

**Representative Mike Schultz** proposes the following substitute bill:

**CONSTRUCTION CODE MODIFICATIONS**

2019 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Mike Schultz**

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

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**LONG TITLE**

**General Description:**

This bill amends provisions related to the construction and fire codes.

**Highlighted Provisions:**

This bill:

- ▶ amends provisions related to building inspections;
- ▶ incorporates statewide amendments as part of the construction code;
- ▶ adopts Appendix Q of the 2018 International Residential Code;
- ▶ adopts, statewide with amendments:
  - the 2018 International Building Code, including Appendix J;
  - the 2018 International Plumbing Code;
  - the 2018 International Mechanical Code;
  - the 2018 International Fuel Gas Code;
  - the commercial provisions of the 2018 International Energy Conservation Code;

and

- the 2018 International Existing Building Code;
- ▶ amends statewide amendments to the International Residential Code; and
- ▶ amends local amendments to the International Building Code for Sandy City.

**Money Appropriated in this Bill:**



26 None

27 **Other Special Clauses:**

28 This bill provides a special effective date.

29 **Utah Code Sections Affected:**

30 AMENDS:

- 31 **10-5-132**, as last amended by Laws of Utah 2018, Chapter 236
- 32 **15A-1-202**, as enacted by Laws of Utah 2011, Chapter 14
- 33 **15A-1-203**, as enacted by Laws of Utah 2011, Chapter 14
- 34 **15A-2-103**, as last amended by Laws of Utah 2018, Chapter 186
- 35 **15A-3-102**, as last amended by Laws of Utah 2016, Chapter 249
- 36 **15A-3-103**, as last amended by Laws of Utah 2016, Chapter 249
- 37 **15A-3-104**, as last amended by Laws of Utah 2018, Chapter 361
- 38 **15A-3-105**, as last amended by Laws of Utah 2018, Chapter 158
- 39 **15A-3-107**, as last amended by Laws of Utah 2016, Chapter 249
- 40 **15A-3-110**, as last amended by Laws of Utah 2016, Chapter 249
- 41 **15A-3-112**, as last amended by Laws of Utah 2017, Chapter 257
- 42 **15A-3-113**, as last amended by Laws of Utah 2016, Chapter 249
- 43 **15A-3-202**, as last amended by Laws of Utah 2018, Chapter 361
- 44 **15A-3-203**, as last amended by Laws of Utah 2016, Chapter 249
- 45 **15A-3-205**, as last amended by Laws of Utah 2018, Chapter 186
- 46 **15A-3-302**, as last amended by Laws of Utah 2018, Chapter 186
- 47 **15A-3-303**, as last amended by Laws of Utah 2016, Chapter 249
- 48 **15A-3-304**, as last amended by Laws of Utah 2018, Chapter 186
- 49 **15A-3-305**, as last amended by Laws of Utah 2016, Chapter 249
- 50 **15A-3-306**, as last amended by Laws of Utah 2016, Chapter 249
- 51 **15A-3-307**, as last amended by Laws of Utah 2013, Chapter 297
- 52 **15A-3-310**, as last amended by Laws of Utah 2016, Chapter 249
- 53 **15A-3-314**, as last amended by Laws of Utah 2016, Chapter 249
- 54 **15A-3-401**, as last amended by Laws of Utah 2017, Chapter 14
- 55 **15A-3-501**, as last amended by Laws of Utah 2016, Chapter 249
- 56 **15A-3-701**, as last amended by Laws of Utah 2016, Chapter 249

57 [15A-3-801](#), as last amended by Laws of Utah 2016, Chapter 249  
58 [15A-4-107](#), as last amended by Laws of Utah 2017, Chapter 341  
59 [17-36-55](#), as last amended by Laws of Utah 2018, Chapter 236



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

62 Section 1. Section **10-5-132** is amended to read:

63 **10-5-132. Fees collected for construction approval -- Approval of plans.**

64 (1) As used in this section:

65 (a) "Construction project" means the same as that term is defined in Section [38-1a-102](#).

66 (b) "Lodging establishment" means a place providing temporary sleeping

67 accommodations to the public, including any of the following:

68 (i) a bed and breakfast establishment;

69 (ii) a boarding house;

70 (iii) a dormitory;

71 (iv) a hotel;

72 (v) an inn;

73 (vi) a lodging house;

74 (vii) a motel;

75 (viii) a resort; or

76 (ix) a rooming house.

77 (c) "Planning review" means a review to verify that a town has approved the following

78 elements of a construction project:

79 (i) zoning;

80 (ii) lot sizes;

81 (iii) setbacks;

82 (iv) easements;

83 (v) curb and gutter elevations;

84 (vi) grades and slopes;

85 (vii) utilities;

86 (viii) street names;

87 (ix) defensible space provisions and elevations, if required by the Utah Wildland Urban

88 Interface Code adopted under Section [15A-2-103](#); and

89 (x) subdivision.

90 (d) (i) " Plan review" means all of the reviews and approvals of a plan that a town  
91 requires to obtain a building permit from the town with a scope that may not exceed a review to  
92 verify:

93 (A) that the construction project complies with the provisions of the State Construction  
94 Code under Title 15A, State Construction and Fire Codes Act;

95 (B) that the construction project complies with the energy code adopted under Section  
96 [15A-2-103](#);

97 (C) that the construction project received a planning review;

98 (D) that the applicant paid any required fees;

99 (E) that the applicant obtained final approvals from any other required reviewing  
100 agencies;

101 (F) that the construction project complies with federal, state, and local storm water  
102 protection laws;

103 (G) that the construction project received a structural review;

104 (H) the total square footage for each building level of finished, garage, and unfinished  
105 space; and

106 (I) that the plans include a printed statement indicating that the actual construction will  
107 comply with applicable local ordinances and the state construction codes.

108 (ii) "Plan review" does not mean a review of a document:

109 (A) required to be re-submitted for additional modifications or substantive changes  
110 identified by the plan review;

111 (B) submitted as part of a deferred submittal when requested by the applicant and  
112 approved by the building official; or

113 (C) that, due to the document's technical nature or on the request of the applicant, is  
114 reviewed by a third party.

115 (e) "State Construction Code" means the same as that term is defined in Section  
116 [15A-1-102](#).

117 (f) "State Fire Code" means the same as that term is defined in Section [15A-1-102](#).

118 [~~e~~] (g) "Structural review" means:

- 119 (i) a review that verifies that a construction project complies with the following:
- 120 (A) footing size and bar placement;
- 121 (B) foundation thickness and bar placement;
- 122 (C) beam and header sizes;
- 123 (D) nailing patterns;
- 124 (E) bearing points;
- 125 (F) structural member size and span; and
- 126 (G) sheathing; or
- 127 (ii) if the review exceeds the scope of the review described in Subsection (1)(e)(i), a
- 128 review that a licensed engineer conducts.

129 ~~[(f)]~~ (h) "Technical nature" means a characteristic that places an item outside the  
130 training and expertise of an individual who regularly performs plan reviews.

131 (2) (a) If a town collects a fee for the inspection of a construction project, the town  
132 shall ensure that the construction project receives a prompt inspection.

133 (b) If a town cannot provide a building inspection within a reasonable time, the town  
134 shall promptly engage an independent inspector with fees collected from the applicant.

135 (c) If an inspector identifies one or more violations of the State Construction Code or  
136 State Fire Code during an inspection, on the day on which the inspection occurs, the inspector  
137 shall give the permit holder written notification of each violation that:

138 (i) is delivered in hardcopy or by electronic means; and

139 (ii) upon request by the permit holder, includes a reference to each applicable provision  
140 of the State Construction Code or State Fire Code.

141 (3) (a) A town shall complete a plan review of a construction project for a one to two  
142 family dwelling or townhome by no later than 14 business days after the day on which the plan  
143 is submitted to the town.

144 (b) A town shall complete a plan review of a construction project for a residential  
145 structure built under the International Building Code, not including a lodging establishment, by  
146 no later than 21 business days after the day on which the plan is submitted to the town.

147 (c) (i) Subject to Subsection (3)(c)(ii), if a town does not complete a plan review before  
148 the time period described in Subsection (3)(a) or (b) expires, an applicant may request that the  
149 town complete the plan review.

150 (ii) If an applicant makes a request under Subsection (3)(c)(i), the town shall perform  
151 the plan review no later than:

152 (A) for a plan review described in Subsection (3)(a), 14 days from the day on which the  
153 applicant makes the request; or

154 (B) for a plan review described in Subsection (3)(b), 21 days from the day on which the  
155 applicant makes the request.

156 (d) An applicant may:

157 (i) waive the plan review time requirements described in this Subsection (3); or

158 (ii) with the town's consent, establish an alternative plan review time requirement.

159 (4) (a) A town may not enforce a requirement to have a plan review if:

160 (i) the town does not complete the plan review within the time period described in  
161 Subsection (3)(a) or (b); and

162 (ii) a licensed architect or structural engineer, or both when required by law, stamps the  
163 plan.

164 (b) A town may attach to a reviewed plan a list that includes:

165 (i) items with which the town is concerned and may enforce during construction; and

166 (ii) building code violations found in the plan.

167 (c) A town may not require an applicant to redraft a plan if the town requests minor  
168 changes to the plan that the list described in Subsection (4)(b) identifies.

169 Section 2. Section **15A-1-202** is amended to read:

170 **15A-1-202. Definitions.**

171 As used in this chapter:

172 (1) "Agricultural use" means a use that relates to the tilling of soil and raising of crops,  
173 or keeping or raising domestic animals.

174 (2) (a) "Approved code" means a code, including the standards and specifications  
175 contained in the code, approved by the division under Section [15A-1-204](#) for use by a  
176 compliance agency.

177 (b) "Approved code" does not include the State Construction Code.

178 (3) "Building" means a structure used or intended for supporting or sheltering any use  
179 or occupancy and any improvements attached to it.

180 (4) "Code" means:

181 (a) the State Construction Code; or

182 (b) an approved code.

183 (5) "Commission" means the Uniform Building Code Commission created in Section  
184 15A-1-203.

185 (6) "Compliance agency" means:

186 (a) an agency of the state or any of its political subdivisions which issues permits for  
187 construction regulated under the codes;

188 (b) any other agency of the state or its political subdivisions specifically empowered to  
189 enforce compliance with the codes; or

190 (c) any other state agency which chooses to enforce codes adopted under this chapter  
191 by authority given the agency under a title other than this part and Part 3, Factory Built  
192 Housing and Modular Units Administration Act.

193 (7) "Construction code" means standards and specifications published by a nationally  
194 recognized code authority for use in circumstances described in Subsection 15A-1-204(1),  
195 including:

196 (a) a building code;

197 (b) an electrical code;

198 (c) a residential one and two family dwelling code;

199 (d) a plumbing code;

200 (e) a mechanical code;

201 (f) a fuel gas code;

202 (g) an energy conservation code; and

203 (h) a manufactured housing installation standard code.

204 (8) "Executive director" means the executive director of the Department of Commerce.

205 [~~(8)~~] (9) "Legislative action" includes legislation that:

206 (a) adopts a new State Construction Code;

207 (b) amends the State Construction Code; or

208 (c) repeals one or more provisions of the State Construction Code.

209 [~~(9)~~] (10) "Local regulator" means a political subdivision of the state that is

210 empowered to engage in the regulation of construction, alteration, remodeling, building, repair,  
211 and other activities subject to the codes.

212 [~~(10)~~] (11) "Not for human occupancy" means use of a structure for purposes other  
213 than protection or comfort of human beings, but allows people to enter the structure for:

214 (a) maintenance and repair; and

215 (b) the care of livestock, crops, or equipment intended for agricultural use which are  
216 kept there.

217 [~~(11)~~] (12) "Opinion" means a written, nonbinding, and advisory statement issued by  
218 the commission concerning an interpretation of the meaning of the codes or the application of  
219 the codes in a specific circumstance issued in response to a specific request by a party to the  
220 issue.

221 [~~(12)~~] (13) "State regulator" means an agency of the state which is empowered to  
222 engage in the regulation of construction, alteration, remodeling, building, repair, and other  
223 activities subject to the codes adopted pursuant to this chapter.

224 Section 3. Section **15A-1-203** is amended to read:

225 **15A-1-203. Uniform Building Code Commission -- Unified Code Analysis**

226 **Council.**

227 (1) There is created a Uniform Building Code Commission to advise the division with  
228 respect to the division's responsibilities in administering the codes.

229 (2) The commission shall consist of 11 members as follows:

230 (a) one member shall be from among candidates nominated by the Utah League of  
231 Cities and Towns and the Utah Association of Counties;

232 (b) one member shall be a licensed building inspector employed by a political  
233 subdivision of the state;

234 (c) one member shall be a licensed professional engineer;

235 (d) one member shall be a licensed architect;

236 (e) one member shall be a fire official;

237 (f) three members shall be contractors licensed by the state, of which one shall be a  
238 general contractor, one an electrical contractor, and one a plumbing contractor;

239 (g) two members shall be from the general public and have no affiliation with the  
240 construction industry or real estate development industry; and

241 (h) one member shall be from the Division of Facilities Construction and Management  
242 of the Department of Administrative Services.



243 (3) (a) The executive director shall appoint each commission member after submitting  
244 a nomination to the governor for confirmation or rejection.

245 (b) If the governor rejects a nominee, the executive director shall submit an alternative  
246 nominee until the governor confirms the nomination. An appointment is effective after the  
247 governor confirms the nomination.

248 (4) (a) Except as required by Subsection (4)(b), as terms of commission members  
249 expire, the executive director shall appoint each new commission member or reappointed  
250 commission member to a four-year term.

251 (b) Notwithstanding the requirements of Subsection (4)(a), the executive director shall,  
252 at the time of appointment or reappointment, adjust the length of terms to ensure that the terms  
253 of commission members are staggered so that approximately half of the commission is  
254 appointed every two years.

255 (5) When a vacancy occurs in the commission membership for any reason, the  
256 executive director shall appoint a replacement for the unexpired term.

257 (6) (a) A commission member may not serve more than two full terms.

258 (b) A commission member who ceases to serve may not again serve on the commission  
259 until after the expiration of two years from the date of cessation of service.

260 (7) A majority of the commission members constitute a quorum and may act on behalf  
261 of the commission.

262 (8) A commission member may not receive compensation or benefits for the  
263 commission member's service, but may receive per diem and travel expenses in accordance  
264 with:

265 (a) Section [63A-3-106](#);

266 (b) Section [63A-3-107](#); and

267 (c) rules made by the Division of Finance pursuant to Sections [63A-3-106](#) and  
268 [63A-3-107](#).

269 (9) (a) The commission shall annually designate one of its members to serve as chair of  
270 the commission.

271 (b) The division shall provide a secretary to facilitate the function of the commission  
272 and to record the commission's actions and recommendations.

273 (10) The commission shall:

274 (a) in accordance with Section 15A-1-204, report to the Business and Labor Interim  
275 Committee;

276 (b) offer an opinion regarding the interpretation of or the application of a code if a  
277 person submits a request for an opinion;

278 (c) act as an appeals board as provided in Section 15A-1-207;

279 (d) establish advisory peer committees on either a standing or ad hoc basis to advise  
280 the commission with respect to matters related to a code, including a committee to advise the  
281 commission regarding health matters related to a plumbing code; and

282 (e) assist the division in overseeing code-related training in accordance with Section  
283 15A-1-209.

284 (11) A person requesting an opinion under Subsection (10)(b) shall submit a formal  
285 request clearly stating:

286 (a) the facts in question;

287 (b) the specific citation at issue in a code; and

288 (c) the position taken by the persons involved in the facts in question.

289 (12) (a) In a manner consistent with Subsection (10)(d), the commission shall jointly  
290 create with the Utah Fire Prevention Board an advisory peer committee known as the "Unified  
291 Code Analysis Council" to review fire prevention and construction code issues that require  
292 definitive and specific analysis.

293 (b) The commission and Utah Fire Prevention Board shall jointly, by rule made in  
294 accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, provide for:

295 (i) the appointment of members to the Unified Code Analysis Council; and

296 (ii) procedures followed by the Unified Code Analysis Council.

