

CONSTRUCTION CODE AMENDMENTS

2019 GENERAL SESSION

STATE OF UTAH

LONG TITLE

General Description:

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

Highlighted Provisions:

This bill:

- ▶ adopts, 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 2018 International Energy Conservation Code; and
 - the 2018 International Existing Building Code.

Money Appropriated in this Bill:

None

Other Special Clauses:

This bill provides a special effective date.

Utah Code Sections Affected:

AMENDS:

- 15A-1-203**, as enacted by Laws of Utah 2011, Chapter 14
- 15A-2-103**, as last amended by Laws of Utah 2018, Chapter 186
- 15A-3-102**, as last amended by Laws of Utah 2016, Chapter 249
- 15A-3-103**, as last amended by Laws of Utah 2016, Chapter 249
- 15A-3-104**, as last amended by Laws of Utah 2018, Chapter 361
- 15A-3-105**, as last amended by Laws of Utah 2018, Chapter 158
- 15A-3-107**, as last amended by Laws of Utah 2016, Chapter 249
- 15A-3-110**, as last amended by Laws of Utah 2016, Chapter 249
- 15A-3-112**, as last amended by Laws of Utah 2017, Chapter 257

33 **15A-3-113**, as last amended by Laws of Utah 2016, Chapter 249
 34 **15A-3-202**, as last amended by Laws of Utah 2018, Chapter 361
 35 **15A-3-203**, as last amended by Laws of Utah 2016, Chapter 249
 36 **15A-3-205**, as last amended by Laws of Utah 2018, Chapter 186
 37 **15A-3-302**, as last amended by Laws of Utah 2018, Chapter 186
 38 **15A-3-303**, as last amended by Laws of Utah 2016, Chapter 249
 39 **15A-3-304**, as last amended by Laws of Utah 2018, Chapter 186
 40 **15A-3-305**, as last amended by Laws of Utah 2016, Chapter 249
 41 **15A-3-306**, as last amended by Laws of Utah 2016, Chapter 249
 42 **15A-3-307**, as last amended by Laws of Utah 2013, Chapter 297
 43 **15A-3-310**, as last amended by Laws of Utah 2016, Chapter 249
 44 **15A-3-314**, as last amended by Laws of Utah 2016, Chapter 249
 45 **15A-3-401**, as last amended by Laws of Utah 2017, Chapter 14
 46 **15A-3-402**, as enacted by Laws of Utah 2017, Chapter 14
 47 **15A-3-501**, as last amended by Laws of Utah 2016, Chapter 249
 48 **15A-3-801**, as last amended by Laws of Utah 2016, Chapter 249
 49 **15A-4-107**, as last amended by Laws of Utah 2017, Chapter 341

50

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

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

53 **15A-1-203. Uniform Building Code Commission -- Unified Code Analysis**

54 **Council.**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

93 (a) Section 63A-3-106;

94 (b) Section 63A-3-107; and

95 (c) rules made by the Division of Finance pursuant to Sections 63A-3-106 and
96 63A-3-107.

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

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

101 (10) The commission shall:

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

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

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

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

110 (e) assist the division in overseeing code-related training in accordance with Section
111 15A-1-209.

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

114 (a) the facts in question;

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

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

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

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

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

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

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

126 **15A-2-103. Specific editions adopted of construction code of a nationally**
127 **recognized code authority.**

128 (1) Subject to the other provisions of this part, the following construction codes are
129 incorporated by reference, and together with the amendments specified in Chapter 3, [~~Part 3,~~
130 Statewide Amendments [~~to International Plumbing~~] Incorporated as Part of State Construction
131 Code, and Chapter 4, Local Amendments Incorporated as Part of State Construction Code, are
132 the construction standards to be applied to building construction, alteration, remodeling, and
133 repair, and in the regulation of building construction, alteration, remodeling, and repair in the
134 state:

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

137 (b) the 2015 edition of the International Residential Code, issued by the International
138 Code Council;

139 (c) the [~~2015~~] 2018 edition of the International Plumbing Code, issued by the
140 International Code Council;

141 (d) the [~~2015~~] 2018 edition of the International Mechanical Code, issued by the
142 International Code Council;

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

145 (f) the 2017 edition of the National Electrical Code, issued by the National Fire
146 Protection Association;

147 (g) the [~~2015~~] 2018 edition of the International Energy Conservation Code, issued by
148 the International Code Council;

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

151 (i) subject to Subsection 15A-2-104(2), the HUD Code;

152 (j) subject to Subsection 15A-2-104(1), Appendix E of the 2015 edition of the
153 International Residential Code, issued by the International Code Council; and

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

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

157 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
 158 issued by the International Code Council, with the alternatives or amendments approved by the
 159 Utah Division of Forestry, as a construction code that may be adopted by a local compliance
 160 agency by local ordinance or other similar action as a local amendment to the codes listed in
 161 this section.

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

163 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

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

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

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

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

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

181 [~~(5)~~] (6) In IBC, Section 202, the definition for Foster Care Facilities is modified by
 182 [~~changing~~] deleting the word "Foster" [to] and replacing it with the word "Child."

183 [~~(6)~~] (7) In IBC, Section 202, the definition for "[F]Record Drawings" is modified by
 184 deleting the words "a fire alarm system" and replacing them with "any fire protection
 185 system."[:]

186 [~~(7)~~] (8) In IBC, Section 202, the following definition is added for Residential
 187 Treatment/Support Assisted Living Facility: "RESIDENTIAL TREATMENT/SUPPORT

188 ASSISTED LIVING FACILITY. [~~See Section 308.1.2~~] A residential facility that provides a
 189 group living environment for four or more residents licensed by the Department of Human
 190 Services, and provides a protected living arrangement for ambulatory, non-restrained persons
 191 who are capable of achieving mobility sufficient to exit the facility without the physical
 192 assistance of another person."

193 [~~(8)~~] (9) In IBC, Section 202, the following definition is added for Type I Assisted
 194 Living Facility: "TYPE I ASSISTED LIVING FACILITY. [~~See Section 308.1.2~~] A residential
 195 facility licensed by the Department of Health that provides a protected living arrangement,
 196 assistance with activities of daily living and social care to two or more ambulatory,
 197 non-restrained persons who are capable of mobility sufficient to exit the facility without the
 198 assistance of another person. Subcategories are:

199 Limited Capacity: two to five residents;

200 Small: six to sixteen residents; and

201 Large: over sixteen residents."

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

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

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

209 Limited Capacity: two to five residents;

210 Small: six to sixteen residents; and

211 Large: over sixteen residents."

212 [~~(10)~~] (11) In IBC, Section 305.2, [~~the words "child care centers," are inserted after the~~
 213 ~~word "supervision," and the following sentence is added at the end of the paragraph: "See~~
 214 ~~Section 425 for special requirements for Day Care."~~] the following changes are made:

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

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

218 (c) add the following sentence at the end of the paragraph: "See Section 429, Day Care,

219 for special requirements for day care."

220 ~~[(11)]~~ (12) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced
221 with the word "four" in ~~[both]~~ all places.

222 ~~[(12)]~~ (13) A new IBC Section 305.2.4 is added as follows: "305.2.4 Child ~~[Day-Care~~
223 ~~-- Residential Certificate or a Family License]~~ day care -- residential child care certificate or a
224 license. Areas used for child day care purposes with a [Residential Certificate] residential child
225 care certificate, as described in Utah Administrative Code, R430-50, Residential Certificate
226 Child Care, or a [Family License] residential child care license, as [defined] described in Utah
227 Administrative Code, R430-90, Licensed Family Child Care, may be located in a Group R-2 or
228 R-3 occupancy as provided in [Section 310.5 or shall] Sections 310.3 and 310.4 comply with
229 the International Residential Code in accordance with Section R101.2."

230 ~~[(13)]~~ (14) A new IBC Section 305.2.5 is added as follows: "305.2.5 ~~[Child-Care~~
231 ~~Centers. Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code,~~
232 ~~R430-60, Child Care Center as defined in Utah Administrative Code, R430-100, or Out of~~
233 ~~School Time Programs, as defined in Utah Administrative Code, R430-70, may be classified as~~
234 accessory occupancies." Child care centers. Each of the following areas may be classified as
235 accessory occupancies, if the area complies with Section 508.2:

236 1. Hourly child care centers, as described in Utah Administrative Code, R381-60,
237 Hourly Child Care Centers;

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

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

242 ~~[(14)]~~ (15) In IBC, Table 307.1(1), footnote "d" is added to the row for ~~[Consumer~~
243 ~~fireworks]~~ Explosives, Division 1.4G in the column titled STORAGE - Solid Pounds (cubic
244 feet).

