official."

2750 (4) In Section 301.3, the exception is deleted.

2751 (5) In Section 305.4.2, number 7 is added after number 6 as follows: "7. When a  
2752 change of occupancy in a building or portion of a building results in a Group R-2 occupancy,  
2753 not less than 20% of the dwelling or sleeping units shall be Type-B dwelling or sleeping units.  
2754 These dwelling or sleeping units may be located on any floor of the building provided with an  
2755 accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall  
2756 be Type-A dwelling units."

2757 (6) Section 503.6 is deleted and replaced with the following:

2758 "503.6 Bracing for unreinforced masonry parapets and other appendages upon  
2759 reroofing.

2760 Where the intended alteration requires a permit for reroofing and involves removal of  
2761 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
2762 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
2763 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
2764 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
2765 compliance of such items. Reduced seismic forces are permitted for design purposes."

2766 (7) In Section 705.1, Exception number 3, the following is added at the end of the  
2767 exception:

2768 "This exception does not apply if the existing facility is undergoing a change of  
2769 occupancy classification."

2770 (8) Section 706.3.1 is deleted and replaced with the following:

2771 "706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.  
2772 Where a permit is issued for reroofing more than 25 percent of the roof area of a

2773 building assigned to Seismic Design Category D, E, or F that has parapets constructed of  
2774 unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary,  
2775 etc., the work shall include installation of bracing to resist the reduced International Building  
2776 Code level seismic forces as specified in Section 303 of this code unless an evaluation  
2777 demonstrates compliance of such items."

2778 (9) Section 906.6 is deleted and replaced with the following:

2779 "906.6 Bracing for unreinforced masonry parapets and other appendages upon  
2780 reroofing.

2781 Where the intended alteration requires a permit for reroofing and involves removal of  
2782 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
2783 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
2784 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
2785 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
2786 compliance with such items. Reduced seismic forces are permitted for design purposes."

2787 (10) (a) Section 1006.3 is deleted and replaced with the following:

2788 "1006.3 Seismic Loads. Where a change of occupancy results in a building being  
2789 assigned to a higher risk category, or when a change of occupancy results in a design occupant  
2790 load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of  
2791 the International Building Code using full seismic forces."

2792 (b) Section 1006.3, exceptions 1 through 3 remain unchanged.

2793 (c) In Section 1006.3, add a new exception [4] 5 as follows:

2794 "[4] 5. Where the design occupant load increase is less than 25 occupants and the  
2795 occupancy category does not change."

2796 (11) In Section 1012.7.3, exception 2 is deleted.

2797 Section 30. Section **15A-3-1001** is amended to read:

2798 **15A-3-1001. General provisions.**

2799 (1) In ISPSC, Section 202, the following definition is added for private residential  
2800 swimming pool: "PRIVATE RESIDENTIAL SWIMMING POOL. A swimming pool, spa  
2801 pool, or wading pool used only by an individual, family, or living unit members and guests, but  
2802 not serving any type of multiple unit housing complex of four or more living units."

2803 (2) In ISPSC, Section 202, the definition for Residential Swimming Pool (Residential

2804 Pool) is deleted and replaced with the following: "See the definition for Private Residential  
2805 Swimming Pool."

2806 (3) In ISPSC, Section 320.1, the following changes are made:

2807 (a) the words "or storm" are deleted;

2808 (b) the words "onsite waste water" are added before the word "disposal"; and

2809 (c) the words "or shall be disposed of by other means approved by the state or local  
2810 authority" are deleted.

2811 Section 31. **Effective date.**

2812 This bill takes effect on July 1, 2023.