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

298 **15A-2-103. Specific editions adopted of construction code of a nationally**  
299 **recognized code authority.**

300 (1) Subject to the other provisions of this part, the following construction codes are  
301 incorporated by reference, and together with the amendments specified in Chapter 3, ~~[Part 3,]~~  
302 Statewide Amendments [to International Plumbing] Incorporated as Part of State Construction  
303 Code, and Chapter 4, Local Amendments Incorporated as Part of State Construction Code, are  
304 the construction standards to be applied to building construction, alteration, remodeling, and

305 repair, and in the regulation of building construction, alteration, remodeling, and repair in the  
306 state:

307 (a) the ~~[2015]~~ 2018 edition of the International Building Code, including Appendix J,  
308 issued by the International Code Council;

309 (b) the 2015 edition of the International Residential Code, issued by the International  
310 Code Council;

311 (c) Appendix Q of the 2018 edition of the International Residential Code, issued by the  
312 International Code Council;

313 ~~[(c)]~~ (d) the ~~[2015]~~ 2018 edition of the International Plumbing Code, issued by the  
314 International Code Council;

315 ~~[(d)]~~ (e) the ~~[2015]~~ 2018 edition of the International Mechanical Code, issued by the  
316 International Code Council;

317 ~~[(e)]~~ (f) the ~~[2015]~~ 2018 edition of the International Fuel Gas Code, issued by the  
318 International Code Council;

319 ~~[(f)]~~ (g) the 2017 edition of the National Electrical Code, issued by the National Fire  
320 Protection Association;

321 (h) the residential provisions of the 2015 edition of the International Energy  
322 Conservation Code, issued by the International Code Council;

323 ~~[(g)]~~ (i) the ~~[2015]~~ commercial provisions of the 2018 edition of the International  
324 Energy Conservation Code, issued by the International Code Council;

325 ~~[(h)]~~ (j) the ~~[2015]~~ 2018 edition of the International Existing Building Code, issued by  
326 the International Code Council;

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

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

330 ~~[(k)]~~ (m) subject to Subsection [15A-2-104\(1\)](#), the 2005 edition of the NFPA 225  
331 Model Manufactured Home Installation Standard, issued by the National Fire Protection  
332 Association.

333 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire  
334 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,  
335 issued by the International Code Council, with the alternatives or amendments approved by the

336 Utah Division of Forestry, as a construction code that may be adopted by a local compliance  
337 agency by local ordinance or other similar action as a local amendment to the codes listed in  
338 this section.

339 Section 5. Section **15A-3-102** is amended to read:

340 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

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

342 (2) In IBC, Section 110, a new section is added as follows: " 110.3.5.1,  
343 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant  
344 exterior wall envelope as required by Section [~~1403.2~~] 1404.2, and flashing as required by  
345 Section [~~1405.4~~] 1404.4 to prevent water from entering the weather-resistive barrier."

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

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

355 (5) In IBC, Section 202, the following definition is added for Assisted Living Facility:  
356 "ASSISTED LIVING FACILITY. See Residential Treatment/Support Assisted Living Facility,  
357 Type I Assisted Living Facility, and Type II Assisted Living Facility."

358 [~~(5)~~] (6) In IBC, Section 202, the definition for Foster Care Facilities is modified by  
359 [~~changing~~] deleting the word "Foster" [~~to~~] and replacing it with the word "Child."

360 [~~(6)~~] (7) In IBC, Section 202, the definition for "[F]Record Drawings" is modified by  
361 deleting the words "a fire alarm system" and replacing them with "any fire protection  
362 system."[:]

363 [~~(7)~~] (8) In IBC, Section 202, the following definition is added for Residential  
364 Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT  
365 ASSISTED LIVING FACILITY. [~~See Section 308.1.2~~] A residential facility that provides a  
366 group living environment for four or more residents licensed by the Department of Human

367 Services, and provides a protected living arrangement for ambulatory, non-restrained persons  
 368 who are capable of achieving mobility sufficient to exit the facility without the physical  
 369 assistance of another person."

370 ~~[(8)]~~ (9) In IBC, Section 202, the following definition is added for Type I Assisted  
 371 Living Facility: "TYPE I ASSISTED LIVING FACILITY. [~~See Section 308.1.2~~] A residential  
 372 facility licensed by the Department of Health that provides a protected living arrangement,  
 373 assistance with activities of daily living and social care to two or more ambulatory,  
 374 non-restrained persons who are capable of mobility sufficient to exit the facility without the  
 375 assistance of another person. Subcategories are:

376 Limited Capacity: two to five residents;

377 Small: six to sixteen residents; and

378 Large: over sixteen residents."

379 ~~[(9)]~~ (10) In IBC, Section 202, the following definition is added for Type II Assisted  
 380 Living Facility: "TYPE II ASSISTED LIVING FACILITY. [~~See Section 308.1.2~~] A residential  
 381 facility licensed by the Department of Health that provides an array of coordinated supportive  
 382 personal and health care services to two or more residents who are:

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

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

386 Limited Capacity: two to five residents;

387 Small: six to sixteen residents; and

388 Large: over sixteen residents."

389 ~~[(10)]~~ (11) In IBC, Section 305.2, [~~the words "child care centers," are inserted after the~~  
 390 ~~word "supervision," and the following sentence is added at the end of the paragraph: "See~~  
 391 ~~Section 425 for special requirements for Day Care."~~] the following changes are made:

392 (a) delete the words "more than five children older than 2 1/2 years of age" and replace  
 393 with the words "five or more children 2 years of age or older";

394 (b) after the word "supervision" insert the words "child care services"; and

395 (c) add the following sentence at the end of the paragraph: "See Section 429, Day Care,  
 396 for special requirements for day care."

397 ~~[(11)]~~ (12) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced

398 with the word "four" in ~~[both]~~ all places.

399 ~~[(12)]~~ (13) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child ~~[Day Care~~  
400 ~~-- Residential Certificate or a Family License]~~ day care -- residential child care certificate or a  
401 license. Areas used for child day care purposes with a ~~[Residential Certificate]~~ residential child  
402 care certificate, as described in Utah Administrative Code, R430-50, Residential Certificate  
403 Child Care, or a [Family License] residential child care license, as [defined] described in Utah  
404 Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or  
405 R-3 occupancy as provided in ~~[Section 310.5 or shall]~~ Sections 310.3 and 310.4 comply with  
406 the International Residential Code in accordance with Section R101.2."

407 ~~[(13)]~~ (14) A new IBC Section 305.2.5 is added as follows: "305.2.5 ~~[Child Care~~  
408 Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code,  
409 R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of  
410 School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as  
411 accessory occupancies." Child care centers. Each of the following areas may be classified as  
412 accessory occupancies, if the area complies with Section 508.2:

413 1. Hourly child care centers, as described in Utah Administrative Code, R381-60,

414 Hourly Child Care Centers;

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

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

419 ~~[(14)]~~ (15) In IBC, Table 307.1(1), footnote "d" is added to the row for ~~[Consumer~~  
420 ~~fireworks]~~ Explosives, Division 1.4G in the column titled STORAGE - Solid Pounds (cubic  
421 feet).

422 ~~[(15) In IBC, Section 308.2, the word "FOSTER" is deleted and replaced with~~  
423 ~~"CHILD."~~]

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

427 ~~[TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah~~  
428 ~~Department of Health that provides a protected living arrangement for ambulatory,~~

429 ~~non-restrained persons who are capable of achieving mobility sufficient to exit the facility~~  
 430 ~~without the assistance of another person.]~~

431 ~~[Occupancies. Limited capacity, type I assisted living facilities with two to five residents shall~~  
 432 ~~be classified as R-3 occupancies. Small, type I assisted living facilities with six to sixteen~~  
 433 ~~residents shall be classified as R-4 occupancies. Large, type I assisted living facilities with~~  
 434 ~~over sixteen residents shall be classified as I-1 occupancies.]~~

435 ~~[TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Utah~~  
 436 ~~Department of Health that provides an array of coordinated supportive personal and health care~~  
 437 ~~services to residents who meet the definition of semi-independent.]~~

438 ~~[Semi-Independent. A person who is:]~~

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

440 ~~[B. Cognitively impaired or physically disabled but able to evacuate from the facility with the~~  
 441 ~~physical assistance of one person.]~~

442 ~~[Occupancies. Limited capacity, type II assisted living facilities with two to five residents shall~~  
 443 ~~be classified as R-4 occupancies. Small, type II assisted living facilities with six to sixteen~~  
 444 ~~residents shall be classified as I-1 occupancies. Large, type II assisted living facilities with~~  
 445 ~~over sixteen residents shall be classified as I-2 occupancies.]~~

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

451 ~~[(17) In IBC, Section 308.3, the words "(see Section 308.2.1)" are added after the~~  
 452 ~~words "assisted living facilities."]~~

453 (16) In IBC, Section 308.2, in the list of items under "This group shall include," the  
 454 words "Type-I Large and Type-II Small, see Section 308.2.5" are added after "Assisted living  
 455 facilities."

456 ~~[(18)]~~ (17) In IBC, Section ~~[308.3.4]~~ 308.2.4, all of the words after the first  
 457 International Residential Code are deleted.

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

459 ~~[(a) The words "five persons" are deleted and replaced with the words "three persons."]~~

460 ~~[(b) The words "foster care facilities" are deleted and replaced with "child care~~  
461 ~~facilities."]~~

462 ~~[(c) The words "(both intermediate care facilities and skilled nursing facilities)" are~~  
463 ~~added after "nursing homes."]~~

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

466 (18) A new IBC, Section 308.2.5 is added as follows:

467 "308.2.5 Group I-1 assisted living facility occupancy groups. The following occupancy  
468 groups shall apply to assisted living facilities:

469 Type I assisted living facilities with seventeen or more residents are Large Facilities  
470 classified as an Institutional Group I-1, Condition 1 occupancy.

471 Type II assisted living facilities with six to sixteen residents are Small Facilities  
472 classified as an Institutional Group I-1, Condition 2 occupancy. See Section 202 for  
473 definitions."

474 (19) In IBC, Section 308.3 Institutional Group I-2, the following changes are made:

475 (a) The words "more than five" are deleted and replaced with "four or more";

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

477 (c) The words "Foster care facilities" are deleted and replaced with the words "Child  
478 care facilities"; and

479 (d) The words "(both intermediate care facilities and skilled nursing facilities)" are  
480 added after "Nursing homes."

481 (20) In IBC, Section 308.3.2, the number "five" is deleted and replaced with the  
482 number "four" in each location.

483 (21) A new IBC, Section 308.3.3 is added as follows:

484 "308.3.3 Group I-2 assisted living facilities. Type II assisted living facilities with  
485 seventeen or more residents are Large Facilities classified as an Institutional Group I-2,  
486 Condition 1 occupancy. See Section 202 for definitions."

487 ~~[(21)]~~ (22) In IBC, Section [308.6] 308.5, the [word "five" is] words "more than five"  
488 are deleted and replaced with the [word "four."] words "five or more."

489 ~~[(22)]~~ (23) In IBC, Section [308.6.1] 308.5.1, the following changes are made:

490 (a) [The word "five" is] The words "more than five" are deleted and replaced with the



491 [~~word "four."~~] words "five or more."

492 (b) The words "2-1/2 years or less of age" are deleted and replaced with "under the age  
493 of two."

494 (c) The following sentence is added at the end: "See Section [~~427~~] 429 for special  
495 requirements for Day Care."

496 [~~(23)~~] (24) In IBC, Sections [~~308.6.3~~] 308.5.3 and [~~308.6.4~~] 308.5.4, the [~~word "five"~~  
497 ~~is~~] words "five or fewer" are deleted and replaced with the [~~word "four"~~] words "four or fewer"  
498 in both places and the following sentence is added at the end: "See Section [~~427~~] 429 for  
499 special requirements for Day Care."

500 [~~(24)~~] (25) In IBC, Section [~~310.5;~~] 310.4, the following changes are made:

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

503 (b) The words "Assisted Living Facilities, limited capacity" are added to the list of  
504 occupancies.

505 [~~(25)~~] (26) In IBC, Section [~~310.5.1;~~] 310.4.1, the following changes are made:

506 (a) [~~the~~] The words "other than Child Care" are inserted after the [~~word "dwelling"~~]  
507 words "Care facilities" in the first sentence [~~and~~].

508 (b) All of the words after the first "International Residential Code" are deleted.

509 (c) [~~the~~] The following sentence is added at the end of the last sentence: "See Section  
510 [~~427~~] 429 for special requirements for Child Day Care."

511 [~~(26)~~] (27) A new IBC Section [~~310.5.3~~] 310.4.3 is added as follows: "[~~310.5.3~~]  
512 310.4.3 Child Care. Areas used for child care purposes may be located in a residential  
513 dwelling unit under all of the following conditions and Section [~~427~~] 429:

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

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

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

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

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

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

524 (28) A new IBC, Section 310.4.4 is added as follows: "310.4.4 Assisted living  
525 facilities. Type I assisted living facilities with two to five residents are Limited Capacity  
526 facilities classified as a Residential Group R-3 occupancy or are permitted to comply with the  
527 International Residential Code. See Section 202 for definitions."

528 (29) In IBC, Section 310.5, the words "Type II Limited Capacity and Type I Small, see  
529 Section 310.5.3" are added after the words "assisted living facilities."

530 (30) A new IBC, Section 310.5.3, is added as follows: "310.5.3 Group R-4 Assisted  
531 living facility occupancy groups. The following occupancy groups shall apply to Assisted  
532 Living Facilities: Type II Assisted Living Facilities with two to five residents are Limited  
533 Capacity Facilities classified as a Residential Group R-4, Condition 2 occupancy. Type I  
534 assisted living facilities with six to sixteen residents are Small Facilities classified as  
535 Residential Group R-4, Condition 1 occupancies. See Section 202 for definitions."

536 Section 6. Section **15A-3-103** is amended to read:

537 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

538 (1) IBC Section 403.5.5 is deleted.

539 (2) In IBC, Section 407.2.5, the words "and assisted living facility" are added in the  
540 title and first sentence after the words "nursing home."

541 (3) In IBC, Section 407.2.6, the words "and assisted living facility" are added in the  
542 title after the words "nursing home."

543 (4) In IBC, Section 407.11, a new exception is added as follows: "Exception: An  
544 essential electrical system is not required in assisted living facilities."

545 ~~[(2) In]~~ (5) A new IBC, Section [422.2, a new paragraph] 422.2.1 is added as follows:  
546 "[422.2] 422.2.1 Separations: Ambulatory care facilities licensed by the [Utah] Department of  
547 Health shall be separated from adjacent tenants with a fire partition having a minimum one  
548 hour fire-resistance rating. Any level below the level of exit discharge shall be separated from  
549 the level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance  
550 rating.

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

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

553 2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour  
554 fire-resistance rating."

555 [~~3~~] (6) A new IBC Section [~~427~~] 429, Day Care, is added as follows:

556 "[~~427.1~~] 429.1 Detailed Requirements. In addition to the occupancy and construction  
557 requirements in this code, the additional provisions of this section shall apply to all Day Care in  
558 accordance with Utah Administrative Code R710-8 Day Care Rules.

559 [~~427.2~~] 429.2 Definitions.

560 [~~427.2.1~~] 429.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized  
561 deputies, or the local fire enforcement authority code official.

562 [~~427.2.2~~] 429.2.2 Day Care Facility: Any building or structure occupied by clients of any age  
563 who receive custodial care for less than 24 hours by individuals other than parents, guardians,  
564 relatives by blood, marriage or adoption.

565 [~~427.2.3~~] 429.2.3 Day Care Center: Providing care for five or more clients in a place other than  
566 the home of the person cared for. This would also include Child Care Centers, Out of School  
567 Time or Hourly Child Care Centers licensed by the Department of Health.

568 [~~427.2.4~~] 429.2.4 Family Day Care: Providing care for clients listed in the following two  
569 groups:

570 [~~427.2.4.1~~] 429.2.4.1 Type 1: Services provided for five to eight clients in a home. This would  
571 also include a home that is certified by the Department of Health as Residential Certificate  
572 Child Care or licensed as Family Child Care.

573 [~~427.2.4.2~~] 429.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with  
574 sufficient staffing. This would also include a home that is licensed by the Department of  
575 Health as Family Child Care.

576 [~~427.2.5~~] 429.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted  
577 under the authority of the Utah Fire Prevention Board.

578 [~~427.3~~] 429.3 Family Day Care.

579 [~~427.3.1~~] 429.3.1 Family Day Care units shall have on each floor occupied by clients, two  
580 separate means of egress, arranged so that if one is blocked the other will be available.