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

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

250 ~~[TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah~~
251 ~~Department of Health that provides a protected living arrangement for ambulatory;~~
252 ~~non-restrained persons who are capable of achieving mobility sufficient to exit the facility~~
253 ~~without the assistance of another person.]~~

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

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

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

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

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

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

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

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

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

279 ~~[(18)] (17) In IBC, Section [308.3.4] 308.2.4, all of the words after the first~~
280 ~~International Residential Code are deleted.~~

- 281 ~~[(19) In IBC, Section 308.4, the following changes are made:]~~
- 282 ~~[(a) The words "five persons" are deleted and replaced with the words "three persons."]~~
- 283 ~~[(b) The words "foster care facilities" are deleted and replaced with "child care~~
- 284 ~~facilities."]~~
- 285 ~~[(c) The words "(both intermediate care facilities and skilled nursing facilities)" are~~
- 286 ~~added after "nursing homes."]~~
- 287 ~~[(20) In IBC, Section 308.4.2, the word "five" is deleted and replaced with the word~~
- 288 ~~"three" in both places.]~~
- 289 (18) A new IBC, Section 308.2.5 is added as follows:
- 290 "308.2.5 Group I-1 assisted living facility occupancy groups. The following occupancy
- 291 groups shall apply to assisted living facilities:
- 292 Type I assisted living facilities with seventeen or more residents are Large Facilities
- 293 classified as an Institutional Group I-1, Condition 1 occupancy.
- 294 Type II assisted living facilities with six to sixteen residents are Small Facilities
- 295 classified as an Institutional Group I-1, Condition 2 occupancy. See Section 202 for
- 296 definitions."
- 297 (19) In IBC, Section 308.3 Institutional Group I-2, the following changes are made:
- 298 (a) The words "more than five" are deleted and replaced with "four or more";
- 299 (b) The group "Assisted living facilities, Type-II Large" is added to the list of groups;
- 300 (c) The words "Foster care facilities" are deleted and replaced with the words "Child
- 301 care facilities"; and
- 302 (d) The words "(both intermediate care facilities and skilled nursing facilities)" are
- 303 added after "Nursing homes."
- 304 (20) In IBC, Section 308.3.2, the number "five" is deleted and replaced with the
- 305 number "four" in each location."
- 306 (21) A new IBC, Section 308.3.3 is added as follows:
- 307 "308.3.3 Group I-2 assisted living facilities. Type II assisted living facilities with
- 308 seventeen or more residents are Large Facilities classified as an Institutional Group I-2,
- 309 Condition 1 occupancy. See Section 202 for definitions."
- 310 ~~[(21)]~~ (22) In IBC, Section [308.6] 308.5, the [word "five" is] words "more than five"
- 311 are deleted and replaced with the [word "four."] words "five or more".

312 ~~[(22)]~~ (23) In IBC, Section ~~[308.6.1]~~ 308.5.1, the following changes are made:

313 (a) ~~[The word "five" is]~~ The words "more than five" are deleted and replaced with the
314 ~~[word "four."]~~ words "five or more."

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

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

319 ~~[(23)]~~ (24) In IBC, Sections ~~[308.6.3]~~ 308.5.3 and ~~[308.6.4]~~ 308.5.4, the ~~[word "five"~~
320 ~~is]~~ words "five or fewer" are deleted and replaced with the [word "four"] words "four or fewer"
321 in both places and the following sentence is added at the end: "See Section ~~[427]~~ 429 for
322 special requirements for Day Care."

323 ~~[(24)]~~ (25) In IBC, Section ~~[310.5.]~~ 310.4, the following changes are made:

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

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

328 ~~[(25)]~~ (26) In IBC, Section ~~[310.5.1.]~~ 310.4.1, the following changes are made:

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

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

332 (c) ~~[the]~~ The following sentence is added at the end of the last sentence: "See Section
333 ~~[427]~~ 429 for special requirements for Child Day Care."

334 ~~[(26)]~~ (27) A new IBC Section ~~[310.5.3]~~ 310.4.3 is added as follows: "~~[310.5.3]~~
335 310.4.3 Child Care. Areas used for child care purposes may be located in a residential
336 dwelling unit under all of the following conditions and Section ~~[427]~~ 429:

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

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

341 categories:

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

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

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

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

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

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

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

359 Section 4. Section **15A-3-103** is amended to read:

360 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

361 (1) IBC Section 403.5.5 is deleted.

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

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

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

368 ~~[(2) In]~~ (5) A new IBC, Section [422.2, a new paragraph] 422.2.1 is added as follows:
369 "[422.2] 422.2.1 Separations: Ambulatory care facilities licensed by the [Utah] Department of
370 Health shall be separated from adjacent tenants with a fire partition having a minimum one
371 hour fire-resistance rating. Any level below the level of exit discharge shall be separated from
372 the level of exit discharge by a horizontal assembly having a minimum one hour fire-resistance
373 rating.

374 Exception: A fire barrier is not required to separate the level of exit discharge when:
375 1. Such levels are under the control of the Ambulatory Care Facility.
376 2. Any hazardous spaces are separated by horizontal assembly having a minimum one hour
377 fire-resistance rating."

378 ~~[(3)]~~ (6) A new IBC Section ~~[427]~~ 429, Day Care, is added as follows:
379 "~~[427.1]~~ 429.1 Detailed Requirements. In addition to the occupancy and construction
380 requirements in this code, the additional provisions of this section shall apply to all Day Care in
381 accordance with Utah Administrative Code R710-8 Day Care Rules.

382 ~~[427.2]~~ 429.2 Definitions.

383 ~~[427.2.1]~~ 429.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized
384 deputies, or the local fire enforcement authority code official.

385 ~~[427.2.2]~~ 429.2.2 Day Care Facility: Any building or structure occupied by clients of any age
386 who receive custodial care for less than 24 hours by individuals other than parents, guardians,
387 relatives by blood, marriage or adoption.

388 ~~[427.2.3]~~ 429.2.3 Day Care Center: Providing care for five or more clients in a place other than
389 the home of the person cared for. This would also include Child Care Centers, Out of School
390 Time or Hourly Child Care Centers licensed by the Department of Health.

391 ~~[427.2.4]~~ 429.2.4 Family Day Care: Providing care for clients listed in the following two
392 groups:

393 ~~[427.2.4.1]~~ 429.2.4.1 Type 1: Services provided for five to eight clients in a home. This would
394 also include a home that is certified by the Department of Health as Residential Certificate
395 Child Care or licensed as Family Child Care.

396 ~~[427.2.4.2]~~ 429.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with
397 sufficient staffing. This would also include a home that is licensed by the Department of
398 Health as Family Child Care.

399 ~~[427.2.5]~~ 429.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted
400 under the authority of the Utah Fire Prevention Board.

401 ~~[427.3]~~ 429.3 Family Day Care.

402 ~~[427.3.1]~~ 429.3.1 Family Day Care units shall have on each floor occupied by clients, two
403 separate means of egress, arranged so that if one is blocked the other will be available.

404 ~~[427.3.2]~~ 429.3.2 Family Day Care units that are located in the basement or on the second story

405 shall be provided with two means of egress, one of which shall discharge directly to the
406 outside.

407 [~~427.3.2.1~~] 429.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with
408 five to eight clients in a home, located on the ground level or in a basement, may use an
409 emergency escape or rescue window as allowed in IFC, Chapter 10, Section 1030.

410 [~~427.3.3~~] 429.3.3 Family Day Care units shall not be located above the second story.

411 [~~427.3.4~~] 429.3.4 In Family Day Care units, clients under the age of two shall not be located
412 above or below the first story.

413 [~~427.3.4.1~~] 429.3.4.1 Clients under the age of two may be housed above or below the first story
414 where there is at least one exit that leads directly to the outside and complies with IFC, Section
415 1011 or Section 1012 or Section 1027.

416 [~~427.3.5~~] 429.3.5 Family Day Care units located in split entry/split level type homes in which
417 stairs to the lower level and upper level are equal or nearly equal, may have clients housed on
418 both levels when approved by the AHJ.

419 [~~427.3.6~~] 429.3.6 Family Day Care units shall have a portable fire extinguisher on each level
420 occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be
421 serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

422 [~~427.3.7~~] 429.3.7 Family Day Care units shall have single station smoke detectors in good
423 operating condition on each level occupied by clients. Battery operated smoke detectors shall
424 be permitted if the facility demonstrates testing, maintenance, and battery replacement to insure
425 continued operation of the smoke detectors.

426 [~~427.3.8~~] 429.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,
427 shall have at least one window or door approved for emergency escape.

428 [~~427.3.9~~] 429.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall
429 include the complete evacuation from the building of all clients and staff. At least annually, in
430 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape
431 or rescue window, if one is used as a substitute for one of the required means of egress.

432 [~~427.4~~] 429.4 Day Care Centers.

433 [~~427.4.1~~] 429.4.1 Day Care Centers shall comply with either I-4 requirements or E
434 requirements of the IBC, whichever is applicable for the type of Day Care Center.

435 [~~427.4.2~~] 429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter

436 4, Section 405.

437 [~~427.4.3~~] 429.4.3 Location at grade. Group E child day care centers shall be located at the
438 level of exit discharge.

439 [~~427.4.3.1~~] 429.4.3.1 Child day care spaces for children over the age of 24 months may be
440 located on the second floor of buildings equipped with automatic fire protection throughout
441 and an automatic fire alarm system.

442 [~~427.4.4~~] 429.4.4 Egress. All Group E child day care spaces with an occupant load of more
443 than 10 shall have a second means of egress. If the second means of egress is not an exit door
444 leading directly to the exterior, the room shall have an emergency escape and rescue window
445 complying with Section 1030.

446 [~~427.4.5~~] 429.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative
447 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of
448 School Time.

449 [~~427.5~~] 429.5 Requirements for all Day Care.

450 [~~427.5.1~~] 429.5.1 Heating equipment in spaces occupied by children shall be provided with
451 partitions, screens, or other means to protect children from hot surfaces and open flames.

452 [~~427.5.2~~] 429.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All
453 staff shall be trained on the fire escape plan and procedure."

454 [~~(4)~~] (7) In IBC, Section 504.4, a new section is added as follows: "504.4.1

455 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities shall be
456 allowed on each level of a two-story building of Type V-A construction when all of the
457 following apply:

- 458 1. All secured units are located at the level of exit discharge in compliance with Section
459 1010.1.9.3 as amended;
- 460 2. The total combined area of both stories shall not exceed the total allowable area for a
461 one-story building; and
- 462 3. All other provisions that apply in Section 407 have been provided."

463 (8) In IBC, Section 504.4, a new section is added as follows: "504.4.2 Group I-2
464 Assisted living facilities. Notwithstanding the allowable number of stories permitted by Table
465 504.4 Group I-2 Assisted Living Facilities of type VA, construction shall be allowed on each
466 level of a two-story building when all of the following apply:

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

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

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

475 Section 5. Section **15A-3-104** is amended to read:

476 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

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

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

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

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

487 [~~901.8.1~~] 902.1.5 A minimum clear and unobstructed distance of 12-inches shall be provided
488 from the installed equipment to the elements of permanent construction.

489 [~~901.8.2~~] 902.1.6 A minimum clear and unobstructed distance of 12-inches shall be provided
490 between all other installed equipment and appliances.

491 [~~901.8.3~~] 902.1.7 A clear and unobstructed width of 36-inches shall be provided in front of all
492 installed equipment and appliances, to allow for inspection, service, repair or replacement
493 without removing such elements of permanent construction or disabling the function of a
494 required fire-resistance-rated assembly.

495 [~~901.8.4~~] 902.1.8 Automatic sprinkler system riser rooms shall be provided with a clear and
496 unobstructed passageway to the riser room of not less than 36-inches, and openings into the
497 room shall be clear and unobstructed, with doors swinging in the outward direction from the

498 room and the opening providing a clear width of not less than 34-inches and a clear height of
499 the door opening shall not be less than 80-inches.

500 ~~[901.8.5]~~ 902.1.9 Fire pump rooms shall be provided with a clear and unobstructed
501 passageway to the fire pump room of not less than 72-inches, and openings into the room shall
502 be clear, unobstructed and large enough to allow for the removal of the largest piece of
503 equipment, with doors swinging in the outward direction from the room and the opening
504 providing a clear width of not less than 68-inches and a clear height of the door opening shall
505 not be less than 80-inches."

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

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

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

514 (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
515 deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system
516 installed in accordance with Section 903.3 shall be provided throughout all buildings with a
517 Group R fire area.

518 Exceptions:

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

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

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

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

529 "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing
530 more than 16 residents, provided the building is equipped throughout with an approved fire
531 alarm system that is interconnected and receives its primary power from the building wiring
532 and a commercial power system."

533 [~~(9)~~] (8) IBC, Section (F)903.2.8.4, is deleted.

534 [~~(10)~~] (9) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the
535 following: "2. A Group S-1 fire area is located more than three stories above the lowest level
536 of fire department vehicle access."

537 [~~(11)~~] (10) IBC, Section (F)904.12, is deleted and replaced with the following:

538 "(F)904.12 Commercial cooking systems. The automatic fire-extinguishing system for
539 commercial cooking systems shall be of a type recognized for protection of commercial
540 cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems
541 shall be tested in accordance with UL 300 and listed and labeled for the intended application.
542 The system shall be installed in accordance with this code, its listing and the manufacturer's
543 installation instructions.

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

547 [~~(12)~~] (11) IBC, Sections (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1,
548 are deleted.

549 [~~(13)~~] (12) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as
550 follows:

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

557 [~~(14)~~] (13) In IBC, Section (F)905.8, the exception is deleted and replaced with the
558 following:

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

560 ~~[(15)]~~ (14) In IBC, Section (F)907.2.3 Group E~~[, the first sentence]~~ is deleted and
561 rewritten as follows: "A manual fire alarm system that ~~[activates]~~ initiates the occupant
562 notification signal using an emergency voice/alarm communication system ~~[in accordance~~
563 ~~with]~~ that meets the requirements of Section (F)~~907.5 shall be~~ 907.5.2.2, or a manual fire
564 alarm system that initiates an approved audible and visual occupant notification signal that
565 meets the requirements of Sections (F)907.5.2.1, (F)907.5.2.1.1, (F)907.5.2.2, and
566 (F)907.5.2.3, and is installed~~;~~ in accordance with Section (F)907.6 ~~[and administrative rules~~
567 ~~made by the State Fire Prevention Board in Group E occupancies.]~~ shall be installed in Group
568 E occupancies. Where automatic sprinkler systems or detectors are installed, the systems or
569 detectors shall be connected to the building fire alarm system."

570 ~~[(16)]~~ (15) IBC, Sections (F)915 through (F)915.6, are deleted and replaced with the
571 following:

572 (F)915 Where required.

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

581 (F)915.1 Interconnection.

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

588 (F)915.2 Power source.

589 In new construction, required carbon monoxide alarms shall receive their primary power from
590 the building wiring where such wiring is served from a commercial source and shall be

591 equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not
592 equipped with a battery backup shall be connected to an emergency electrical system. Carbon
593 monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and
594 without a disconnecting switch other than as required for overcurrent protection.

595 Exceptions.

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

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

602 (F)915.3 Group E.

603 A carbon monoxide detection system shall be installed in new buildings that contain Group E
604 occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection
605 system shall be installed in existing buildings that contain Group E occupancies in accordance
606 with IFC, Chapter 11, Section 1103.9.

607 (F)915.3.1 Where required.

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

610 (F)915.3.2 Detection equipment.

611 Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and
612 the manufacturer's instructions and be listed as complying with, for single station detectors, UL
613 2034 and, for system detectors, UL 2075.

614 (F)915.3.3 Locations.

615 Each carbon monoxide detection system shall be installed in the locations specified in NFPA
616 720.

617 (F)915.3.4 Combination detectors.

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

621 (F)915.3.5 Power source.

622 Each carbon monoxide detection system shall receive primary power from the building wiring
623 if the wiring is served from a commercial source. If primary power is interrupted, each carbon
624 monoxide detection system shall receive power from a battery. Wiring shall be permanent and
625 without a disconnecting switch other than that required for overcurrent protection.

626 (F)915.3.6 Maintenance.

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

630 Section 6. Section **15A-3-105** is amended to read:

631 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

632 (1) In IBC, Section 1010.1.9, an exception is added as follows: "Exception: Group E
633 occupancies for purposes of a lockdown or a lockdown drill in accordance with Section
634 1010.1.9.5 Exception 5."