581 [~~427.3.2~~] 429.3.2 Family Day Care units that are located in the basement or on the second story  
582 shall be provided with two means of egress, one of which shall discharge directly to the  
583 outside.

584 [427.3.2.1] 429.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with  
585 five to eight clients in a home, located on the ground level or in a basement, may use an  
586 emergency escape or rescue window as allowed in IFC, Chapter 10, Section 1030.

587 [427.3.3] 429.3.3 Family Day Care units shall not be located above the second story.

588 [427.3.4] 429.3.4 In Family Day Care units, clients under the age of two shall not be located  
589 above or below the first story.

590 [427.3.4.1] 429.3.4.1 Clients under the age of two may be housed above or below the first story  
591 where there is at least one exit that leads directly to the outside and complies with IFC, Section  
592 1011 or Section 1012 or Section 1027.

593 [427.3.5] 429.3.5 Family Day Care units located in split entry/split level type homes in which  
594 stairs to the lower level and upper level are equal or nearly equal, may have clients housed on  
595 both levels when approved by the AHJ.

596 [427.3.6] 429.3.6 Family Day Care units shall have a portable fire extinguisher on each level  
597 occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be  
598 serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

599 [427.3.7] 429.3.7 Family Day Care units shall have single station smoke detectors in good  
600 operating condition on each level occupied by clients. Battery operated smoke detectors shall  
601 be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure  
602 continued operation of the smoke detectors.

603 [427.3.8] 429.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,  
604 shall have at least one window or door approved for emergency escape.

605 [427.3.9] 429.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall  
606 include the complete evacuation from the building of all clients and staff. At least annually, in  
607 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape  
608 or rescue window, if one is used as a substitute for one of the required means of egress.

609 [427.4] 429.4 Day Care Centers.

610 [427.4.1] 429.4.1 Day Care Centers shall comply with either I-4 requirements or E  
611 requirements of the IBC, whichever is applicable for the type of Day Care Center.

612 [427.4.2] 429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter  
613 4, Section 405.

614 [427.4.3] 429.4.3 Location at grade. Group E child day care centers shall be located at the

615 level of exit discharge.

616 [~~427.4.3.1~~] 429.4.3.1 Child day care spaces for children over the age of 24 months may be  
617 located on the second floor of buildings equipped with automatic fire protection throughout  
618 and an automatic fire alarm system.

619 [~~427.4.4~~] 429.4.4 Egress. All Group E child day care spaces with an occupant load of more  
620 than 10 shall have a second means of egress. If the second means of egress is not an exit door  
621 leading directly to the exterior, the room shall have an emergency escape and rescue window  
622 complying with Section 1030.

623 [~~427.4.5~~] 429.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative  
624 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of  
625 School Time.

626 [~~427.5~~] 429.5 Requirements for all Day Care.

627 [~~427.5.1~~] 429.5.1 Heating equipment in spaces occupied by children shall be provided with  
628 partitions, screens, or other means to protect children from hot surfaces and open flames.

629 [~~427.5.2~~] 429.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All  
630 staff shall be trained on the fire escape plan and procedure."

631 [~~(4)~~] (7) In IBC, Section 504.4, a new section is added as follows: "504.4.1  
632 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities shall be  
633 allowed on each level of a two-story building of Type V-A construction when all of the  
634 following apply:

- 635 1. All secured units are located at the level of exit discharge in compliance with Section  
636 1010.1.9.3 as amended;
- 637 2. The total combined area of both stories shall not exceed the total allowable area for a  
638 one-story building; and
- 639 3. All other provisions that apply in Section 407 have been provided."

640 (8) In IBC, Section 504.4, a new section is added as follows: "504.4.2 Group I-2  
641 Assisted Living Facilities. Notwithstanding the allowable number of stories permitted by Table  
642 504.4 Group I-2 Assisted Living Facilities of type VA, construction shall be allowed on each  
643 level of a two-story building when all of the following apply:

- 644 1. The total combined area of both stories does not exceed the total allowable area for a  
645 one-story, above grade plane building equipped throughout with an automatic sprinkler system

646 installed in accordance with Section 903.3.1.1.

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

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

652 Section 7. Section **15A-3-104** is amended to read:

653 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

654 (1) In IBC, Section 704.13.2, the following sentence is added to the end of the section:  
655 "An individual spraying fire-resistant materials may obtain a certificate that demonstrates that  
656 the individual has undergone training on how to spray fire-resistant materials to manufacturer's  
657 specifications."

658 (2) IBC, Section (F)~~[901.8]~~ 902.1, is deleted and replaced with the following:

659 "(F)~~[901.8]~~ 902.1 Pump and riser room size. Fire pump and automatic sprinkler system riser  
660 rooms shall be designed with adequate space for all installed equipment necessary for the  
661 installation and to provide sufficient working space around the stationary equipment.

662 Clearances around equipment shall be in accordance with manufacturer requirements and not  
663 less than the following minimum elements:

664 ~~[901.8.1]~~ 902.1.5 A minimum clear and unobstructed distance of 12-inches shall be provided  
665 from the installed equipment to the elements of permanent construction.

666 ~~[901.8.2]~~ 902.1.6 A minimum clear and unobstructed distance of 12-inches shall be provided  
667 between all other installed equipment and appliances.

668 ~~[901.8.3]~~ 902.1.7 A clear and unobstructed width of 36-inches shall be provided in front of all  
669 installed equipment and appliances, to allow for inspection, service, repair or replacement  
670 without removing such elements of permanent construction or disabling the function of a  
671 required fire-resistance-rated assembly.

672 ~~[901.8.4]~~ 902.1.8 Automatic sprinkler system riser rooms shall be provided with a clear and  
673 unobstructed passageway to the riser room of not less than 36-inches, and openings into the  
674 room shall be clear and unobstructed, with doors swinging in the outward direction from the  
675 room and the opening providing a clear width of not less than 34-inches and a clear height of  
676 the door opening shall not be less than 80-inches.

677 [901.8.5-] 902.1.9 Fire pump rooms shall be provided with a clear and unobstructed  
678 passageway to the fire pump room of not less than 72-inches, and openings into the room shall  
679 be clear, unobstructed and large enough to allow for the removal of the largest piece of  
680 equipment, with doors swinging in the outward direction from the room and the opening  
681 providing a clear width of not less than 68-inches and a clear height of the door opening shall  
682 not be less than 80-inches."

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

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

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

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

695 Exceptions:

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

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

702 (7) IBC, [~~Sections~~] Section (F)903.2.8.3 [~~and (F)903.2.8.3.1, are~~] is renumbered to  
703 (F)903.2.8.1 [~~and (F)903.2.8.1.1.~~] and the following exception is added:

704 [~~(8) IBC, Section (F)903.2.8.3.2, is renumbered to (F)903.2.8.1.2 and the following~~  
705 ~~exception is added:~~]

706 "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing  
707 more than 16 residents, provided the building is equipped throughout with an approved fire

708 alarm system that is interconnected and receives its primary power from the building wiring  
709 and a commercial power system."

710 [~~9~~] (8) IBC, Section (F)903.2.8.4, is deleted.

711 [~~10~~] (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the  
712 following: "2. A Group S-1 fire area is located more than three stories above the lowest level  
713 of fire department vehicle access."

714 [~~11~~] (10) IBC, Section (F)904.12, is deleted and replaced with the following:  
715 "(F)904.12 Commercial cooking systems. The automatic fire-extinguishing system for  
716 commercial cooking systems shall be of a type recognized for protection of commercial  
717 cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems  
718 shall be tested in accordance with UL 300 and listed and labeled for the intended application.  
719 The system shall be installed in accordance with this code, its listing and the manufacturer's  
720 installation instructions.

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

724 [~~12~~] (11) IBC, Sections (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1,  
725 are deleted.

726 [~~13~~] (12) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as  
727 follows:

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

734 [~~14~~] (13) In IBC, Section (F)905.8, the exception is deleted and replaced with the  
735 following:

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

737 [~~15~~] (14) In IBC, Section (F)907.2.3 Group E[, the first sentence] is deleted and  
738 rewritten as follows: "A manual fire alarm system that [~~activates~~] initiates the occupant



739 notification signal using an emergency voice/alarm communication system [in accordance  
740 with] that meets the requirements of Section (F)[907.5 shall be] 907.5.2.2, or a manual fire  
741 alarm system that initiates an approved audible and visual occupant notification signal that  
742 meets the requirements of Sections (F)907.5.2.1, (F)907.5.2.1.1, (F)907.5.2.2, and  
743 (F)907.5.2.3, and is installed[;] in accordance with Section (F)907.6 [and administrative rules  
744 made by the State Fire Prevention Board in Group E occupancies.]" shall be installed in Group  
745 E occupancies. Where automatic sprinkler systems or detectors are installed, the systems or  
746 detectors shall be connected to the building fire alarm system."

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

749 "(F)915 Where required.

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

758 (F)915.1 Interconnection.

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

765 (F)915.2 Power source.

766 In new construction, required carbon monoxide alarms shall receive their primary power from  
767 the building wiring where such wiring is served from a commercial source and shall be  
768 equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not  
769 equipped with a battery backup shall be connected to an emergency electrical system. Carbon

770 monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and  
771 without a disconnecting switch other than as required for overcurrent protection.

772 Exceptions.

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

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

779 (F)915.3 Group E.

780 A carbon monoxide detection system shall be installed in new buildings that contain Group E  
781 occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection  
782 system shall be installed in existing buildings that contain Group E occupancies in accordance  
783 with IFC, Chapter 11, Section 1103.9.

784 (F)915.3.1 Where required.

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

787 (F)915.3.2 Detection equipment.

788 Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and  
789 the manufacturer's instructions and be listed as complying with, for single station detectors, UL  
790 2034 and, for system detectors, UL 2075.

791 (F)915.3.3 Locations.

792 Each carbon monoxide detection system shall be installed in the locations specified in NFPA  
793 720.

794 (F)915.3.4 Combination detectors.

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

798 (F)915.3.5 Power source.

799 Each carbon monoxide detection system shall receive primary power from the building wiring  
800 if the wiring is served from a commercial source. If primary power is interrupted, each carbon

801 monoxide detection system shall receive power from a battery. Wiring shall be permanent and  
802 without a disconnecting switch other than that required for overcurrent protection.

803 (F)915.3.6 Maintenance.

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

807 Section 8. Section **15A-3-105** is amended to read:

808 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

809 (1) In IBC, Section 1010.1.9, an exception is added as follows: "Exception: Group E  
810 occupancies for purposes of a lockdown or a lockdown drill in accordance with Section  
811 1010.1.9.5 Exception 5."

812 (2) In IBC, Section 1010.1.9.2, "Exception:" is deleted and replaced with "Exceptions:  
813 1."

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

817 (4) In IBC, Section [~~1010.1.9.3~~] 1010.1.9.4, a new number [~~6~~] 7 is added as follows:  
818 "[~~6~~] 7. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with  
819 Section 1010.1.9.5 Exception 5."

820 (5) In IBC, Section [~~1010.1.9.4~~] 1010.1.9.5, a new exception 6 is added as follows: "6.  
821 Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with  
822 Section 1010.1.9.5 Exception 5."

823 (6) In IBC, Section [~~1010.1.9.5~~] 1010.1.9.6, a new exception 5 is added as follows: "5.  
824 Group E occupancies may have a second lock on classrooms for purposes of a lockdown or  
825 lockdown drill, if:

826 5.1 The application of the lock is approved by the code official.

827 5.2 The unlatching of any door or leaf does not require more than two operations.

828 5.3 The lock can be released from the opposite side of the door on which it is installed.

829 5.4 The lock is only applied during lockdown or during a lockdown drill.

830 5.5 The lock complies with all other state and federal regulations, including the

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

832 (7) In IBC, Section [~~1010.1.9.6~~] 1010.1.9.7, a new number 9 is added as follows: " 9.  
833 The secure area or unit with special egress locks shall be located at the level of exit discharge  
834 in Type IIIB, IV, and V construction."

835 (8) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: "  
836 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U  
837 occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling  
838 units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the  
839 minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the  
840 walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches  
841 (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm)  
842 shall be provided on stairways with solid risers where the tread depth is less than 10 inches  
843 (254 mm)."

844 (9) In IBC, Section 1011.11, a new exception 5 is added as follows: " 5. In  
845 occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U,  
846 which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails  
847 shall be provided on at least one side of stairways consisting of four or more risers."

848 (10) In IBC, Section 1013.5, the words ", including when the building may not be fully  
849 occupied" are added at the end of the sentence.

850 (11) IBC, Section 1025, is deleted.

851 (12) In IBC, Section [~~1029.14~~] 1029.15, exception 2 is deleted.

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

854 [(~~14~~)] (13) In IBC, Section [~~1208.4~~] 1207.4, subparagraph 1 is deleted and replaced  
855 with the following: "1. The unit shall have a living room of not less than 165 square feet (15.3  
856 m<sup>2</sup>) of floor area. An additional 100 square feet (9.3 m<sup>2</sup>) of floor area shall be provided for  
857 each occupant of such unit in excess of two."

858 Section 9. Section **15A-3-107** is amended to read:

859 **15A-3-107. Amendments to Chapter 16 of IBC.**

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

863 Category II in this table."

864 (2) In IBC, Section 1605.2, in the portion of the definition for the value of  $f_2$ , the words  
865 "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 +$   
866  $.025(A-5)$  for other configurations where roof snow load exceeds 30 psf;

867  $f_2 = 0$  for roof snow loads of 30 psf (1.44kN/m<sup>2</sup>) or less.

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

869 (3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and  
870 replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44  
871 kNm<sup>2</sup>) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30  
872 pounds per square foot (1.44 kNm<sup>2</sup>), the snow loads may be reduced in accordance with the  
873 following in load combinations including both snow and seismic loads.  $[W_s] \underline{S}$  as calculated  
874 below, shall be combined with seismic loads.

875  $[W_s] \underline{S} = (0.20 + 0.025(A-5))P_f$  is greater than or equal to  $0.20 P_f$ .

876 Where:

877  $[W_s] \underline{S}$  = Weight of snow to be ~~included~~ used in combination with seismic ~~calculations~~  
878 loads

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

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

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

884 (4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General.  
885 Except as modified in Sections 1608.1.1, 1608.1.2, and 1608.1.3, design snow loads shall be  
886 determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less  
887 than that determined by Section 1607. Where the minimum live load, in accordance with  
888 Section 1607, is greater than the design roof snow load, pf, the live load shall be used for  
889 design, but it may not be reduced to a load lower than the design roof snow load. Drifting need  
890 not be considered for roof snow loads, pf, less than 20 psf."

891 (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Ice dams and icicles  
892 along eaves. Section 7.4.5 of Chapter 7 of ASCE 7 referenced in IBC Section 1608.1 [~~of the~~  
893 ~~IBC~~] is deleted and replaced with the following: [~~Section~~] 7.4.5 Ice Dams and Icicles Along

894 Eaves. Where ground snow loads exceed 75 psf, eaves shall be capable of sustaining a  
 895 uniformly distributed load of  $2p_f$  on all overhanging portions. No other loads except dead  
 896 loads shall be present on the roof when this uniformly distributed load is applied. All building  
 897 exits under down-slope eaves shall be protected from sliding snow and ice."

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

904 [~~WHERE:~~]

905 [ ~~$P_g$  = Ground snow load at a given elevation (psf);]~~

906 [ ~~$P_o$  = Base ground snow load (psf) from Table No. 1608.1.2(a);]~~

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

908 [~~A = Elevation above sea level at the site (ft./1,000);]~~

909 [ ~~$A_o$  = Base ground snow elevation from Table 1608.1.2(a) (ft./1,000).]~~

910 [~~The building official may round the roof snow load to the nearest 5 psf. The ground snow~~  
 911 ~~load,  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits~~  
 912 ~~data substantiating the adjustments:]~~

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

917 (6) A new IBC, Section 1608.1.2, is added as follows: "1608.1.2 Thermal factor. The  
 918 value for the thermal factor,  $C_t$ , used in calculation of  $p_f$  shall be determined from Table 7.3-2  
 919 in ASCE 7. Exception: Except for unheated structures, the value of  $C_t$  need not exceed 1.0  
 920 when ground snow load,  $p_g$ , is calculated using Section 1608.2.1."