635 (2) In IBC, Section 1010.1.9.2, "Exception:" is deleted and replaced with "Exceptions:
636 1."

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

640 (4) In IBC, Section [~~1010.1.9.3~~] 1010.1.9.4, a new number [6] 7 is added as follows:
641 "[6] 7. Group E occupancies for purposes of a lockdown or a lockdown drill in accordance with
642 Section 1010.1.9.5 Exception 5."

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

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

649 5.1 The application of the lock is approved by the code official.

650 5.2 The unlatching of any door or leaf does not require more than two operations.

651 5.3 The lock can be released from the opposite side of the door on which it is installed.

652 5.4 The lock is only applied during lockdown or during a lockdown drill.

653 5.5 The lock complies with all other state and federal regulations, including the
654 Americans with Disabilities Act of 1990, 42 U.S.C. Sec. 12101 et seq."

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

658 (8) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: "
659 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U
660 occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling
661 units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the
662 minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the
663 walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches
664 (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm)
665 shall be provided on stairways with solid risers where the tread depth is less than 10 inches
666 (254 mm)."

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

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

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

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

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

677 [~~(14)~~] (13) In IBC, Section [~~1208.4~~] 1207.4, subparagraph 1 is deleted and replaced
678 with the following: "1. The unit shall have a living room of not less than 165 square feet (15.3
679 m²) of floor area. An additional 100 square feet (9.3 m²) of floor area shall be provided for
680 each occupant of such unit in excess of two."

681 Section 7. Section **15A-3-107** is amended to read:

682 **15A-3-107. Amendments to Chapter 16 of IBC.**

683 (1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2

684 Condition 1," a new footnote c is added as follows: "c. Type II Assisted Living Facilities that
 685 are I-2 Condition 1 occupancy classifications in accordance with Section 308 shall be Risk
 686 Category II in this table."

687 (2) In IBC, Section 1605.2, in the portion of the definition for the value of f_2 , the words
 688 "and 0.2 for other roof configurations" are deleted and replaced with the following: " $f_2 = 0.20 +$
 689 $.025(A-5)$ for other configurations where roof snow load exceeds 30 psf;
 690 $f_2 = 0$ for roof snow loads of 30 psf (1.44kN/m²) or less.

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

692 (3) In IBC, Sections 1605.3.1 and 1605.3.2, exception 2 in each section is deleted and
 693 replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot (1.44
 694 kNm²) or less need not be combined with seismic loads. Where flat roof snow loads exceed 30
 695 pounds per square foot (1.44 kNm²), the snow loads may be reduced in accordance with the
 696 following in load combinations including both snow and seismic loads. [W_s] S as calculated
 697 below, shall be combined with seismic loads.

698 [W_s] $S = (0.20 + 0.025(A-5))P_f$ is greater than or equal to $0.20 P_f$.

699 Where:

700 [W_s] $S =$ Weight of snow to be ~~included~~ used in combination with seismic ~~calculations~~
 701 loads

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

703 $P_f =$ Design roof snow load, psf.

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

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

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

715 along eaves. Section 7.4.5 of Chapter 7 of ASCE 7 referenced in IBC Section 1608.1 [~~of the~~
 716 ~~IBC~~] is deleted and replaced with the following: [~~Section~~] 7.4.5 Ice Dams and Icicles Along
 717 Eaves. Where ground snow loads exceed 75 psf, eaves shall be capable of sustaining a
 718 uniformly distributed load of $2p_f$ on all overhanging portions. No other loads except dead
 719 loads shall be present on the roof when this uniformly distributed load is applied. All building
 720 exits under down-slope eaves shall be protected from sliding snow and ice."

721 ~~[(6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow~~
 722 ~~Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the jurisdictions~~
 723 ~~identified in that table. Otherwise, the ground snow load, P_g , to be used in the determination of~~
 724 ~~design snow loads for buildings and other structures shall be determined by using the following~~
 725 ~~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~~
 726 ~~A_o .]~~

727 [~~WHERE:~~]

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

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

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

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

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

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

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

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

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

745	[TABLE NO. 1608.1.2(a)]				
746	STATE OF UTAH - REGIONAL SNOW LOAD FACTORS				
747	COUNTY	P_g	S	A_g	
748	Beaver	43	63	6.2	
749	Box Elder	43	63	5.2	
750	Cache	50	63	4.5	
751	Carbon	43	63	5.2	
752	Daggett	43	63	6.5	
753	Davis	43	63	4.5	
754	Duchesne	43	63	6.5	
755	Emery	43	63	6.0	
756	Garfield	43	63	6.0	
757	Grand	36	63	6.5	
758	Iron	43	63	5.8	
759	Juab	43	63	5.2	
760	Kane	36	63	5.7	
761	Millard	43	63	5.3	
762	Morgan	57	63	4.5	
763	Piute	43	63	6.2	
764	Rich	57	63	4.1	
765	Salt Lake	43	63	4.5	
766	San Juan	43	63	6.5	
767	Sanpete	43	63	5.2	
768	Sevier	43	63	6.0	
769	Summit	86	63	5.0	
770	Tooele	43	63	4.5	
771	Uintah	43	63	7.0	
772	Utah	43	63	4.5	

773	-	Wasatch	86	63	5.0
774	-	Washington	29	63	6.0
775	-	Wayne	36	63	6.5
776	-	Weber	43	63	4.5

777 ~~TABLE NO. 1608.1.2(B)~~

778 ~~REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS^{2,3}~~

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

780	County	City	Elevation	Ground Snow Load (psf)	Roof Snow Load (psf) ⁶
781	Carbon	Price ³¹ [All other county locations ⁵	5550] [=	43] [=	30] [=
782	Davis	Fruit Heights ³	4500 - 4850	57	40
783	Emery	Green River ³	4070	36	25
784	Garfield	Panguitch ³	6600	43	30
785	Rich	Woodruff ³¹ [Laketown ⁴¹ [Garden City ⁵¹ [Randolph ⁴	6315] [6000] [= [6300	57] [57] [= [57	40] [40] [= [40
786	San Juan	Monticello ³	6820	50	35
787	Summit	Coalville ³¹ [Kamas ⁴	5600] [6500	86] [114	60] [80
788	Tooele	Tooele ³	5100	43	30
789	Utah	Orem ³¹ [Pleasant Grove ⁴¹ [Provo ⁵	4650] [5000] [= [6300	43] [43] [= [57	30] [30] [= [40
790	Wasatch	Heber ⁵	=	=	=

791	Washington	Leeds ³⁾ [Santa Clara ³⁾ [St. George ³⁾ [All other county locations ⁵⁾	3460] [2850] [2750] [=	29] [21] [21] [=	20] [15] [15] [=
792	Wayne	Loa ³⁾	7080	43	30
793	¹⁾ The IBC requires a minimum live load – See Section 1607.12.				
794	²⁾ This table is informational only in that actual site elevations may vary. Table is only valid if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local Building Official.				
795	³⁾ Values adopted from Table VII of the Utah Snow Load Study.				
796	⁴⁾ Values based on site-specific study. Contact local Building Official for additional information.				
797	⁵⁾ Contact local Building Official.				
798	⁶⁾ Based on $C_e=1.0$, $C_t=1.0$ and $I_s=1.0$ "]				

799 ~~[(8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The~~
 800 ~~value for the thermal factor, C_t , used in calculation of P_g shall be determined from Table 7.3 in~~
 801 ~~ASCE 7.]~~

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

804 ~~[(9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground~~
 805 ~~Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs~~
 806 ~~in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table~~
 807 ~~1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure~~
 808 ~~1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2~~
 809 ~~and for all sites within the CS areas shall be approved. Ground snow load determination for~~
 810 ~~such sites shall be based on an extreme value statistical analysis of data available in the vicinity~~
 811 ~~of the site using a value with a 2-percent annual probability of being exceeded (50-year mean~~
 812 ~~recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as~~
 813 ~~approved by the building official."]~~

814 (7) A new IBC, Section 1608.1.3 is added as follows: "1608.1.3 Drifts on adjacent

815 structures. Section 7.7.2 of ASCE 7 referenced in IBC, Section 1608.1, is deleted and replaced
 816 with the following: 7.7.2 Adjacent structures. At lower adjacent structures, the requirements of
 817 Section 7.7.1 shall be used to calculate windward and leeward drifts. The resulting drift is
 818 permitted to be truncated."

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

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

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

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

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

826 TABLE 7.2-9

827 GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

<u>City/Town</u>	<u>County</u>	<u>Ground Snow Load (lb/ft²)</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>

844	<u>Monticello</u>	<u>San Juan</u>	<u>67</u>	<u>7064</u>
845	<u>Morgan</u>	<u>Morgan</u>	<u>52</u>	<u>5062</u>
846	<u>Nephi</u>	<u>Juab</u>	<u>39</u>	<u>5131</u>
847	<u>Ogden</u>	<u>Weber</u>	<u>37</u>	<u>4334</u>
848	<u>Panguitch</u>	<u>Garfield</u>	<u>41</u>	<u>6630</u>
849	<u>Parowan</u>	<u>Iron</u>	<u>32</u>	<u>6007</u>
850	<u>Price</u>	<u>Carbon</u>	<u>31</u>	<u>5558</u>
851	<u>Provo</u>	<u>Utah</u>	<u>31</u>	<u>4541</u>
852	<u>Randolph</u>	<u>Rich</u>	<u>50</u>	<u>6286</u>
853	<u>Richfield</u>	<u>Sevier</u>	<u>27</u>	<u>5338</u>
854	<u>St. George</u>	<u>Washington</u>	<u>21</u>	<u>2585</u>
855	<u>Salt Lake City</u>	<u>Salt Lake</u>	<u>28</u>	<u>4239</u>
856	<u>Tooele</u>	<u>Tooele</u>	<u>35</u>	<u>5029</u>
857	<u>Vernal</u>	<u>Uintah</u>	<u>39</u>	<u>5384</u>

858 Note: To convert lb/ft² to kN/m², multiply by 0.0479. To convert feet to meters, multiply by
 859 0.3048.

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

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

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

867 ~~(10)~~ (9) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 Effective
 868 Seismic Weight. In ASCE 12.7.2 and 12.14.8.1 [~~of Chapter 12 of ASCE 7~~] as referenced in
 869 Section 1613.1, Definition of W, Item 4 is deleted and replaced with the following:

870 4. Where ~~the~~ flat roof snow load, P_f , exceeds 30 psf, the snow load included in the effective
 871 seismic ~~design~~ weight shall be calculated, in accordance with the following [formula]
 872 equation: $W_s = (0.20 + 0.025(A-5))P_f$ ~~[is greater than or equal to]~~ $\geq 0.20 P_f$.

873 WHERE:

874 W_s = Weight of snow to be included [~~in seismic calculations~~] as effective seismic weight

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

876 P_f = Design roof snow load, psf.

877 For the purposes of this section, snow load shall be assumed uniform on the roof footprint

878 without including the effects of drift or sliding. The Importance Factor, I, used in calculating P_f

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

880 [~~(11) A new IBC, Section 1613.7, is added as follows: "1613.7 ASCE 7, Section~~

881 ~~13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall have a sleeve or~~

882 ~~adapter through the ceiling tile to allow for free movement of at least 1 inch (25 mm) in all~~

883 ~~horizontal directions.]~~

884 [~~Exceptions:]~~

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

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

887 Section 8. Section **15A-3-110** is amended to read:

888 **15A-3-110. Amendments to Chapters 23 through 25 of IBC.**

889 (1) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration factors.

890 The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2, Frequently Used

891 Load Duration Factors, Cd, of the National Design Specifications, shall not be utilized at

892 elevations above 5,000 feet (1,524 M)."

893 [~~(2) In IBC, Section 2308.3.1, a new exception, 3, is added as follows: "3. Where~~

894 ~~foundation plates or sills are bolted or anchored to the foundation with not less than 1/2 inch~~

895 ~~(12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 inches (178 mm) into~~

896 ~~concrete or masonry and spaced not more than 32 inches (816 mm) apart, there shall be a~~

897 ~~minimum of two bolts or anchor straps per piece located not less than 4 inches (102 mm) from~~

898 ~~each end of each piece. A properly sized nut and washer shall be tightened on each bolt to the~~

899 ~~plate."]~~

900 [~~(3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other~~

901 ~~materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with~~

902 ~~ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7, as amended in Section~~

903 ~~1613.5, for installation in high seismic areas."]~~

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

906 Section 9. Section **15A-3-112** is amended to read:

907 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

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

909 ~~[(a) The title for [P] Table 2902.1 is deleted and replaced with the following: "[P]~~
910 ~~Table 2902.1, Minimum Number of Required Plumbing Facilities a, h".]~~

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

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

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

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

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

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

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

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

933 "[P]2902.7 Toilet Facilities for Workers.

934 Toilet facilities shall be provided for construction workers and such facilities shall be

935 maintained in a sanitary condition. Construction worker toilet facilities of the nonsewer type
 936 shall conform to ANSI Z4.3."

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

939 Section 10. Section **15A-3-113** is amended to read:

940 **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

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

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

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

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

947 Section 11. Section **15A-3-202** is amended to read:

948 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

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

956 (2) In IRC, Section 109:

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

961 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;

962 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced
963 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;
964 and R109.1.7 Final inspection.

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

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

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

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

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

991 (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the
992 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear

993 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without
 994 objectionable odors; non-highly pigmented; and will not interfere with the operation of the
 995 sewer treatment facility."

996 (8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced
 997 with the following: "POTABLE WATER. Water free from impurities present in amounts
 998 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,
 999 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and
 1000 the regulations of the public health authority having jurisdiction."

1001 (9) IRC, Figure R301.2(5), is deleted and replaced with [Table R301.2(5a) and Table
 1002 R301.2(5b)] R301.2(5) as follows:

["TABLE NO. R301.2(5a)"]				
[STATE OF UTAH - REGIONAL SNOW LOAD FACTORS]				
	[COUNTY]	[Po]	[S]	[Ao]
1005	[Beaver]	[43]	[63]	[6.2]
1006	[Box Elder]	[43]	[63]	[5.2]
1007	[Cache]	[50]	[63]	[4.5]
1008	[Carbon]	[43]	[63]	[5.2]
1009	[Daggett]	[43]	[63]	[6.5]
1010	[Davis]	[43]	[63]	[4.5]
1011	[Duchesne]	[43]	[63]	[6.5]
1012	[Emery]	[43]	[63]	[6.0]
1013	[Garfield]	[43]	[63]	[6.0]
1014	[Grand]	[36]	[63]	[6.5]
1015	[Iron]	[43]	[63]	[5.8]
1016	[Juab]	[43]	[63]	[5.2]
1017	[Kane]	[36]	[63]	[5.7]
1018	[Millard]	[43]	[63]	[5.3]
1019	[Morgan]	[57]	[63]	[4.5]
1020	[Piute]	[43]	[63]	[6.2]

1022	[Rich]	[57]	[63]	[4.1]
1023	[Salt Lake]	[43]	[63]	[4.5]
1024	[San Juan]	[43]	[63]	[6.5]
1025	[Sanpete]	[43]	[63]	[5.2]
1026	[Sevier]	[43]	[63]	[6.0]
1027	[Summit]	[86]	[63]	[5.0]
1028	[Tooele]	[43]	[63]	[4.5]
1029	[Uintah]	[43]	[63]	[7.0]
1030	[Utah]	[43]	[63]	[4.5]
1031	[Wasatch]	[86]	[63]	[5.0]
1032	[Washington]	[29]	[63]	[6.0]
1033	[Wayne]	[36]	[63]	[6.5]
1034	[Weber]	[43]	[63]	[4.5]

1035	[TABLE NO. R301.2(5b)]				
1036	[— REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS ^{1,2}]				
1037	[The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.]				
1038	[County]	[City]	[Elevation]	[Ground Snow Load (psf)]	[Roof Snow Load (psf)]
1039	[Carbon]	[Price ³ All other county locations ⁵]	[5550 =]	[43 =]	[30 =]
1040	[Davis]	[Fruit Heights ³]	[4500 - 4850]	[57]	[40]
1041	[Emery]	[Green River ³]	[4070]	[36]	[25]
1042	[Garfield]	[Panguitch ³]	[6600]	[43]	[30]