921 [~~(7) IBC, Table 1608.1.2(a) and Table 1608.1.2(b), are added as follows:]~~

922

["TABLE NO. 1608.1.2(a)					
- STATE OF UTAH - REGIONAL SNOW LOAD FACTORS					
923	-	COUNTY	$P_o$	S	$A_o$
924	-				

925	-	Beaver	43	63	6.2
926	-	Box Elder	43	63	5.2
927	-	Cache	50	63	4.5
928	-	Carbon	43	63	5.2
929	-	Daggett	43	63	6.5
930	-	Davis	43	63	4.5
931	-	Duchesne	43	63	6.5
932	-	Emery	43	63	6.0
933	-	Garfield	43	63	6.0
934	-	Grand	36	63	6.5
935	-	Iron	43	63	5.8
936	-	Juab	43	63	5.2
937	-	Kane	36	63	5.7
938	-	Millard	43	63	5.3
939	-	Morgan	57	63	4.5
940	-	Piute	43	63	6.2
941	-	Rich	57	63	4.1
942	-	Salt Lake	43	63	4.5
943	-	San Juan	43	63	6.5
944	-	Sanpete	43	63	5.2
945	-	Sevier	43	63	6.0
946	-	Summit	86	63	5.0
947	-	Tooele	43	63	4.5
948	-	Uintah	43	63	7.0
949	-	Utah	43	63	4.5
950	-	Wasatch	86	63	5.0
951	-	Washington	29	63	6.0
952	-	Wayne	36	63	6.5

953	-	Weber	43	63	4.5
954	TABLE NO. 1608.1.2(B)				
955	REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS <sup>2,3</sup>				
956	The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study:				
957	County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) <sup>6</sup>
958	Carbon	Price <sup>3,1</sup> [All other county locations <sup>5</sup>	5550] [=	43] [=	30] [=
959	Davis	Fruit Heights <sup>3</sup>	4500 - 4850	57	40
960	Emery	Green River <sup>3</sup>	4070	36	25
961	Garfield	Panguitch <sup>3</sup>	6600	43	30
962	Rich	Woodruff <sup>3,1</sup> [Laketown <sup>4,1</sup> [Garden City <sup>5,1</sup> [Randolph <sup>4</sup>	6315] [6000] [= [6300	57] [57] [= [57	40] [40] [= [40
963	San Juan	Monticello <sup>3</sup>	6820	50	35
964	Summit	Coalville <sup>3,1</sup> [Kamas <sup>4</sup>	5600] [6500	86] [114	60] [80
965	Tooele	Tooele <sup>3</sup>	5100	43	30
966	Utah	Orem <sup>3,1</sup> [Pleasant Grove <sup>4,1</sup> [Provo <sup>5</sup>	4650] [5000] [=	43] [43] [=	30] [30] [=
967	Wasatch	Heber <sup>5</sup>	=	=	=
968	Washington	Leeds <sup>3,1</sup> [Santa Clara <sup>3,1</sup> [St. George <sup>3,1</sup> [All other county locations <sup>5</sup>	—3460] [2850] [2750] [=	29] [21] [21] [=	20] [15] [15] [=
969	Wayne	Loa <sup>3</sup>	7080	43	30



970	<del>*The IBC requires a minimum live load - See Section 1607.12.</del>
971	<del>*This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.</del>
972	<del>*Values adopted from Table VII of the Utah Snow Load Study.</del>
973	<del>*Values based on site specific study. Contact local Building Official for additional information.</del>
974	<del>*Contact local Building Official.</del>
975	<del>*Based on <math>C_e=1.0</math>, <math>C_r=1.0</math> and <math>I_s=1.0</math>"]</del>

976 [~~(8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The~~  
 977 ~~value for the thermal factor,  $C_e$ , used in calculation of  $P_r$  shall be determined from Table 7.3 in~~  
 978 ~~ASCE 7.]~~

979 [~~Exception: Except for unheated structures, the value of  $C_r$  need not exceed 1.0 when ground~~  
 980 ~~snow load,  $P_g$  is calculated using Section 1608.1.2 as amended."]~~

981 [~~(9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground~~  
 982 ~~Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs~~  
 983 ~~in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table~~  
 984 ~~1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure~~  
 985 ~~1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2~~  
 986 ~~and for all sites within the CS areas shall be approved. Ground snow load determination for~~  
 987 ~~such sites shall be based on an extreme value statistical analysis of data available in the vicinity~~  
 988 ~~of the site using a value with a 2-percent annual probability of being exceeded (50-year mean~~  
 989 ~~recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as~~  
 990 ~~approved by the building official."]~~

991 (7) A new IBC, Section 1608.1.3 is added as follows: "1608.1.3 Drifts on adjacent  
 992 structures. Section 7.7.2 of ASCE 7 referenced in IBC, Section 1608.1, is deleted and replaced  
 993 with the following: 7.7.2 Adjacent structures. At lower adjacent structures, the requirements of  
 994 Section 7.7.1 shall be used to calculate windward and leeward drifts. The resulting drift is  
 995 permitted to be truncated."

996 (8) A new IBC, Section 1608.2.1 is added as follows: "1608.2.1 Utah ground snow

997 loads. Section 7.2 of ASCE 7 referenced in IBC, Section 1608.1 is modified as follows:

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

999 (b) On Figure 7.2-1, remove CS and other ground snow load values in the state of

1000 Utah. Add red shaded region for the state of Utah with the following note: See note for Utah.

1001 (c) The following is added to the Note on Figure 7.2.1: See Table 7.2-9 for Utah.

1002 (d) Add Table 7-2.9 as follows:

TABLE 7.2-9

GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

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

1026	<u>Parowan</u>	<u>Iron</u>	<u>32</u>	<u>6007</u>
1027	<u>Price</u>	<u>Carbon</u>	<u>31</u>	<u>5558</u>
1028	<u>Provo</u>	<u>Utah</u>	<u>31</u>	<u>4541</u>
1029	<u>Randolph</u>	<u>Rich</u>	<u>50</u>	<u>6286</u>
1030	<u>Richfield</u>	<u>Sevier</u>	<u>27</u>	<u>5338</u>
1031	<u>St. George</u>	<u>Washington</u>	<u>21</u>	<u>2585</u>
1032	<u>Salt Lake City</u>	<u>Salt Lake</u>	<u>28</u>	<u>4239</u>
1033	<u>Tooele</u>	<u>Tooele</u>	<u>35</u>	<u>5029</u>
1034	<u>Vernal</u>	<u>Uintah</u>	<u>39</u>	<u>5384</u>

1035 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.

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.

1036 [~~(10)~~] (9) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 Effective  
 1037 Seismic Weight. In ASCE 12.7.2 and 12.14.8.1 [~~of Chapter 12 of ASCE 7~~] as referenced in  
 1038 Section 1613.1, Definition of W, Item 4 is deleted and replaced with the following:  
 1039 4. Where [~~the~~] flat roof snow load, P<sub>f</sub>, exceeds 30 psf, the snow load included in the effective  
 1040 seismic [~~design~~] weight shall be calculated, in accordance with the following [~~formula~~]  
 1041 equation: W<sub>s</sub> = (0.20 + 0.025(A-5))P<sub>f</sub> [~~is greater than or equal to~~] ≥ 0.20 P<sub>f</sub>.  
 1042 WHERE:  
 1043 W<sub>s</sub> = Weight of snow to be included [~~in seismic calculations~~] as effective seismic weight  
 1044 A = Elevation above sea level at the location of the structure (ft./1,000)  
 1045 P<sub>f</sub> = Design roof snow load, psf.  
 1046 For the purposes of this section, snow load shall be assumed uniform on the roof footprint  
 1047 without including the effects of drift or sliding. The Importance Factor, I, used in calculating P<sub>f</sub>

1048 may be considered 1.0 for use in the formula for  $W_s$ ."

1049 ~~[(11) A new IBC, Section 1613.7, is added as follows: "1613.7 ASCE 7, Section~~  
1050 ~~13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall have a sleeve or~~  
1051 ~~adapter through the ceiling tile to allow for free movement of at least 1 inch (25 mm) in all~~  
1052 ~~horizontal directions.]~~

1053 ~~[Exceptions:]~~

1054 ~~[1. Where rigid braces are used to limit lateral deflections.]~~

1055 ~~[2. At fire sprinkler heads in frangible surfaces per NFPA 13.]~~

1056 Section 10. Section **15A-3-110** is amended to read:

1057 **15A-3-110. Amendments to Chapters 23 through 25 of IBC.**

1058 (1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors.  
1059 The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used  
1060 Load Duration Factors,  $C_d$ , of the National Design Specifications, shall not be utilized at  
1061 elevations above 5,000 feet (1,524 M)."

1062 ~~[(2) In IBC, Section 2308.3.1, a new exception, 3, is added as follows: "3. Where~~  
1063 ~~foundation plates or sills are bolted or anchored to the foundation with not less than 1/2 inch~~  
1064 ~~(12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 inches (178 mm) into~~  
1065 ~~concrete or masonry and spaced not more than 32 inches (816 mm) apart, there shall be a~~  
1066 ~~minimum of two bolts or anchor straps per piece located not less than 4 inches (102 mm) from~~  
1067 ~~each end of each piece. A properly sized nut and washer shall be tightened on each bolt to the~~  
1068 ~~plate."]~~

1069 ~~[(3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other~~  
1070 ~~materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with~~  
1071 ~~ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7, as amended in Section~~  
1072 ~~1613.5, for installation in high seismic areas."]~~

1073 (2) In IBC, Section 2308.3.1, the words "6 feet (1829 mm)" and "4 feet (1219 mm)" are  
1074 deleted and each replaced with the words "32 inches."

1075 Section 11. Section **15A-3-112** is amended to read:

1076 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

1077 (1) In IBC [P] Table 2902.1 the following changes are made:

1078 ~~[(a) The title for [P] Table 2902.1 is deleted and replaced with the following: "[P]~~

1079 Table 2902.1, ~~Minimum Number of Required Plumbing Facilities a, h".]~~

1080 ~~[(b)]~~ (a) In the row for "E" occupancy in the field for "OTHER" a new footnote i is  
1081 added.

1082 ~~[(c)]~~ (b) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is  
1083 added.

1084 ~~[(d)]~~ (c) A new footnote h is added as follows: "FOOTNOTE: [h] g. When provided,  
1085 subject to footnote [j] i, in public toilet facilities there shall be an equal number of diaper  
1086 changing facilities in male toilet rooms and female toilet rooms."

1087 ~~[(e)]~~ (d) A new footnote [i] h is added to the table as follows: "FOOTNOTE [i] h:  
1088 Non-residential child care facilities shall comply with additional sink requirements of Utah  
1089 Administrative Code [~~R430-100-4~~], R381-60-9, Hourly Child Care Centers, R381-70-9, Out of  
1090 School Time Child Care Programs, and R381-100-9, Child Care Centers."

1091 ~~[(f)]~~ (e) A new footnote [j] i is added to the table as follows: "FOOTNOTE [j] i: A  
1092 building owned by a state government entity or by a political subdivision of the state that  
1093 allows access to the public shall provide diaper changing facilities in accordance with footnote  
1094 h if:

- 1095 1. the building is newly constructed; or
- 1096 2. a bathroom in the building is renovated."

1097 (f) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
1098 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
1099 accordance with Utah Administrative Code, R392-302, Design, Construction and Operation of  
1100 Public Pools."

1101 (2) A new IBC, Section [P]2902.7, is added as follows:

1102 "[P]2902.7 Toilet Facilities for Workers.

1103 Toilet facilities shall be provided for construction workers and such facilities shall be  
1104 maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type  
1105 shall conform to ANSI Z4.3."

1106 (3) In IBC, Section 3006.5, a new exception is added as follows: "Exception: Hydraulic  
1107 elevators and roped hydraulic elevators with a rise of 50 feet or less."

1108 Section 12. Section **15A-3-113** is amended to read:

1109 **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

1110 [(H)] In IBC, Chapter 35, the referenced standard ICCA117.1-09, Section 606.2,  
 1111 Exception 1 is modified to include the following sentence at the end of the exception:

1112 "The minimum clear floor space shall be centered on the sink assembly."

1113 [~~(2) The following referenced standard is added under UL in IBC, Chapter 35:~~]

[Number	Title	Referenced in code section number]
[ <del>2034-2008</del> ]	[ <del>Standard of Single- and Multiple-station Carbon Monoxide Alarms</del> ]	[ <del>907.9</del> "]

1116 Section 13. Section **15A-3-202** is amended to read:

1117 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

1118 (1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2

1119 Physical change for bedroom window egress. A structure whose egress window in an existing  
 1120 bedroom is smaller than required by this code, and that complied with the construction code in  
 1121 effect at the time that the bedroom was finished, is not required to undergo a physical change to  
 1122 conform to this code if the change would compromise the structural integrity of the structure or  
 1123 could not be completed in accordance with other applicable requirements of this code,  
 1124 including setback and window well requirements."

1125 (2) In IRC, Section 109:

1126 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant  
 1127 exterior wall envelope inspections. An inspection shall be made of the weather-resistant  
 1128 exterior wall envelope as required by Section R703.1 and flashings as required by Section  
 1129 R703.8 to prevent water from entering the weather-resistive barrier."

1130 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;  
 1131 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced  
 1132 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;  
 1133 and R109.1.7 Final inspection.

1134 (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to  
 1135 owner. Upon notice from the building official that work on any building or structure is being  
 1136 prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an

1137 unsafe and dangerous manner, such work shall be immediately stopped. The stop work order  
1138 shall be in writing and shall be given to the owner of the property involved, or to the owner's  
1139 agent or to the person doing the work; and shall state the conditions under which work will be  
1140 permitted to resume."

1141 (4) In IRC, Section R202, the following definition is added: "CERTIFIED  
1142 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to  
1143 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
1144 under Utah Code, Subsection 19-4-104(4)."

1145 ~~[(5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by~~  
1146 ~~deleting the words at the end of the sentence "being heated or cooled by any equipment or~~  
1147 ~~appliance" and replacing them with the following: "enclosed within the building thermal~~  
1148 ~~envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following~~  
1149 ~~means:]~~

1150 ~~[1. Openings directly into an adjacent conditioned space:]~~

1151 ~~[2. An un-insulated floor, ceiling or wall adjacent to a conditioned space:]~~

1152 ~~[3. Un-insulated duct, piping or other heat or cooling source within the space.]"~~

1153 ~~[(6)]~~ (5) In IRC, Section R202, the definition of "Cross Connection" is deleted and  
1154 replaced with the following: "CROSS CONNECTION. Any physical connection or potential  
1155 connection or arrangement between two otherwise separate piping systems, one of which  
1156 contains potable water and the other either water of unknown or questionable safety or steam,  
1157 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
1158 with the direction of flow depending on the pressure differential between the two systems (see  
1159 "Backflow, Water Distribution")."

1160 ~~[(7)]~~ (6) In IRC, Section 202, in the definition for gray water a comma is inserted after  
1161 the word "washers"; the word "and" is deleted; and the following is added to the end: "and  
1162 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible;  
1163 without objectionable odors; non-highly pigmented; and will not interfere with the operation of  
1164 the sewer treatment facility."

1165 ~~[(8)]~~ (7) In IRC, Section R202, the definition of "Potable Water" is deleted and  
1166 replaced with the following: "POTABLE WATER. Water free from impurities present in  
1167 amounts sufficient to cause disease or harmful physiological effects and conforming to the

1168 Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water  
 1169 Quality Act, and the regulations of the public health authority having jurisdiction."