1043	[Rich]	[Woodruff ³ Laketown ⁴ Garden City ⁵ Randolph ⁴]	[6315 6000 = 6300]	[57 57 = 57]	[40 40 = 40]
1044	[San Juan]	[Monticello ³]	[6820]	[50]	[35]
1045	[Summit]	[Coalville ³ Kamas ⁴]	[5600 6500]	[86 114]	[60 80]
1046	[Footele]	[Footele ³]	[5100]	[43]	[30]
1047	[Utah]	[Orem ³ Pleasant Grove ⁴ Provo ⁵]	[4650 5000 =]	[43 43 =]	[30 30 =]
1048	[Wasatch]	[Heber ⁵]	[=]	[=]	[=]
1049	[Washington]	[Leeds ³ Santa Clara ³ St. George ³ All other county locations ⁵]	[3460 2850 2750 =]	[29 21 21 =]	[20 15 15 =]
1050	[Wayne]	[Loa ³]	[7080]	[43]	[30]
1051	[1The IRC requires a minimum live load -- See R301.6.]				
1052	[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.]				
1053	[3Values adopted from Table VII of the Utah Snow Load Study]				
1054	[4Values based on site-specific study. Contact local Building Official for additional information.]				
1055	[5Contact local Building Official.]				
1056	[6Based on Ce =1.0, Ct =1.0 and Is =1.0"]				
1057	<u>"TABLE R301.2(5)</u>				
1058	<u>GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH</u>				

	<u>City/Town</u>	<u>County</u>	<u>Ground Snow Load (lb/ft2)</u>	<u>Elevation (ft)</u>
1059	<u>Beaver</u>	<u>Beaver</u>	<u>35</u>	<u>5886</u>
1060	<u>Brigham City</u>	<u>Box Elder</u>	<u>42</u>	<u>4423</u>
1061	<u>Castle Dale</u>	<u>Emery</u>	<u>32</u>	<u>5669</u>
1062	<u>Coalville</u>	<u>Summit</u>	<u>57</u>	<u>5581</u>
1063	<u>Duchesne</u>	<u>Duchesne</u>	<u>39</u>	<u>5508</u>
1064	<u>Farmington</u>	<u>Davis</u>	<u>35</u>	<u>4318</u>
1065	<u>Fillmore</u>	<u>Millard</u>	<u>30</u>	<u>5138</u>
1066	<u>Heber City</u>	<u>Wasatch</u>	<u>60</u>	<u>5604</u>
1067	<u>Junction</u>	<u>Piute</u>	<u>27</u>	<u>6030</u>
1068	<u>Kanab</u>	<u>Kane</u>	<u>25</u>	<u>4964</u>
1069	<u>Loa</u>	<u>Wayne</u>	<u>37</u>	<u>7060</u>
1070	<u>Logan</u>	<u>Cache</u>	<u>43</u>	<u>4531</u>
1071	<u>Manila</u>	<u>Daggett</u>	<u>26</u>	<u>6368</u>
1072	<u>Manti</u>	<u>Sanpete</u>	<u>37</u>	<u>5620</u>
1073	<u>Moab</u>	<u>Grand</u>	<u>21</u>	<u>4029</u>
1074	<u>Monticello</u>	<u>San Juan</u>	<u>67</u>	<u>7064</u>
1075	<u>Morgan</u>	<u>Morgan</u>	<u>52</u>	<u>5062</u>
1076	<u>Nephi</u>	<u>Juab</u>	<u>39</u>	<u>5131</u>
1077	<u>Ogden</u>	<u>Weber</u>	<u>37</u>	<u>4334</u>
1078	<u>Panguitch</u>	<u>Garfield</u>	<u>41</u>	<u>6630</u>
1079	<u>Parowan</u>	<u>Iron</u>	<u>32</u>	<u>6007</u>
1080	<u>Price</u>	<u>Carbon</u>	<u>31</u>	<u>5558</u>
1081	<u>Provo</u>	<u>Utah</u>	<u>31</u>	<u>4541</u>
1082	<u>Randolph</u>	<u>Rich</u>	<u>50</u>	<u>6286</u>
1083	<u>Richfield</u>	<u>Sevier</u>	<u>27</u>	<u>5338</u>
1084	<u>St. George</u>	<u>Washington</u>	<u>21</u>	<u>2585</u>
1085	<u>Salt Lake City</u>	<u>Salt Lake</u>	<u>28</u>	<u>4239</u>

1087	<u>Tooele</u>	<u>Tooele</u>	<u>35</u>	<u>5029</u>
1088	<u>Vernal</u>	<u>Uintah</u>	<u>39</u>	<u>5384</u>
1089	<u>Note: To convert lb/ft² to kN/m², multiply by 0.0479. To convert feet to meters, multiply by</u>			
1090	<u>0.3048.</u>			
1091	<u>1. Statutory requirements of the Authority Having Jurisdiction are not included in this state</u>			
1092	<u>ground snow load table.</u>			
1093	<u>2. For locations where there is substantial change in altitude over the city/town, the load</u>			
1094	<u>applies at and below the cited elevation, with a tolerance of 100 ft (30 m).</u>			
1095	<u>3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow</u>			
1096	<u>Load Study", Utah State University Civil and Environmental Engineering Faculty</u>			
1097	<u>Publications, Paper 3589, http://utahsnowload.usu.edu/, for ground snow load values.</u>			

1098 (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah
 1099 Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions
 1100 identified in that table. Otherwise, ~~[the ground snow load, P_g, to be used in the determination~~
 1101 ~~of design snow loads for buildings and other structures shall be determined by using the~~
 1102 ~~following formula: P_g = (P_o² + S²(A-A_o)²)^{0.5} for A greater than A_o, and P_g = P_o for A less~~
 1103 ~~than or equal to A_o.]~~ for other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018),
 1104 "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering
 1105 Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow load values.

1106 [~~WHERE:~~

1107 ~~P_g = Ground snow load at a given elevation (psf);~~

1108 ~~P_o = Base ground snow load (psf) from Table No. R301.2(5a);~~

1109 ~~S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);~~

1110 ~~A = Elevation above sea level at the site (ft./1,000);~~

1111 ~~A_o = Base ground snow elevation from Table R301.2(5a) (ft./1,000).~~

1112 ~~The building official may round the roof snow load to the nearest 5 psf. The ground snow~~
 1113 ~~load, P_g, may be adjusted by the building official when a licensed engineer or architect submits~~
 1114 ~~data substantiating the adjustments.~~

1115 ~~Where the minimum roof live load in accordance with Table R301.6 is greater than the design~~
 1116 ~~roof snow load, such roof live load shall be used for design, however, it shall not be reduced to~~
 1117 ~~a load lower than the design roof snow load. Drifting need not be considered for roof snow~~

1118 loads less than 20 psf."]

1119 (11) In IRC, Section R302.2, the following sentence is inserted after the second

1120 sentence: "Plumbing, mechanical ducting, gas piping, and electrical service conductors,

1121 including feeders, shall not penetrate the common wall at grade, above grade, or below grade."

1122 [(11)] (12) In IRC, Section R302.5.1, the words "self-closing device" are deleted and

1123 replaced with "self-latching hardware["]."

1124 [(12)] (13) IRC, Section R302.13, is deleted.

1125 [(13)] (14) In IRC, Section R303.4, the number "5" is changed to "3" in the first

1126 sentence.

1127 [(14)] (15) IRC, Sections R311.7.4 through R311.7.5.3, are deleted and replaced with

1128 the following: "R311.7.4 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser

1129 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading

1130 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not

1131 exceed the smallest by more than 3/8 inch (9.5 mm).

1132 R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread

1133 depth shall be measured horizontally between the vertical planes of the foremost projection of

1134 adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within

1135 any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder

1136 treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point

1137 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a

1138 minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the

1139 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by

1140 more than 3/8 inch (9.5 mm).

1141 R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater

1142 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4

1143 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection

1144 shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two

1145 stories, including the nosing at the level of floors and landings. Beveling of nosing shall not

1146 exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading

1147 edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open

1148 risers are permitted, provided that the opening between treads does not permit the passage of a

1149 4-inch diameter (102 mm) sphere.

1150 Exceptions.

1151 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

1152 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches
1153 (762 mm) or less."

1154 [~~(15)~~] (16) IRC, Section R312.2, is deleted.

1155 [~~(16)~~] (17) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the
1156 following: "R313.1 Design and installation. When installed, automatic residential fire
1157 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and
1158 installed in accordance with Section P2904 or NFPA 13D."

1159 [~~(17)~~] (18) In IRC, Section 315.3, the following words are added to the first sentence
1160 after the word "installed": "on each level of the dwelling unit and["]."