1170 [~~(9)~~] (8) IRC, Figure R301.2(5), is deleted and replaced with [~~Table R301.2(5a) and~~  
 1171 ~~Table R301.2(5b)~~] R301.2(5) as follows:

1172 ["TABLE NO. R301.2(5a)"]				
1173 [STATE OF UTAH - REGIONAL SNOW LOAD FACTORS]				
1174	[COUNTY]	[Po]	[S]	[Ao]
1175	[Beaver]	[43]	[63]	[6.2]
1176	[Box Elder]	[43]	[63]	[5.2]
1177	[Cache]	[50]	[63]	[4.5]
1178	[Carbon]	[43]	[63]	[5.2]
1179	[Daggett]	[43]	[63]	[6.5]
1180	[Davis]	[43]	[63]	[4.5]
1181	[Duchesne]	[43]	[63]	[6.5]
1182	[Emery]	[43]	[63]	[6.0]
1183	[Garfield]	[43]	[63]	[6.0]
1184	[Grand]	[36]	[63]	[6.5]
1185	[Iron]	[43]	[63]	[5.8]
1186	[Juab]	[43]	[63]	[5.2]
1187	[Kane]	[36]	[63]	[5.7]
1188	[Millard]	[43]	[63]	[5.3]
1189	[Morgan]	[57]	[63]	[4.5]
1190	[Piute]	[43]	[63]	[6.2]
1191	[Rich]	[57]	[63]	[4.1]
1192	[Salt Lake]	[43]	[63]	[4.5]
1193	[San Juan]	[43]	[63]	[6.5]
1194	[Sanpete]	[43]	[63]	[5.2]
1195	[Sevier]	[43]	[63]	[6.0]
1196	[Summit]	[86]	[63]	[5.0]



1197	[Footele]	[43]	[63]	[4.5]
1198	[Uintah]	[43]	[63]	[7.0]
1199	[Utah]	[43]	[63]	[4.5]
1200	[Wasatch]	[86]	[63]	[5.0]
1201	[Washington]	[29]	[63]	[6.0]
1202	[Wayne]	[36]	[63]	[6.5]
1203	[Weber]	[43]	[63]	[4.5]

1204	[TABLE NO. R301.2(5b)]				
1205	[— REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS <sup>1,2</sup> ]				
1206	[The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study:]				
1207	[County]	[City]	[Elevation]	[Ground Snow Load (psf)]	[Roof Snow Load (psf)]
1208	[Carbon]	[Price <sup>3</sup> All other county locations <sup>5</sup> ]	[5550 =]	[43 =]	[30 =]
1209	[Davis]	[Fruit Heights <sup>3</sup> ]	[4500 - 4850]	[57]	[40]
1210	[Emery]	[Green River <sup>3</sup> ]	[4070]	[36]	[25]
1211	[Garfield]	[Panguitch <sup>3</sup> ]	[6600]	[43]	[30]
1212	[Rich]	[Woodruff <sup>3</sup> Laketown <sup>4</sup> Garden City <sup>5</sup> Randolph <sup>4</sup> ]	[6315 6000 = 6300]	[57 57 = 57]	[40 40 = 40]
1213	[San Juan]	[Monticello <sup>3</sup> ]	[6820]	[50]	[35]
1214	[Summit]	[Coalville <sup>3</sup> Kamas <sup>4</sup> ]	[5600 6500]	[86 114]	[60 80]
1215	[Footele]	[Footele <sup>3</sup> ]	[5100]	[43]	[30]

1216	[Utah]	[Orem <sup>3</sup> Pleasant Grove <sup>4</sup> Provo <sup>5</sup> ]	[4650 5000 =]	[43 43 =]	[30 30 =]
1217	[Wasatch]	[Heber <sup>5</sup> ]	[=]	[=]	[=]
1218	[Washington]	[Leeds <sup>3</sup> Santa Clara <sup>3</sup> St. George <sup>3</sup> All other county locations <sup>5</sup> ]	[3460 —2850 —2750 =]	[29 21 21 =]	[20 15 15 =]
1219	[Wayne]	[Loa <sup>3</sup> ]	[7080]	[43]	[30]
1220	[1The IRC requires a minimum live load -- See R301.6.]				
1221	[2This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.]				
1222	[3Values adopted from Table VII of the Utah Snow Load Study]				
1223	[4Values based on site-specific study. Contact local Building Official for additional information.]				
1224	[5Contact local Building Official.]				
1225	[6Based on Cc=1.0, Ct=1.0 and Is=1.0"]				

1226	<u>"TABLE R301.2(5)</u>			
1227	<u>GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH</u>			
1228	<u>City/Town</u>	<u>County</u>	<u>Ground Snow Load (lb/ft<sup>2</sup>)</u>	<u>Elevation (ft)</u>
1229	<u>Beaver</u>	<u>Beaver</u>	<u>35</u>	<u>5886</u>
1230	<u>Brigham City</u>	<u>Box Elder</u>	<u>42</u>	<u>4423</u>
1231	<u>Castle Dale</u>	<u>Emery</u>	<u>32</u>	<u>5669</u>
1232	<u>Coalville</u>	<u>Summit</u>	<u>57</u>	<u>5581</u>
1233	<u>Duchesne</u>	<u>Duchesne</u>	<u>39</u>	<u>5508</u>
1234	<u>Farmington</u>	<u>Davis</u>	<u>35</u>	<u>4318</u>
1235	<u>Fillmore</u>	<u>Millard</u>	<u>30</u>	<u>5138</u>

<u>1236</u>	<u>Heber City</u>	<u>Wasatch</u>	<u>60</u>	<u>5604</u>
<u>1237</u>	<u>Junction</u>	<u>Piute</u>	<u>27</u>	<u>6030</u>
<u>1238</u>	<u>Kanab</u>	<u>Kane</u>	<u>25</u>	<u>4964</u>
<u>1239</u>	<u>Loa</u>	<u>Wayne</u>	<u>37</u>	<u>7060</u>
<u>1240</u>	<u>Logan</u>	<u>Cache</u>	<u>43</u>	<u>4531</u>
<u>1241</u>	<u>Manila</u>	<u>Daggett</u>	<u>26</u>	<u>6368</u>
<u>1242</u>	<u>Manti</u>	<u>Sanpete</u>	<u>37</u>	<u>5620</u>
<u>1243</u>	<u>Moab</u>	<u>Grand</u>	<u>21</u>	<u>4029</u>
<u>1244</u>	<u>Monticello</u>	<u>San Juan</u>	<u>67</u>	<u>7064</u>
<u>1245</u>	<u>Morgan</u>	<u>Morgan</u>	<u>52</u>	<u>5062</u>
<u>1246</u>	<u>Nephi</u>	<u>Juab</u>	<u>39</u>	<u>5131</u>
<u>1247</u>	<u>Ogden</u>	<u>Weber</u>	<u>37</u>	<u>4334</u>
<u>1248</u>	<u>Panguitch</u>	<u>Garfield</u>	<u>41</u>	<u>6630</u>
<u>1249</u>	<u>Parowan</u>	<u>Iron</u>	<u>32</u>	<u>6007</u>
<u>1250</u>	<u>Price</u>	<u>Carbon</u>	<u>31</u>	<u>5558</u>
<u>1251</u>	<u>Provo</u>	<u>Utah</u>	<u>31</u>	<u>4541</u>
<u>1252</u>	<u>Randolph</u>	<u>Rich</u>	<u>50</u>	<u>6286</u>
<u>1253</u>	<u>Richfield</u>	<u>Sevier</u>	<u>27</u>	<u>5338</u>
<u>1254</u>	<u>St. George</u>	<u>Washington</u>	<u>21</u>	<u>2585</u>
<u>1255</u>	<u>Salt Lake City</u>	<u>Salt Lake</u>	<u>28</u>	<u>4239</u>
<u>1256</u>	<u>Tooele</u>	<u>Tooele</u>	<u>35</u>	<u>5029</u>
<u>1257</u>	<u>Vernal</u>	<u>Uintah</u>	<u>39</u>	<u>5384</u>

1258

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.

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.

1259           ~~[(10)]~~ (9) IRC, Section R301.6, is deleted and replaced with the following: "R301.6  
1260 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the  
1261 jurisdictions identified in that table. Otherwise, ~~[the ground snow load, P<sub>g</sub>, to be used in the~~  
1262 ~~determination of design snow loads for buildings and other structures shall be determined by~~  
1263 ~~using the following formula: P<sub>g</sub> = (P<sub>o</sub><sup>2</sup> + S<sup>2</sup>(A-A<sub>o</sub>)<sup>2</sup>)<sup>0.5</sup> for A greater than A<sub>o</sub>, and P<sub>g</sub> = P<sub>o</sub>~~  
1264 ~~for A less than or equal to A<sub>o</sub>.]~~ for other locations in Utah, see Bean, B., Maguire, M., Sun, Y.  
1265 (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental  
1266 Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow  
1267 load values.

1268 [WHERE:

1269 P<sub>g</sub> = Ground snow load at a given elevation (psf);

1270 P<sub>o</sub> = Base ground snow load (psf) from Table No. R301.2(5a);

1271 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);

1272 A = Elevation above sea level at the site (ft./1,000);

1273 A<sub>o</sub> = Base ground snow elevation from Table R301.2(5a) (ft./1,000).

1274 The building official may round the roof snow load to the nearest 5 psf. The ground snow  
1275 load, P<sub>g</sub>, may be adjusted by the building official when a licensed engineer or architect submits  
1276 data substantiating the adjustments.

1277 Where the minimum roof live load in accordance with Table R301.6 is greater than the design  
1278 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to  
1279 a load lower than the design roof snow load. Drifting need not be considered for roof snow  
1280 loads less than 20 psf."]

1281           (10) In IRC, Section R302.2, the following sentence is added after the second sentence:  
1282           "When an access/maintenance agreement or easement is in place, plumbing, mechanical  
1283           ducting, schedule 40 steel gas pipe, and electric service conductors including feeders, are  
1284           permitted to penetrate the common wall at grade, above grade, or below grade."

1285           (11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced  
1286           with "self-latching hardware[<sup>u</sup>]."

1287           (12) IRC, Section R302.13, is deleted.

1288           (13) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.

1289           (14) IRC, Sections R311.7.4 through R311.7.5.3, are deleted and replaced with the  
1290           following: "R311.7.4 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser  
1291           height shall be 8 inches (203 mm). The riser shall be measured vertically between leading  
1292           edges of the adjacent treads. The greatest riser height within any flight of stairs shall not  
1293           exceed the smallest by more than 3/8 inch (9.5 mm).

1294           R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread  
1295           depth shall be measured horizontally between the vertical planes of the foremost projection of  
1296           adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within  
1297           any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder  
1298           treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point  
1299           12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a  
1300           minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
1301           greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
1302           more than 3/8 inch (9.5 mm).

1303           R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater  
1304           than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4  
1305           inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection  
1306           shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two  
1307           stories, including the nosing at the level of floors and landings. Beveling of nosing shall not  
1308           exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading  
1309           edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open  
1310           risers are permitted, provided that the opening between treads does not permit the passage of a  
1311           4-inch diameter (102 mm) sphere.

1312 Exceptions.

1313 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

1314 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches  
1315 (762 mm) or less."

1316 (15) IRC, Section R312.2, is deleted.

1317 (16) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
1318 following: "R313.1 Design and installation. When installed, automatic residential fire  
1319 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and  
1320 installed in accordance with Section P2904 or NFPA 13D."

1321 (17) In IRC, Section 315.3, the following words are added to the first sentence after the  
1322 word "installed": "on each level of the dwelling unit and[<sup>4</sup>]."

1323 (18) In IRC, Section R315.5, a new exception, 3, is added as follows:

1324 "3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the  
1325 alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing  
1326 the structure, unless there is an attic, crawl space or basement available which could provide  
1327 access for hard wiring, without the removal of interior finishes."

1328 (19) A new IRC, Section R315.7, is added as follows: " R315.7 Interconnection.

1329 Where more than one carbon monoxide alarm is required to be installed within an individual  
1330 dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in  
1331 such a manner that the actuation of one alarm will activate all of the alarms in the individual  
1332 unit. Physical interconnection of smoke alarms shall not be required where listed wireless  
1333 alarms are installed and all alarms sound upon activation of one alarm.

1334 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required  
1335 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing  
1336 the structure, unless there is an attic, crawl space or basement available which could provide  
1337 access for interconnection without the removal of interior finishes."

1338 (20) In IRC, Section R403.1.6, a new Exception 3 is added as follows: " 3. When  
1339 anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be placed  
1340 with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from  
1341 each end of each plate section at interior bearing walls, interior braced wall lines, and at all  
1342 exterior walls."

1343 (21) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and  
1344 Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816 mm)  
1345 apart, anchor bolts may be placed with a minimum of two bolts per plate section located not  
1346 less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
1347 interior braced wall lines, and at all exterior walls."

1348 (22) In IRC, Section R404.1, a new exception is added as follows: "Exception: As an  
1349 alternative to complying with Sections R404.1 through R404.1.5.3, concrete and masonry  
1350 foundation walls may be designed in accordance with IBC Sections 1807.1.5 and 1807.1.6 as  
1351 amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1352 (23) In IRC, Section R405.1, a new exception is added as follows: "Exception: When a  
1353 geotechnical report has been provided for the property, a drainage system is not required unless  
1354 the drainage system is required as a condition of the geotechnical report. The geological report  
1355 shall make a recommendation regarding a drainage system."

1356 Section 14. Section **15A-3-203** is amended to read:

1357 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

1358 (1) In IRC, Section N1101.5 (R103.2), all words after the words "herein governed." are  
1359 deleted and replaced with the following: "Construction documents include all documentation  
1360 required to be submitted in order to issue a building permit."

1361 (2) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is deleted.

1362 (3) In IRC, Section N1101.13 (R401.2), add Exception as follows:

1363 "Exception: A project complies if the project demonstrates compliance, using the  
1364 software RESCheck 2012 Utah Energy Conservation Code, of:

1365 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than  
1366 code";

1367 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than  
1368 code"; and

1369 (c) after January 1, 2021, "5 percent better than code\_2""[-]

1370 (4) In IRC, Table N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE,  
1371 a new footnote j is added as follows:

1372 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches  
1373 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31

1374 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil),  
1375 and all other component requirements are met."

1376 (5) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is  
1377 deleted and replaced with the word "or[<sup>#</sup>]."

1378 (6) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and replaced  
1379 with the following: "Where allowed by the code official, the builder may certify compliance to  
1380 components criteria for items which may not be inspected during regularly scheduled  
1381 inspections."

1382 (7) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:

1383 (a) In the first sentence:

1384 (i) "The building or dwelling unit" is deleted and replaced with "A single-family  
1385 dwelling";

1386 ~~[(i)]~~ (ii) ~~[on or]~~ after January 1, 2019, ~~[and before January 1, 2021,]~~ replace the word  
1387 "five" with "3.5"; and

1388 ~~[(ii) after January 1, 2021, replace the word "five" with "three."]~~

1389 ~~[(b) In the first sentence,]~~

1390 (iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate  
1391 Zones 3 through 8" are deleted.

1392 (b) The following sentence is inserted after the first sentence: "A multi-family dwelling  
1393 and townhouse shall be tested and verified as having an air leakage rate of not exceeding five  
1394 air changes per hour."

1395 (c) In the third sentence, the word "third" is deleted.

1396 (d) The following sentence is inserted after the third sentence: "The following parties  
1397 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed  
1398 contractors who have completed training provided by Blower Door Test equipment  
1399 manufacturers or other comparable training."

1400 (8) In IRC, Section N1103.3.3 (R403.3.3):

1401 (a) the exception for duct air leakage testing is deleted; and

1402 (b) the exception for duct air leakage is replaced:

1403 (i) on or after January 1, 2017, and before January 1, 2019, with the following:

1404 "Exception: The duct air leakage test is not required for systems with all air handlers and at



1405 least 65% of all ducts (measured by length) located entirely within the building thermal  
1406 envelope.";

1407 (ii) on or after January 1, 2019, and before January 1, 2021, with the following:

1408 "Exception: The duct air leakage test is not required for systems with all air handlers and at  
1409 least 75% of all ducts (measured by length) located entirely within the building thermal  
1410 envelope."; and

1411 (iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage  
1412 test is not required for systems with all air handlers and at least 80% of all ducts (measured by  
1413 length) located entirely within the building thermal envelope."

1414 (9) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the exception:  
1415 "The following parties shall be approved to conduct testing: Parties certified by BPI or  
1416 RESNET, or licensed contractors who have completed either training provided by Duct Test  
1417 equipment manufacturers or other comparable training."

1418 (10) In IRC, Section N1103.3.4 (R403.3.4):

1419 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,  
1420 the number 3 is changed to 6, the number 85 is changed to 114.6; and

1421 (b) in Subsection 2:

1422 (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to  
1423 8 and the number 113.3 is changed to 226.5;

1424 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to  
1425 7 and the number 113.3 is changed to 198.2; and

1426 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is  
1427 changed to 169.9.