1161 [~~(18)~~] (19) In IRC, Section R315.5, a new exception, 3, is added as follows:

1162 "3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the
1163 alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing
1164 the structure, unless there is an attic, crawl space or basement available which could provide
1165 access for hard wiring, without the removal of interior finishes."

1166 [~~(19)~~] (20) A new IRC, Section R315.7, is added as follows: " R315.7 Interconnection.
1167 Where more than one carbon monoxide alarm is required to be installed within an individual
1168 dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in
1169 such a manner that the actuation of one alarm will activate all of the alarms in the individual
1170 unit. Physical interconnection of smoke alarms shall not be required where listed wireless
1171 alarms are installed and all alarms sound upon activation of one alarm.

1172 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required
1173 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing
1174 the structure, unless there is an attic, crawl space or basement available which could provide
1175 access for interconnection without the removal of interior finishes."

1176 [~~(20)~~] (21) In IRC, Section R403.1.6, a new Exception 3 is added as follows: " 3.

1177 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be
1178 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)
1179 from each end of each plate section at interior bearing walls, interior braced wall lines, and at

1180 all exterior walls."

1181 [~~(21)~~] (22) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2
1182 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816
1183 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located
1184 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,
1185 interior braced wall lines, and at all exterior walls."

1186 [~~(22)~~] (23) In IRC, Section R404.1, a new exception is added as follows: "Exception:
1187 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and
1188 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and
1189 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1190 [~~(23)~~] (24) In IRC, Section R405.1, a new exception is added as follows: "Exception:
1191 When a geotechnical report has been provided for the property, a drainage system is not
1192 required unless the drainage system is required as a condition of the geotechnical report. The
1193 geological report shall make a recommendation regarding a drainage system."

1194 Section 12. Section **15A-3-203** is amended to read:

1195 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

1196 (1) In IRC, Section N1101.5 (R103.2), all words after the words "herein governed." are
1197 deleted and replaced with the following: "Construction documents include all documentation
1198 required to be submitted in order to issue a building permit."

1199 (2) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is deleted.

1200 (3) In IRC, Section N1101.13 (R401.2), add Exception as follows:

1201 "Exception: A project complies if the project demonstrates compliance, using the
1202 software RESCheck 2012 Utah Energy Conservation Code, of:

1203 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than
1204 code";

1205 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than
1206 code"; and

1207 (c) after January 1, 2021, "5 percent better than code."[-]

1208 (4) In IRC, Table N1102.2 (R402.1.2), in the column titled MASS WALL R-VALUE,
1209 a new footnote j is added as follows:

1210 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5 inches

1211 or greater shall be permitted in Zones 5 through 8 when overall window glazing has a .31
1212 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil),
1213 and all other component requirements are met."

1214 (5) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is
1215 deleted and replaced with the word "or[and]".

1216 (6) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and replaced
1217 with the following: "Where allowed by the code official, the builder may certify compliance to
1218 components criteria for items which may not be inspected during regularly scheduled
1219 inspections."

1220 (7) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:

1221 (a) In the first sentence:

1222 (i) on or after January 1, 2019, and before January 1, 2021, replace the word "five"
1223 with "3.5"; and

1224 (ii) after January 1, 2021, replace the word "five" with "three."

1225 (b) In the first sentence, the words "in Climate Zones 1 and 2, and three air changes per
1226 hour in Climate Zones 3 through 8" are deleted.

1227 (c) In the third sentence, the word "third" is deleted.

1228 (d) The following sentence is inserted after the third sentence: "The following parties
1229 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed
1230 contractors who have completed training provided by Blower Door Test equipment
1231 manufacturers or other comparable training."

1232 (8) In IRC, Section N1103.3.3 (R403.3.3):

1233 (a) the exception for duct air leakage testing is deleted; and

1234 (b) the exception for duct air leakage is replaced:

1235 (i) on or after January 1, 2017, and before January 1, 2019, with the following:

1236 "Exception: The duct air leakage test is not required for systems with all air handlers and at
1237 least 65% of all ducts (measured by length) located entirely within the building thermal
1238 envelope.";

1239 (ii) on or after January 1, 2019, and before January 1, 2021, with the following:

1240 "Exception: The duct air leakage test is not required for systems with all air handlers and at
1241 least 75% of all ducts (measured by length) located entirely within the building thermal

1242 envelope."; and

1243 (iii) on or after January 1, 2021, with the following: "Exception: The duct air leakage
1244 test is not required for systems with all air handlers and at least 80% of all ducts (measured by
1245 length) located entirely within the building thermal envelope."

1246 (9) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the exception:
1247 "The following parties shall be approved to conduct testing: Parties certified by BPI or
1248 RESNET, or licensed contractors who have completed either training provided by Duct Test
1249 equipment manufacturers or other comparable training."

1250 (10) In IRC, Section N1103.3.4 (R403.3.4):

1251 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,
1252 the number 3 is changed to 6, the number 85 is changed to 114.6; and

1253 (b) in Subsection 2:

1254 (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to
1255 8 and the number 113.3 is changed to 226.5;

1256 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to
1257 7 and the number 113.3 is changed to 198.2; and

1258 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is
1259 changed to 169.9.

1260 (11) In IRC, Section N1103.3.5 (R403.3.5), the words "or plenums" are deleted.

1261 (12) A new IRC, Section N1103.3.6 (R403.3.6), is added as follows: "N1103.3.6

1262 (R403.3.6) Ducts buried within ceiling insulation. Where supply and return air ducts are

1263 partially or completely buried in ceiling insulation, the ducts shall comply with all of the

1264 following:

1265 1. The supply and return ducts have an insulation R-value not less than R-8.

1266 2. At all points along each duct, the sum of the ceiling insulation R-value against and above the

1267 top of the duct, and against and below the bottom of the duct is not less than R-19, excluding

1268 the R-value of the duct insulation.

1269 3. In Climate Zones 1A, 2A, and 3A, the supply ducts are completely buried within ceiling

1270 insulation, insulated to an R-value of not less than R-13, and in compliance with the vapor

1271 retarder requirements of Section 604.11 of the International Mechanical Code or Section

1272 N1601.4.6 of the International Residential Code, as applicable.

1273 Exception: Sections of the supply duct that are less than 3 feet (914 mm) from the supply outlet
1274 are not required to comply with these requirements."

1275 (13) A new IRC, Section N1103.3.6.1 (R403.3.6.1), is added as follows: "N1103.3.6.1
1276 (R403.3.6.1) Effective R-value of deeply buried ducts. Where using a simulated energy
1277 performance analysis the following sections of ducts are considered as having an effective duct
1278 insulation R-value of R-25:

1279 1. installed in accordance with Section N1103.3.6 (R403.3.6);
1280 2. located directly on, or within 5.5 inches (140 mm) of the ceiling;
1281 3. surrounded with blown-in attic insulation with an R-value of R-30 or greater and located at
1282 the top of the duct is not less than 3.5 inches (89 mm) below the top of the insulation.

1283 (14) A new IRC, Section N1103.3.7 (R403.3.7), is added as follows: "N1103.3.7
1284 (R403.3.7) Ducts located in conditioned space. For ducts to be considered as inside a
1285 conditioned space, the ducts shall comply with either of the following:

1286 1. The ducts are located completely within the continuous air barrier and within the building
1287 thermal envelope.

1288 2. The ducts are buried within ceiling insulation in accordance with Section N1103.3.6
1289 (R403.3.3.6) and all of the following conditions exist:

1290 2.1 The air handler is located completely within the continuous air barrier and within the
1291 building envelope.

1292 2.2 The duct leakage, as measured by a rough-in test of the ducts or a post-construction total
1293 system leakage test to outside the building thermal envelope in accordance with Section
1294 N1103.3.4 (R403.3.4) is less than or equal to 1.5 cubic ft. per minute (42.5 L/min) per 100
1295 square feet (9.29m²) of conditioned floor area served by the duct system."

1296 [~~(12)~~] (15) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and
1297 Subsections 6 and 7 are renumbered.

1298 (16) IRC, Section N1103.6.1 (R403.6.1), is deleted and replaced with the following:
1299 "N1103.6.1 (R403.6.1) Whole-house mechanical ventilation system fan efficacy. Fans used to
1300 provide whole-house mechanical ventilation shall meet the efficacy requirements of Table
1301 N1103.6.1 (R403.6.1).

1302 Exception: Where an air handler that is integral to tested and listed HVAC equipment is used
1303 to provide whole-house mechanical ventilation, the air handler shall be powered by an

1304 electronically commutated motor."