1428 (11) In IRC, Section N1103.3.5 (R403.3.5), the words "or plenums" are deleted.

1429 (12) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6  
1430 and 7 are renumbered.

1431 (13) IRC, Section N1103.6.1 (R403.6.1), is deleted and replaced with the following:

1432 "N1103.6.1 (R403.6.1) Whole-house mechanical ventilation system fan efficacy. Fans used to  
1433 provide whole-house mechanical ventilation shall meet the efficacy requirements of Table  
1434 N1103.6.1 (R403.6.1).

1435 Exception: Where an air handler that is integral to tested and listed HVAC equipment is

1436 used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
 1437 electronically commutated motor."

1438 ~~[(13)]~~ (14) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with  
 1439 the following:

TABLE N1106.4 (R406.4)	
MAXIMUM ENERGY RATING INDEX	
CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69
6	68

1446 ~~[(14)]~~ (15) In IRC, Section M1307.2, the words "In Seismic Design Categories D0, D1,  
 1447 and D2, and in townhouses in Seismic Design Category C", are deleted, and in Subparagraph 1,  
 1448 the last sentence is deleted.

1449 ~~[(15)]~~ (16) IRC, Section M1411.8, is deleted.

1450 Section 15. Section **15A-3-205** is amended to read:

1451 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1452 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water  
 1453 supply. Where a potable public water supply is not available, individual sources of potable  
 1454 water supply shall be utilized, provided that the source has been developed in accordance with  
 1455 Utah Code, Sections [73-3-1](#) and [73-3-25](#), as administered by the Department of Natural  
 1456 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by  
 1457 the local health department having jurisdiction."

1458 (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every  
 1459 building in which plumbing fixtures are installed and all premises having drainage piping shall  
 1460 be connected to a public sewer where the sewer is accessible and is within 300 feet of the  
 1461 property line in accordance with Utah Code, Section [10-8-38](#); or an approved private sewage  
 1462 disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as  
 1463 administered by the Department of Environmental Quality, Division of Water Quality."

1464 (3) In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are deleted.

1465 (4) In IRC, Section P2705, a new Item 6 is added as follows: "6. Lavatories. A lavatory

1466 shall not be set closer than 12 inches from its center to any side wall or partition. A lavatory  
1467 shall be provided with a clearance of 24 inches in width and 21 inches in depth in front of the  
1468 lavatory to any side wall, partition, or obstruction." Remaining item numbers are renumbered  
1469 accordingly.

1470 [~~(3)~~] (5) In IRC, Section P2801.8, all words in the first sentence up to the word "water"  
1471 are deleted.

1472 [~~(4)~~] (6) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow  
1473 assembly testing. The premise owner or the premise owner's designee shall have backflow  
1474 prevention assemblies operation tested in accordance with administrative rules made by the  
1475 Drinking Water Board at the time of installation, repair, and relocation and at least on an  
1476 annual basis thereafter, or more frequently as required by the authority having jurisdiction.  
1477 Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The  
1478 assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the  
1479 Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the  
1480 Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle  
1481 Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for  
1482 backflow prevention assemblies will consist of any combination of two certifications,  
1483 laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO,  
1484 and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow  
1485 protection assemblies. Also see [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov) and rules made by the Drinking  
1486 Water Board."

1487 [~~(5)~~] (7) In IRC, Section P2902.1, the following subsections are added as follows:  
1488 "P2902.1.1 General Installation Criteria.

1489 Assemblies shall not be installed more than five feet above the floor unless a permanent  
1490 platform is installed. The assembly owner, where necessary, shall provide devices or structures  
1491 to facilitate testing, repair, and maintenance, and to insure the safety of the backflow  
1492 technician.

1493 P2902.1.2 Specific Installation Criteria.

1494 P2902.1.2.1 Reduced Pressure Principle Blackflow Prevention Assembly.

1495 The reduced pressure principle backflow prevention assembly shall be installed as  
1496 follows:

- 1497 a. The assembly may not be installed in a pit.
- 1498 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,  
1499 including a sanitary sewer, a storm drain, or a vent.
- 1500 c. The assembly shall be installed in a horizontal position only, unless listed or approved for  
1501 vertical installation in accordance with Section 303.4.
- 1502 d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or  
1503 ground.
- 1504 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1505 obstacle, and shall be readily accessible for testing, repair, and maintenance.
- 1506 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.
- 1507 A double check valve backflow prevention assembly shall be installed as follows:
- 1508 a. The assembly shall be installed in a horizontal position only, unless listed or approved for  
1509 vertical installation.
- 1510 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor.
- 1511 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1512 obstacle, and shall be readily accessible for testing, repair, and maintenance.
- 1513 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance  
1514 between all sides of the vault, including the floor and roof or ceiling, with adequate room for  
1515 testing and maintenance.
- 1516 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker  
1517 Assembly.
- 1518 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall  
1519 be installed as follows:
- 1520 a. The assembly shall not be installed in an area that could be subject to backpressure or back  
1521 drainage conditions.
- 1522 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and  
1523 the highest point of use.
- 1524 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall  
1525 be readily accessible for testing, repair, and maintenance.
- 1526 d. The assembly shall not be installed below ground, in a vault, or in a pit.
- 1527 e. The assembly shall be installed in a vertical position."

1528 (8) In IRC, Section 2903.5, at the beginning of the second sentence, insert "If  
 1529 installed,".

1530 ~~[(6)]~~ (9) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the  
 1531 following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve, shutoff  
 1532 valves shall be required on each fixture supply pipe to each plumbing appliance and to each  
 1533 plumbing fixture other than bathtubs and showers."

1534 ~~[(7)]~~ (10) IRC, Section P2910.5, is deleted and replaced with the following:  
 1535 "P2910.5 Potable water connections.

1536 When a potable water system is connected to a nonpotable water system, the potable water  
 1537 system shall be protected against backflow by a reduced pressure backflow prevention  
 1538 assembly or an air gap installed in accordance with Section 2901."

1539 ~~[(8)]~~ (11) IRC, Section P2910.9.5, is deleted and replaced with the following:  
 1540 "P2910.9.5 Makeup water.

1541 Where an uninterrupted nonpotable water supply is required for the intended application,  
 1542 potable or reclaimed water shall be provided as a source of makeup water for the storage tank.  
 1543 The makeup water supply shall be protected against backflow by means of an air gap not less  
 1544 than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow  
 1545 prevention assembly installed in accordance with Section 2902."

1546 ~~[(9)]~~ (12) In IRC, Section P2911.12.4, the following words are deleted: "and backwater  
 1547 valves[<sup>#</sup>]."

1548 ~~[(10)]~~ (13) In IRC, Section P2912.15.6, the following words are deleted: "and  
 1549 backwater valves[<sup>#</sup>]."

1550 ~~[(11)]~~ (14) In IRC, Section P2913.4.2, the following words are deleted: "and backwater  
 1551 valves[<sup>#</sup>]."

1552 ~~[(12)]~~ (15) IRC, Section P3009, is deleted and replaced with the following:  
 1553 "P3009 Connected to nonpotable water from on-site water reuse systems.

1554 Nonpotable systems utilized for subsurface irrigation for single-family residences shall comply  
 1555 with the requirements of R317-401, UAC, [~~Gray Water~~] Graywater Systems."

1556 ~~[(13)]~~ (16) In IRC, Section P3103.6, the following sentence is added at the end of the  
 1557 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the  
 1558 wall with an elbow pointing downward."

1559           ~~[(14)]~~ (17) In IRC, Section P3104.4, the following sentence is added at the end of the  
1560 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
1561 and floor sink installations when installed below grade in accordance with Chapter 30, and  
1562 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

1563           Section 16. Section **15A-3-302** is amended to read:

1564           **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

1565           ~~[(1) A new IPC, Section 101.2.1, is added as follows: "For clarification, the~~  
1566 ~~International Private Sewage Disposal Code is not part of the plumbing code even though it is~~  
1567 ~~in the same printed volume."]~~

1568           ~~[(2)]~~ (1) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is  
1569 deleted.

1570           ~~[(3)]~~ (2) In IPC, Section 202, the following definition is added: "Certified Backflow  
1571 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention  
1572 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection  
1573 [19-4-104\(4\)](#)."

1574           ~~[(4)]~~ (3) In IPC, Section 202, the following definition is added: "Contamination (High  
1575 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the  
1576 public health through poisoning or through the spread of disease by sewage, industrial fluids or  
1577 waste."

1578           ~~[(5)]~~ (4) In IPC, Section 202, the definition for "Cross Connection" is deleted and  
1579 replaced with the following: "Cross Connection. Any physical connection or potential  
1580 connection or arrangement between two otherwise separate piping systems, one of which  
1581 contains potable water and the other either water of unknown or questionable safety or steam,  
1582 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
1583 with the direction of flow depending on the pressure differential between the two systems (see  
1584 "Backflow")."

1585           ~~[(6)]~~ (5) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A  
1586 manufactured or field fabricated trap with a liquid seal of 4" or larger."

1587           ~~[(7)]~~ (6) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is  
1588 deleted and replaced with the following:

1589 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1,

1590 including propylene glycol; and mineral oil."

1591 ~~[(8)]~~ (7) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is  
1592 deleted and replaced with the following:

1593 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is  
1594 not an essentially nontoxic transfer fluid under this code."

1595 ~~[(9)]~~ (8) In IPC, Section 202, the following definition is added: "High Hazard. See  
1596 Contamination."

1597 ~~[(10)]~~ (9) In IPC, Section 202, the following definition is added: "Low Hazard. See  
1598 Pollution."

1599 ~~[(11)]~~ (10) In IPC, Section 202, the following definition is added: "Motor Vehicle  
1600 Waste Disposal Well. An injection well that discharges to the subsurface by way of a floor  
1601 drain, septic system, French drain, dry well, or similar system that receives or has received  
1602 fluid from a facility engaged in vehicular repair or maintenance activities, including an auto  
1603 body repair shop, automotive repair shop, new and used car dealership, speciality repair shop,  
1604 or any other facility that does any vehicular repair work. A motor vehicle waste disposal well is  
1605 subject to rulemaking under Section 19-5-104 regarding underground injection."

1606 ~~[(12)]~~ (11) In IPC, Section 202, the following definition is added: "Pollution (Low  
1607 Hazard). An impairment of the quality of the potable water to a degree that does not create a  
1608 hazard to the public health but that does adversely and unreasonably affect the aesthetic  
1609 qualities of such potable water for domestic use."

1610 ~~[(13)]~~ (12) In IPC, Section 202, the definition for "Potable Water" is deleted and  
1611 replaced with the following: "Potable Water. Water free from impurities present in amounts  
1612 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,  
1613 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and  
1614 the regulations of the public health authority having jurisdiction."

1615 Section 17. Section 15A-3-303 is amended to read:

1616 **15A-3-303. Amendments to Chapter 3 of IPC.**

1617 (1) In IPC, Section 303.4, the following exception is added:

1618 "Exception: Third-party certification for backflow prevention assemblies will consist of any  
1619 combination of two certifications, laboratory or field. Acceptable third party laboratory  
1620 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently

1621 provides the only field testing of backflow protection assemblies. Also see  
1622 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code,  
1623 [~~R309-305-6~~] R309-105-12(4)."

1624 (2) IPC, Section 311.1, is deleted.

1625 (3) In IPC, Section 312.3, the following is added at the end of the paragraph:

1626 "Where water is not available at the construction site or where freezing conditions limit  
1627 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be  
1628 tested with air. The following procedures shall be followed:

1629 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can  
1630 explode, causing serious injury or death.

1631 2. Contractor assumes all liability for injury or death to persons or damage to property or for  
1632 claims for labor and/or material arising from any alleged failure of the system during testing  
1633 with air or compressed gasses.

1634 3. Proper personal protective equipment, including safety eyewear and protective headgear,  
1635 should be worn by all individuals in any area where an air or gas test is being conducted.

1636 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1637 5. No drain and vent system shall be pressurized in excess of 6 psi as measured by accurate  
1638 gauges graduated to no more than three times the test pressure.

1639 6. The pressure gauge shall be monitored during the test period, which should not exceed 15  
1640 minutes.

1641 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or  
1642 gases should be vented, and test balls and plugs should be removed with caution."

1643 (4) In IPC, Section 312.5, the following is added at the end of the paragraph:

1644 "Where water is not available at the construction site or where freezing conditions limit the use  
1645 of water on the construction site, plastic water pipes may be permitted to be tested with air.

1646 The following procedures shall be followed:

1647 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can  
1648 explode, causing serious injury or death.

1649 2. Contractor assumes all liability for injury or death to persons or damage to property or for  
1650 claims for labor and/or material arising from any alleged failure of the system during testing  
1651 with air or compressed gasses.



- 1652 3. Proper personal protective equipment, including safety eyewear and protective headgear,  
1653 should be worn by all individuals in any area where an air or gas test is being conducted.  
1654 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.  
1655 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80  
1656 psi as measured by accurate gauges graduated to no more than three times the test pressure.  
1657 6. The pressure gauge shall be monitored during the test period, which should not exceed 15  
1658 minutes.  
1659 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or  
1660 gases should be vented, and test balls and plugs should be removed with caution."

1661 (5) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.  
1662 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in  
1663 accordance with Utah Administrative Code, R309-305."

1664 Section 18. Section **15A-3-304** is amended to read:

1665 **15A-3-304. Amendments to Chapter 4 of IPC.**

1666 (1) In IPC, Table 403.1, the following changes are made:

1667 [~~(a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,  
1668 Minimum Number of Required Plumbing Fixtures, h";~~]

1669 [~~(b)~~ (a) In row number "3", for [~~"E" occupancy~~], in the field for "OTHER", a new  
1670 footnote [g] h is added.

1671 [~~(c)~~ (b) In row number "5", for [~~"I-4"] Adult day care and child day care~~] occupancy, in  
1672 the field for "OTHER", a new footnote [g] h is added.

1673 (c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
1674 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
1675 accordance with Utah Administrative Code, R392-302 Design, Construction and Operation of  
1676 Public Pools."

1677 (d) A new footnote [f] g is added as follows: "FOOTNOTE: [f:] g: When provided, in  
1678 public toilet facilities, there shall be an equal number of diaper changing facilities in male toilet  
1679 rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of  
1680 ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper  
1681 Changing Tables for Commercial Use."

1682 (e) A new footnote [g] h is added to the table as follows: "FOOTNOTE [g] h:

1683 Non-residential child care facilities shall comply with the additional sink requirements [for  
1684 ~~sinks in administrative rule made by the Department of Health~~] of Utah Administrative Code,  
1685 R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care Programs,  
1686 and R381-100-9, Child Care Centers."

1687 (2) A new IPC, Section 406.3, is added as follows: " 406.3 Automatic clothes washer  
1688 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in  
1689 accordance with Section 504.7."

1690 (3) A new IPC, Section ~~[412.5]~~ 413.5, is added as follows: "~~[412.5]~~ 413.5 Public toilet  
1691 rooms. All public toilet rooms [~~in A & E occupancies and M occupancies with restrooms~~  
1692 ~~having multiple water closets or urinals~~] shall be equipped with at least one floor drain."

1693 (4) A new IPC, Section 412.6, is added as follows: "Prohibition of motor vehicle waste  
1694 disposal wells. New and existing motor vehicle waste disposal wells are prohibited. A motor  
1695 vehicle waste disposal well associated with a single family residence is not subject to this  
1696 prohibition."

1697 (5) IPC, Section 423.3, is deleted.

1698 Section 19. Section **15A-3-305** is amended to read:

1699 **15A-3-305. Amendments to Chapter 5 of IPC.**

1700 (1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic  
1701 supports. As a minimum requirement, water heaters shall be anchored or strapped to resist  
1702 horizontal displacement caused by earthquake motion. Strapping shall be at points within the  
1703 upper one-third and lower one-third of the appliance's vertical dimensions. "

1704 (2) In IPC, Section 504.6, a new number 15 is added as follows: "15. Be installed in  
1705 accordance with the manufacturer's installation instructions, not to exceed 180 degrees in  
1706 directional change."

1707 [~~(2)~~] (3) In IPC, Section 504.7.2, the following is added at the end of the section:

1708 "When permitted by the code official, the pan drain may be directly connected to a soil stack,  
1709 waste stack, or branch drain. The pan drain shall be individually trapped and vented as

1710 required in Section 907.1. The pan drain shall not be directly or indirectly connected to any  
1711 vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044,  
1712 a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1713 [~~(3)~~] (4) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation.

1714 A water heater pan shall be considered an emergency receptor designated to receive the  
1715 discharge of water from the water heater only and shall not receive the discharge from any  
1716 other fixtures, devices, or equipment."

1717 Section 20. Section **15A-3-306** is amended to read:

1718 **15A-3-306. Amendments to Chapter 6 of IPC.**

1719 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual  
1720 water supply. Where a potable public water supply is not available, individual sources of  
1721 potable water supply shall be utilized provided that the source has been developed in  
1722 accordance with Utah Code, Sections [73-3-1](#), [73-3-3](#), and [73-3-25](#), as administered by the  
1723 Department of Natural Resources, Division of Water Rights. In addition, the quality of the  
1724 water shall be approved by the local health department having jurisdiction. The source shall  
1725 supply sufficient quantity of water to comply with the requirements of this chapter."

1726 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are  
1727 deleted.

1728 (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated  
1729 metering faucets for food service establishments. Self closing or manually operated metering  
1730 faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the  
1731 faucet."

1732 (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water  
1733 pressure booster systems. Water pressure booster systems shall be provided as required by  
1734 Section 606.5.1 through 606.5.11."

1735 (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited  
1736 installation. In no case shall a booster pump be allowed that will lower the pressure in the  
1737 public main to less than the minimum water pressure specified in Utah Administrative Code  
1738 R309-105-9."

1739 (6) In IPC, Section 608.1, the words "and pollution" are added after the word  
1740 "contamination."

1741 (7) In IPC, Section 608.1, the following subsections are added as follows:

1742 "608.1.1 General Installation Criteria.

1743 An assembly shall not be installed more than five feet above the floor unless a permanent  
1744 platform is installed. The assembly owner, where necessary, shall provide devices or structures

1745 to facilitate testing, repair, and maintenance and to insure the safety of the backflow technician.

1746 608.1.2 Specific Installation Criteria.

1747 608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.

1748 A reduced pressure principle backflow prevention assembly shall be installed as follows:

1749 a. The assembly shall not be installed in a pit or below grade where the relief port could be  
1750 submerged in water or where fumes could be present at the relief port discharge.

1751 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,  
1752 including a sanitary sewer, storm drain, or vent.

1753 c. The assembly shall be installed in a horizontal position, unless the assembly is listed or  
1754 approved for vertical installation in accordance with Section 303.4.

1755 d. The bottom of each assembly shall be installed a minimum of 12 inches above the ground or  
1756 the floor.

1757 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1758 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1759 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

1760 A double check valve backflow prevention assembly shall be installed as follows:

1761 a. The assembly shall be installed in a horizontal position unless the assembly is listed or  
1762 approved for vertical installation.

1763 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the floor.

1764 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1765 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1766 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance  
1767 around all sides of the vault, including the floor and roof or ceiling, with adequate room for  
1768 testing and maintenance.

1769 608.1.2.3 Pressure Vacuum [~~Break~~] Breaker Assembly and Spill Resistant Pressure Vacuum  
1770 Breaker Assembly.

1771 A pressure vacuum [~~break~~] breaker assembly and spill resistant pressure vacuum breaker  
1772 assembly shall be installed as follows:

1773 a. The assembly shall not be installed in an area that could be subject to backpressure or back  
1774 drainage conditions.

1775 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and

1776 the highest point of use.

1777 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall  
1778 be readily accessible for testing, repair, and maintenance.

1779 d. The assembly shall not be installed below ground or in a vault or pit.

1780 e. The assembly shall be installed in a vertical position."

1781 (8) In IPC, Section 608.3, the word "and" ~~[after]~~ before the word "contamination" is  
1782 deleted and replaced with a comma and the words "[~~and~~] or pollution" are added after the word  
1783 "contamination" in the first sentence.

1784 (9) In IPC, Section ~~[608.5]~~ 608.6, the words "with the potential to create a condition of  
1785 either contamination or pollution or" are added after the word "substances."[:]

1786 (10) In IPC, Section ~~[608.6]~~ 608.7, the following sentence is added at the end of the  
1787 paragraph: "Any connection between potable water piping and sewer-connected waste shall be  
1788 protected by an air gap in accordance with Section ~~[608.13.1]~~ 608.14.1."

1789 (11) IPC, Section ~~[608.7]~~ 608.8, is deleted and replaced with the following: "~~[608.7]~~  
1790 608.8 Stop and Waste Valves installed below grade. Combination stop-and-waste valves shall  
1791 be permitted to be installed underground or below grade. Freeze proof yard hydrants that drain  
1792 the riser into the ground are considered to be stop-and-waste valves and shall be permitted. A  
1793 stop-and-waste valve shall be installed in accordance with a manufacturer's recommended  
1794 installation instructions."

1795 ~~[(12) In IPC, Section 608.11, the following sentence is added at the end of the~~  
1796 ~~paragraph: "The coating and installation shall conform to NSF Standard 61 and application of~~  
1797 ~~the coating shall comply with the manufacturer's instructions."]~~

1798 ~~[(13)]~~ (12) IPC, Section ~~[608.13.3]~~ 608.14.3, is deleted and replaced with the  
1799 following: "~~[608.13.3]~~ 608.14.3 Backflow preventer with intermediate atmospheric vent.  
1800 Backflow preventers with intermediate atmospheric vents shall conform to ASSE 1012 or CSA  
1801 CAN/CSA-B64.3. These devices shall be permitted to be installed on residential boilers  
1802 [~~only~~], without chemical treatment, where subject to continuous pressure conditions, and  
1803 humidifiers in accordance with Section 608.17.10. The relief opening shall discharge by air  
1804 gap and shall be prevented from being submerged."

1805 ~~[(14)]~~ (13) IPC, Section ~~[608.13.4]~~ 608.14.4, is deleted.

1806 ~~[(15) IPC, Section 608.13.9, is deleted and replaced with the following: "608.13.9~~

1807 ~~Chemical dispenser backflow devices. Backflow devices for chemical dispensers shall comply~~  
1808 ~~with Section 608.16.7."~~

1809 [(16)] (14) IPC, Section [608.15.3] 608.16.3, is deleted and replaced with the  
1810 following: "[608.15.3] 608.16.3 Protection by a backflow preventer with intermediate  
1811 atmospheric vent. Connections to residential boilers only, without chemical treatment, and  
1812 humidifiers shall be protected by a backflow preventer with an intermediate atmospheric vent."

1813 [(17)] (15) IPC, Section [608.15.4] 608.16.4, is deleted and replaced with the  
1814 following: "[608.15.4] 608.16.4 Protection by a vacuum breaker. Openings and outlets shall be  
1815 protected by atmospheric-type or pressure-type vacuum breakers. Vacuum breakers shall not  
1816 be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors.  
1817 Fill valves shall be set in accordance with Section 425.3.1. Atmospheric Vacuum Breakers -  
1818 The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152  
1819 mm) above the flood level rim of the fixture or device. Pipe-applied vacuum breakers shall be  
1820 installed not less than 6 inches (152 mm) above the flood level rim of the fixture, receptor, or  
1821 device served. No valves shall be installed downstream of the atmospheric vacuum breaker.  
1822 The atmospheric vacuum breaker shall not be installed where it may be subjected to continuous  
1823 pressure for more than 12 consecutive hours at any time. Pressure Vacuum Breaker - The  
1824 critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm)  
1825 above the flood level of the fixture or device."

1826 [(18)] (16) In IPC, Section [608.15.4.2] 608.16.4.2, the following is added after the  
1827 first sentence: "Add-on-backflow prevention devices shall be non-removable. In climates  
1828 where freezing temperatures occur, a listed self-draining frost proof hose bibb with an integral  
1829 backflow preventer shall be used."

1830 (17) In IPC, Section 608.17.1.2, the words "or ASSE 1024" are deleted.

1831 [(19)] (18) IPC, Section [608.16.2] 608.17.2, is deleted and replaced as follows:  
1832 "[608.16.2] 608.17.2 Connections to boilers. The potable supply to a boiler shall be protected  
1833 by an air gap or a reduced pressure principle backflow preventer, complying with ASSE 1013,  
1834 CSA B64.4 or AWWA C511.

1835 Exception: The potable supply to a residential boiler without chemical treatment may be  
1836 equipped with a backflow preventer with an intermediate atmospheric vent complying with  
1837 ASSE 1012 or CSA CAN/CSA-B64.3."

1838           ~~[(20)]~~ (19) In IPC, Section ~~[608.16.4.1]~~ 608.17.4.1, a new exception is added as  
1839 follows: "Exception: All class 1 and 2 systems containing chemical additives consisting of  
1840 strictly glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected  
1841 against backflow with a double check valve assembly. Such systems shall include written  
1842 certification of the chemical additives at the time of original installation and service or  
1843 maintenance."

1844           ~~[(21)]~~ (20) IPC, Section ~~[608.16.7]~~ 608.17.7, is deleted and replaced with the  
1845 following: "~~[608.16.7]~~ 608.17.7 Chemical dispensers. Where chemical dispensers connect to  
1846 the water distribution system, the water supply system shall be protected against backflow in  
1847 accordance with Section ~~[608.13.1]~~ 608.14.1, Section ~~[608.13.2]~~ 608.14.2, Section ~~[608.13.5]~~  
1848 608.14.5, Section ~~[608.13.6]~~ 608.14.6 or Section ~~[608.13.8]~~ 608.14.8. Installation shall be in  
1849 accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated  
1850 water supply line, and not a sink faucet."

1851           ~~[(22)]~~ (21) IPC, Section ~~[608.16.8]~~ 608.17.8, is deleted and replaced with the  
1852 following: "~~[608.16.8]~~ 608.17.8 Portable cleaning equipment. Where the portable cleaning  
1853 equipment connects to the water distribution system, the water supply system shall be protected  
1854 against backflow in accordance with Section ~~[608.13.1]~~ 608.14.1 or Section ~~[608.13.2]~~  
1855 608.14.2."

1856           ~~[(23)]~~ (22) A new IPC, Section ~~[608.16.11]~~ 608.17.11, is added as follows:  
1857 "~~[608.16.11]~~ 608.17.11 Automatic and coin operated car washes. The water supply to an  
1858 automatic or coin operated car wash shall be protected in accordance with Section ~~[608.13.1]~~  
1859 608.14.1 or Section ~~[608.13.2]~~ 608.14.2."

1860           ~~[(24)]~~ (23) IPC, Section ~~[608.17]~~ 608.18, is deleted and replaced with the following:  
1861 "~~[608.17]~~ 608.18 Protection of individual water supplies. See Section 602.3 for requirements."

1862           Section 21. Section **15A-3-307** is amended to read:

1863           **15A-3-307. Amendments to Chapter 7 of IPC.**

1864           (1) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer  
1865 required. Every building in which plumbing fixtures are installed and all premises having  
1866 drainage piping shall be connected to a public sewer where the sewer is accessible and is  
1867 within 300 feet of the property line in accordance with Utah Code, Section **10-8-38**; or an  
1868 approved private sewage disposal system in accordance with Utah Administrative Code, Rule

1869 R317-4, as administered by the Department of Environmental Quality, Division of Water  
1870 Quality."

1871 (2) A new IPC Section 701.8 is added as follows: "701.8 Drainage piping in food  
1872 service areas. Exposed soil or waste piping shall not be installed above any working, storage, or  
1873 eating surfaces in food service establishments."

1874 ~~[(2)]~~ (3) In IPC, Section 712.3.3.1, the following words are added ~~[before]~~ after the  
1875 word ~~["or"]~~ "PE": "stainless steel, cast iron, galvanized steel, brass,".

1876 Section 22. Section **15A-3-310** is amended to read:

1877 **15A-3-310. Amendments to Chapter 10 of IPC.**

1878 ~~[IPC, Chapter 10, is not amended.]~~ In IPC, Section 1003.3.8, the word "gravity" is  
1879 inserted before the word "grease."

1880 Section 23. Section **15A-3-314** is amended to read:

1881 **15A-3-314. Amendments to Chapter 14 of IPC.**

1882 IPC, Chapter 14, is deleted and replaced with the following:

1883 "1401. Subsurface Landscape Irrigation Systems.

1884 ~~[Gray water]~~ Graywater recycling systems utilized for subsurface irrigation for single-family  
1885 residences shall comply with the requirements of UAC R317-401, ~~[Gray Water]~~ Graywater  
1886 Systems. ~~[Gray water]~~ Graywater recycling systems utilized for subsurface irrigation for other  
1887 occupancies shall comply with UAC R317-3, Design Requirements for Wastewater Collection,  
1888 Treatment, and Disposal Systems, and UAC R317-4, Onsite ~~[Waterwaste]~~ Wastewater  
1889 Systems."

1890 Section 24. Section **15A-3-401** is amended to read:

1891 **15A-3-401. General provisions.**

1892 (1) The amendments in this part are adopted as amendments to the IMC to be  
1893 applicable statewide.

1894 (2) In IMC, Section 1004.2, the first sentence is deleted and replaced with the  
1895 following: " In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by  
1896 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor  
1897 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in  
1898 private residences or in apartment houses of less than five family units. Boilers shall be  
1899 installed in accordance with their listing and labeling, with minimum clearances as prescribed



1900 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

1901 (3) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".

1902 [~~(4) IMC, Section 1101.10, is deleted.~~]

1903 [~~(5)~~] (4) In IMC, Section 1209.3, the following words are added at the end of the

1904 section: "or other methods approved for the application."

1905 Section 25. Section **15A-3-501** is amended to read:

1906 **15A-3-501. General provisions.**

1907 The following are adopted as an amendment to the IFGC to be applicable statewide:

1908 (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter

1909 protection. Fuel gas services shall be in an approved location and/or provided with structures

1910 designed to protect the fuel gas meter and surrounding piping from physical damage, including

1911 falling, moving, or migrating ice and snow. If an added structure is used, it must still provide

1912 access for service and comply with the IBC or the IRC."

1913 (2) IFGC, Section 409.5.3, is deleted.

1914 (3) In IFGC, Section 502.1, the last sentence is deleted and replaced with "Plastic vents

1915 for Category IV appliances shall not be required to be listed and labeled where such vents

1916 comply with all of the following:

1917 1. specified by the appliance manufacturer;

1918 2. installed in accordance with the appliance manufacturer's instructions; and

1919 3. the vent gas temperatures do not exceed 140 degrees Fahrenheit."

1920 (4) In IFGC, Section 503.4.1, in the last sentence after "appliance manufacturer" insert:

1921 "where the appliance vent gas temperatures do not exceed 140 degrees Fahrenheit,".

1922 (5) In IFGC, Section 503.6.11.1, the following exception is added:

1923 "Exception: Existing and replacement Category I appliances may be located in rooms within

1924 the occupiable space provided all the following are met:

1925 1. The original installation was compliant with existing codes at the time of installation.

1926 2. The dwelling is equipped with a current, operable carbon monoxide detector, installed in

1927 accordance with Section 915 of the International Building Code.

1928 3. The AHJ has approved a replacement based on the extreme difficulty of an installing

1929 individual Category I vent system or a direct vent Category IV appliance.

1930 4. The room or space is used for no other purpose.

1931 5. Combustion air is provided in accordance with Section 304. Where outdoor combustion air  
1932 is provided, the room has a solid weather-stripped door equipped with an approved self-closure  
1933 device.

1934 6. Common vents terminate with a listed cap."

1935        ~~[(3)]~~ (6) In IFGC, Section 631.2, the following sentence is inserted before the first  
1936 sentence: " In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by  
1937 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor  
1938 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in  
1939 private residences or in apartment houses of less than five family units. Boilers shall be  
1940 installed in accordance with their listing and labeling, with minimum clearances as prescribed  
1941 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

1942        Section 26. Section **15A-3-701** is amended to read:

1943        **15A-3-701. General provisions.**

1944        The following is adopted as an amendment to the IECC to be applicable statewide:

1945        (1) In IECC, Section [~~C403.2.9.1.3~~] C403.11.2.3, the words "by the designer" are  
1946 deleted.

1947        (2) In IECC, Section R103.2, all words after the words "herein governed." are deleted  
1948 and replaced with the following: "Construction documents include all documentation required  
1949 to be submitted in order to issue a building permit."

1950        (3) In IECC, Section R303.3, all wording after the first sentence is deleted.

1951        (4) In IECC, Section R401.2, a new number 4 is added as follows:

1952        "4. Compliance may be shown by demonstrating a result, using the software  
1953 RESCheck 2012 Utah Energy Conservation Code, of:

1954        (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than  
1955 code";

1956        (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than  
1957 code"; and

1958        (c) after January 1, 2021, "5 percent better than code".

1959        (5) In IECC, Table R402.2, in the column entitled MASS WALL R-VALUE, a new  
1960 footnote j is added as follows:

1961 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches

1962 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31  
 1963 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil, 84  
 1964 AFUE, and all other component requirements are met."

1965 (6) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and  
 1966 replaced with the word "or".

1967 (7) In IECC, Section R402.4.1.1, the last sentence is deleted and replaced with the  
 1968 following: "Where allowed by the code official, the builder may certify compliance to  
 1969 components criteria for items which may not be inspected during regularly scheduled  
 1970 inspections."

1971 (8) In IECC, Section R402.4.1.2, the following changes are made:

1972 (a) In the first sentence:

1973 (i) "The building or dwelling unit" is deleted and replaced with "A single-family  
 1974 dwelling";

1975 ~~[(i)]~~ (ii) ~~[on or]~~ after January 1, 2019, ~~[and before January 1, 2021,]~~ replace the word  
 1976 "five" with "3.5"; and

1977 ~~[(ii) after January 1, 2021, replace the word "five" with "three."]~~

1978 ~~[(b) In the first sentence,]~~

1979 (iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate  
 1980 Zones 3 through 8" are deleted.

1981 (b) The following sentence is inserted after the first sentence: "A multi-family dwelling  
 1982 and townhouse shall be tested and verified as having an air leakage rate of not exceeding five  
 1983 air changes per hour."

1984 (c) In the third sentence, the word "third" is deleted.

1985 (d) The following sentence is inserted after the third sentence: "The following parties  
 1986 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed  
 1987 contractors who have completed training provided by Blower Door Test equipment  
 1988 manufacturers or other comparable training."

1989 (9) In IECC, Section R403.3.3:

1990 (a) the exception for duct air leakage testing is deleted; and

1991 (b) the exception for duct air leakage is replaced:

1992 (i) on or after January 1, 2017, and before January 1, 2019, with the following:

1993 "Exception: The total leakage test is not required for systems with all air handlers and at least  
1994 65% of all ducts (measured by length) located entirely within the building thermal envelope.";

1995 (ii) on or after January 1, 2019, and before January 1, 2021, with the following:

1996 "Exception: The duct air leakage test is not required for systems with all air handlers and at  
1997 least 75% of all ducts (measured by length) located entirely within the building thermal  
1998 envelope."; and

1999 (iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage  
2000 test is not required for systems with all air handlers and at least 80% of all ducts (measured by  
2001 length) located entirely within the building thermal envelope."

2002 (10) In IECC, Section R403.3.3, the following is added after the exception:

2003 "The following parties shall be approved to conduct testing:

2004 1. Parties certified by BPI or RESNET.

2005 2. Licensed contractors who have completed training provided by Duct Test equipment  
2006 manufacturers or other comparable training."

2007 (11) In IECC, Section R403.3.4:

2008 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,  
2009 the number 3 is changed to 6, and the number 85 is changed to 114.6; and

2010 (b) in Subsection 2:

2011 (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to  
2012 8 and the number 113.3 is changed to 226.5;

2013 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to  
2014 7 and the number 113.3 is changed to 198.2; and

2015 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is  
2016 changed to 169.9.

2017 (12) In IECC, Section R403.3.5, the words "or plenums" are deleted.

2018 (13) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are  
2019 renumbered.

2020 (14) IECC, Section R403.6.1, is deleted and replaced with the following: "R403.6.1  
2021 Whole-house mechanical ventilation system fan efficacy. Fans used to provide whole-house  
2022 mechanical ventilation shall meet the efficacy requirements of Table R403.6.1.

2023 Exception: Where an air handler that is integral to tested and listed HVAC equipment is

2024 used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
2025 electronically commutated motor."

2026 [~~14~~] (15) In IECC, Section R406.4, the table is deleted and replaced with the  
2027 following:

2028 TABLE R406.4

2029 MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69
6	68

2034 Section 27. Section **15A-3-801** is amended to read:

2035 **15A-3-801. General provisions.**

2036 The following are adopted as amendments to the IEBC and are applicable statewide:

2037 (1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See  
2038 Code Official."

2039 (2) In Section 202, the definition for "code official" is deleted and replaced with the  
2040 following:

2041 "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)  
2042 charged with the administration and enforcement of this code."

2043 (3) In Section 202, the definition for existing buildings is deleted and replaced with the  
2044 following:

2045 "EXISTING BUILDING. A building that is not a dangerous building and that was either  
2046 lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the  
2047 code official."

2048 (4) In Section [~~301.1~~] 301.3, the exception is deleted.

2049 (5) Section [~~403.5~~] 503.6 is deleted and replaced with the following:

2050 "[~~403.5~~] 503.6 Bracing for unreinforced masonry parapets and other appendages upon  
2051 reroofing.

2052 Where the intended alteration requires a permit for reroofing and involves removal of roofing

2053 materials from more than 25% of the roof area of a building assigned to Seismic Design  
2054 Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such  
2055 as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of  
2056 bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of  
2057 such items. ~~[For purposes of this section, design seismic forces need not be taken greater than~~  
2058 ~~75% of those that would be required for the design of similar nonstructural components in new~~  
2059 ~~buildings of similar purpose and location]~~ Reduced seismic forces are permitted for design  
2060 purposes."

2061 (6) In Section 705.1, Exception number 3, the following is added at the end of the  
2062 exception:

2063 "This exception does not apply if the existing facility is undergoing a change of occupancy  
2064 classification."

2065 (7) Section ~~[707.3.1]~~ 706.3.1 is deleted and replaced with the following:

2066 "~~[707.3.1]~~ 706.3.1 Bracing for unreinforced masonry bearing wall parapets and other  
2067 appendages.

2068 Where a permit is issued for reroofing more than 25 percent of the roof area of a building  
2069 assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced  
2070 masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work  
2071 shall include installation of bracing to resist the reduced International Building Code level  
2072 seismic forces as specified in Section ~~[301.1.4.2]~~ 303 of this code unless an evaluation  
2073 demonstrates compliance of such items."

2074 (8) Section 906.6 is deleted and replaced with the following:

2075 "906.6 Bracing for unreinforced masonry parapets and other appendages upon  
2076 reroofing.

2077 Where the intended alteration requires a permit for reroofing and involves removal of  
2078 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
2079 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
2080 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
2081 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
2082 compliance with such items. Reduced seismic forces are permitted for design purposes."

2083 ~~[(8)]~~ (9) (a) Section ~~[1007.3.1]~~ 1006.3 is deleted and replaced with the following:

2084 [~~"1007.3.1 Compliance with the International Building Code Level Seismic Forces:~~  
 2085 ~~When a building or portion thereof is subject to a change of occupancy such that a change in~~  
 2086 ~~the nature of the occupancy results in a higher risk category based on Table 1604.5 of the~~  
 2087 ~~International Building Code or when such change of occupancy results in a design occupant~~  
 2088 ~~load increase of 100% or more, the building shall conform to the seismic requirements of the~~  
 2089 ~~International Building Code for the new risk category."~~]

2090 "1006.3 Seismic Loads. Where a change of occupancy results in a building being  
 2091 assigned to a higher risk category, or when a change of occupancy results in a design occupant  
 2092 load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of  
 2093 the International Building Code using full seismic forces."

2094 (b) Section [~~1007.3.1~~] 1006.3, exceptions 1 through 3 remain unchanged.

2095 (c) In Section [~~1007.3.1~~] 1006.3, add a new exception 4 as follows:

2096 "4. Where the design occupant load increase is less than 25 occupants and the occupancy  
 2097 category does not change."

2098 [~~(9)~~] (10) In Section 1012.7.3, exception 2 is deleted.

2099 [~~(10)~~] (11) In Section 1012.8.2, number 7 is added as follows:

2100 "7. When a change of occupancy in a building or portion of a building results in a Group R-2  
 2101 occupancy, not less than 20% of the dwelling or sleeping units shall be Type B dwelling or  
 2102 sleeping units. These dwelling or sleeping units may be located on any floor of the building  
 2103 provided with an accessible route. Two percent, but not less than one unit, of the dwelling or  
 2104 sleeping units shall be Type A dwelling units."

2105 Section 28. Section **15A-4-107** is amended to read:

2106 **15A-4-107. Amendments to IBC applicable to Sandy City.**

2107 The following amendments are adopted as amendments to the IBC for Sandy City:

2108 (1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic  
 2109 sprinkler system shall be installed in accordance with NFPA 13 throughout buildings  
 2110 containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table  
 2111 B105.1 (2) of the [~~2015~~] 2018 International Fire Code. A one- or two-family dwelling or a  
 2112 town home is not required to have a fire sprinkler system except in accordance with Section  
 2113 15A-5-203."

2114 (2) A new IBC, Appendix [~~E~~] N, is added and adopted as follows: "Appendix [~~E~~] N

2115 BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS  
2116 WILDLAND-URBAN INTERFACE AREAS  
2117 AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban  
2118 Interface Areas by Sandy City shall be constructed using ignition resistant construction as  
2119 determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban  
2120 Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to  
2121 determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International  
2122 Wildland-Urban Interface Code, as modified herein, shall be used to determine the  
2123 requirements for Ignition Resistant Construction."

2124 (3) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new  
2125 Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7  
2126 shall only be required on the exposure side of the structure, as determined by the fire code  
2127 official, where defensible space is less than 50 feet as defined in Section 603 of the 2006  
2128 International Wildland-Urban Interface Code."

2129 (4) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION  
2130 Subsections 505.5 and 505.7 are deleted.

2131 Section 29. Section **17-36-55** is amended to read:

2132 **17-36-55. Fees collected for construction approval -- Approval of plans.**

2133 (1) As used in this section:

2134 (a) "Construction project" means the same as that term is defined in Section [38-1a-102](#).

2135 (b) "Lodging establishment" means a place providing temporary sleeping  
2136 accommodations to the public, including any of the following:

2137 (i) a bed and breakfast establishment;

2138 (ii) a boarding house;

2139 (iii) dormitory;

2140 (iv) a hotel;

2141 (v) an inn;

2142 (vi) a lodging house;

2143 (vii) a motel;

2144 (viii) a resort; or

2145 (ix) a rooming house.



- 2146 (c) "Planning review" means a review to verify that a county has approved the  
2147 following elements of a construction project:
- 2148 (i) zoning;
  - 2149 (ii) lot sizes;
  - 2150 (iii) setbacks;
  - 2151 (iv) easements;
  - 2152 (v) curb and gutter elevations;
  - 2153 (vi) grades and slopes;
  - 2154 (vii) utilities;
  - 2155 (viii) street names;
  - 2156 (ix) defensible space provisions and elevations, if required by the Utah Wildland Urban  
2157 Interface Code adopted under Section [15A-2-103](#); and
  - 2158 (x) subdivision.
- 2159 (d) (i) " Plan review" means all of the reviews and approvals of a plan that a county  
2160 requires to obtain a building permit from the county with a scope that may not exceed a review  
2161 to verify:
- 2162 (A) that the construction project complies with the provisions of the State Construction  
2163 Code under Title 15A, State Construction and Fire Codes Act;
  - 2164 (B) that the construction project complies with the energy code adopted under Section  
2165 [15A-2-103](#);
  - 2166 (C) that the construction project received a planning review;
  - 2167 (D) that the applicant paid any required fees;
  - 2168 (E) that the applicant obtained final approvals from any other required reviewing  
2169 agencies;
  - 2170 (F) that the construction project complies with federal, state, and local storm water  
2171 protection laws;
  - 2172 (G) that the construction project received a structural review; and
  - 2173 (H) the total square footage for each building level of finished, garage, and unfinished  
2174 space.
- 2175 (ii) " Plan review" does not mean a review of a document:
- 2176 (A) required to be re-submitted for additional modifications or substantive changes

2177 identified by the plan review;

2178 (B) submitted as part of a deferred submittal when requested by the applicant and  
2179 approved by the building official; or

2180 (C) that, due to the document's technical nature or on the request of the applicant, is  
2181 reviewed by a third party.

2182 (e) "State Construction Code" means the same as that term is defined in Section  
2183 [15A-1-102](#).

2184 (f) "State Fire Code" means the same as that term is defined in Section [15A-1-102](#).

2185 ~~(e)~~ (g) "Structural review" means:

2186 (i) a review that verifies that a construction project complies with the following:

2187 (A) footing size and bar placement;

2188 (B) foundation thickness and bar placement;

2189 (C) beam and header sizes;

2190 (D) nailing patterns;

2191 (E) bearing points;

2192 (F) structural member size and span; and

2193 (G) sheathing; or

2194 (ii) if the review exceeds the scope of the review described in Subsection (1)(e)(i), a  
2195 review that a licensed engineer conducts.

2196 ~~(f)~~ (h) "Technical nature" means a characteristic that places an item outside the  
2197 training and expertise of an individual who regularly performs plan reviews.

2198 (2) (a) If a county collects a fee for the inspection of a construction project, the county  
2199 shall ensure that the construction project receives a prompt inspection.

2200 (b) If a county cannot provide a building inspection within three business days, the  
2201 county shall promptly engage an independent inspector with fees collected from the applicant.

2202 (c) If an inspector identifies one or more violations of the State Construction Code or  
2203 State Fire Code during an inspection, on the day on which the inspection occurs, the inspector  
2204 shall give the permit holder written notification of each violation that:

2205 (i) is delivered in hardcopy or by electronic means; and

2206 (ii) upon request by the permit holder, includes a reference to each applicable provision  
2207 of the State Construction Code or State Fire Code.

2208 (3) (a) A county shall complete a plan review of a construction project for a one to two  
2209 family dwelling or townhome by no later than 14 business days after the day on which the plan  
2210 is submitted to the county.

2211 (b) A county shall complete a plan review of a construction project for a residential  
2212 structure built under the International Building Code, not including a lodging establishment, by  
2213 no later than 21 business days after the day on which the plan is submitted to the county.

2214 (c) (i) Subject to Subsection (3)(c)(ii), if a county does not complete a plan review  
2215 before the time period described in Subsection (3)(a) or (b) expires, an applicant may request  
2216 that the county complete the plan review.

2217 (ii) If an applicant makes a request under Subsection (3)(c)(i), the county shall perform  
2218 the plan review no later than:

2219 (A) for a plan review described in Subsection (3)(a), 14 days from the day on which the  
2220 applicant makes the request; or

2221 (B) for a plan review described in Subsection (3)(b), 21 days from the day on which the  
2222 applicant makes the request.

2223 (d) An applicant may:

2224 (i) waive the plan review time requirements described in this Subsection (3); or

2225 (ii) with the county's consent, establish an alternative plan review time requirement.

2226 (4) (a) A county may not enforce a requirement to have a plan review if:

2227 (i) the county does not complete the plan review within the time period described in  
2228 Subsection (3)(a) or (b); and

2229 (ii) a licensed architect or structural engineer, or both when required by law, stamps the  
2230 plan.

2231 (b) A county may attach to a reviewed plan a list that includes:

2232 (i) items with which the county is concerned and may enforce during construction; and

2233 (ii) building code violations found in the plan.

2234 (c) A county may not require an applicant to redraft a plan if the county requests minor  
2235 changes to the plan that the list described in Subsection (4)(b) identifies.

2236 (5) An applicant shall ensure that each construction project plan submitted for a plan  
2237 review under this section has a statement indicating that actual construction will comply with  
2238 applicable local ordinances and building codes.

2239 Section 30. **Effective date.**

2240 (1) Notwithstanding Subsection (2), if approved by two-thirds of all the members  
2241 elected to each house, the actions affecting the following sections take effect upon approval by  
2242 the governor, or the day following the constitutional time limit of Utah Constitution, Article  
2243 VII, Section 8, without the governor's signature, or in the case of a veto, the date of veto  
2244 override:

2245 (a) Section [15A-3-203](#); and

2246 (b) Section [15A-3-701](#).

2247 (2) This bill takes effect on July 1, 2019.