1305 (17) IRC, Section N1104.1 (R404.1) is deleted and replaced with the following:

1306 "N1104.1 (R404.1) Lighting equipment (mandatory). Not less than 90 percent of the
 1307 permanently installed lighting fixtures shall contain only high-efficacy lamps."

1308 [~~13~~] (18) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with
 1309 the following:

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

1316 (19) In IRC, Table N1106.4 (R406.4) Maximum energy rating index, a new footnote a.
 1317 is added as follows: "a. Where on-site renewable energy is included for compliance using the
 1318 ERI analysis of Section N1106.4 (R406.4), the building shall meet the mandatory requirements
 1319 of Section N1106.2 (R406.2), and the building thermal envelope shall be greater than or equal
 1320 to the levels of efficiency and SHGC in Table R402.1.2 or Table R402.1.4 of the 2015
 1321 International Energy Conservation Code."

1322 [~~14~~] (20) In IRC, Section M1307.2, the words "In Seismic Design Categories D0, D1,
 1323 and D2, and in townhouses in Seismic Design Category C", are deleted, and in Subparagraph 1,
 1324 the last sentence is deleted.

1325 [~~15~~] (21) IRC, Section M1411.8, is deleted.

1326 Section 13. Section **15A-3-205** is amended to read:

1327 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1328 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water
 1329 supply. Where a potable public water supply is not available, individual sources of potable
 1330 water supply shall be utilized, provided that the source has been developed in accordance with
 1331 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural
 1332 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by
 1333 the local health department having jurisdiction."

1334 (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every
1335 building in which plumbing fixtures are installed and all premises having drainage piping shall
1336 be connected to a public sewer where the sewer is accessible and is within 300 feet of the
1337 property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage
1338 disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as
1339 administered by the Department of Environmental Quality, Division of Water Quality."

1340 (3) In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are deleted.

1341 (4) In IRC, Section P2705, a new Item 6 is added as follows: "6. Lavatories. A lavatory
1342 shall not be set closer than 12 inches from its center to any side wall or partition. A lavatory
1343 shall be provided with a clearance of 24 inches in width and 21 inches in depth in front of the
1344 lavatory to any side wall, partition, or obstruction." Remaining item numbers are renumbered
1345 accordingly.

1346 [~~(3)~~] (5) In IRC, Section P2801.8, all words in the first sentence up to the word "water"
1347 are deleted.

1348 [~~(4)~~] (6) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow
1349 assembly testing. The premise owner or the premise owner's designee shall have backflow
1350 prevention assemblies operation tested in accordance with administrative rules made by the
1351 Drinking Water Board at the time of installation, repair, and relocation and at least on an
1352 annual basis thereafter, or more frequently as required by the authority having jurisdiction.
1353 Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The
1354 assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the
1355 Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the
1356 Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle
1357 Backflow Preventer, and Reduced Pressure Detector Assembly. Third-party certification for
1358 backflow prevention assemblies will consist of any combination of two certifications,
1359 laboratory or field. Acceptable third-party laboratory certifying agencies are ASSE, IAPMO,
1360 and USC-FCCCHR. USC-FCCCHR currently provides the only field testing of backflow
1361 protection assemblies. Also see www.drinkingwater.utah.gov and rules made by the Drinking
1362 Water Board."

1363 [~~(5)~~] (7) In IRC, Section P2902.1, the following subsections are added as follows:

1364 "P2902.1.1 General Installation Criteria.

1365 Assemblies shall not be installed more than five feet above the floor unless a permanent
1366 platform is installed. The assembly owner, where necessary, shall provide devices or structures
1367 to facilitate testing, repair, and maintenance, and to insure the safety of the backflow
1368 technician.

1369 P2902.1.2 Specific Installation Criteria.

1370 P2902.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.

1371 The reduced pressure principle backflow prevention assembly shall be installed as
1372 follows:

- 1373 a. The assembly may not be installed in a pit.
- 1374 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,
1375 including a sanitary sewer, a storm drain, or a vent.
- 1376 c. The assembly shall be installed in a horizontal position only, unless listed or approved for
1377 vertical installation in accordance with Section 303.4.
- 1378 d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor or
1379 ground.
- 1380 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1381 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1382 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.

1383 A double check valve backflow prevention assembly shall be installed as follows:

- 1384 a. The assembly shall be installed in a horizontal position only, unless listed or approved for
1385 vertical installation.
- 1386 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or floor.
- 1387 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1388 obstacle, and shall be readily accessible for testing, repair, and maintenance.
- 1389 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance
1390 between all sides of the vault, including the floor and roof or ceiling, with adequate room for
1391 testing and maintenance.

1392 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker
1393 Assembly.

1394 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker assembly shall
1395 be installed as follows:

- 1396 a. The assembly shall not be installed in an area that could be subject to backpressure or back
1397 drainage conditions.
- 1398 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and
1399 the highest point of use.
- 1400 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall
1401 be readily accessible for testing, repair, and maintenance.
- 1402 d. The assembly shall not be installed below ground, in a vault, or in a pit.
- 1403 e. The assembly shall be installed in a vertical position."

1404 ~~[(6)]~~ (8) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the
1405 following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve, shutoff
1406 valves shall be required on each fixture supply pipe to each plumbing appliance and to each
1407 plumbing fixture other than bathtubs and showers."

1408 ~~[(7)]~~ (9) IRC, Section P2910.5, is deleted and replaced with the following:
1409 "P2910.5 Potable water connections.

1410 When a potable water system is connected to a nonpotable water system, the potable water
1411 system shall be protected against backflow by a reduced pressure backflow prevention
1412 assembly or an air gap installed in accordance with Section 2901."

1413 ~~[(8)]~~ (10) IRC, Section P2910.9.5, is deleted and replaced with the following:
1414 "P2910.9.5 Makeup water.

1415 Where an uninterrupted nonpotable water supply is required for the intended application,
1416 potable or reclaimed water shall be provided as a source of makeup water for the storage tank.
1417 The makeup water supply shall be protected against backflow by means of an air gap not less
1418 than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow
1419 prevention assembly installed in accordance with Section 2902."

1420 ~~[(9)]~~ (11) In IRC, Section P2911.12.4, the following words are deleted: "and backwater
1421 valves[²]."

1422 ~~[(10)]~~ (12) In IRC, Section P2912.15.6, the following words are deleted: "and
1423 backwater valves[²]."

1424 ~~[(11)]~~ (13) In IRC, Section P2913.4.2, the following words are deleted: "and backwater
1425 valves[²]."

1426 ~~[(12)]~~ (14) IRC, Section P3009, is deleted and replaced with the following:

1427 "P3009 Connected to nonpotable water from on-site water reuse systems.
1428 Nonpotable systems utilized for subsurface irrigation for single-family residences shall comply
1429 with the requirements of R317-401, UAC, [~~Gray Water~~] Graywater Systems."

1430 [~~(13)~~] (15) In IRC, Section P3103.6, the following sentence is added at the end of the
1431 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the
1432 wall with an elbow pointing downward."

1433 [~~(14)~~] (16) In IRC, Section P3104.4, the following sentence is added at the end of the
1434 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain
1435 and floor sink installations when installed below grade in accordance with Chapter 30, and
1436 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

1437 Section 14. Section **15A-3-302** is amended to read:

1438 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

1439 [~~(1)~~] ~~A new IPC, Section 101.2.1, is added as follows: "For clarification, the~~
1440 ~~International Private Sewage Disposal Code is not part of the plumbing code even though it is~~
1441 ~~in the same printed volume."]~~

1442 [~~(2)~~] (1) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is
1443 deleted.

1444 [~~(3)~~] (2) In IPC, Section 202, the following definition is added: "Certified Backflow
1445 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention
1446 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection
1447 19-4-104(4)."

1448 [~~(4)~~] (3) In IPC, Section 202, the following definition is added: "Contamination (High
1449 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the
1450 public health through poisoning or through the spread of disease by sewage, industrial fluids or
1451 waste."

1452 [~~(5)~~] (4) In IPC, Section 202, the definition for "Cross Connection" is deleted and
1453 replaced with the following: "Cross Connection. Any physical connection or potential
1454 connection or arrangement between two otherwise separate piping systems, one of which
1455 contains potable water and the other either water of unknown or questionable safety or steam,
1456 gas, or chemical, whereby there exists the possibility for flow from one system to the other,
1457 with the direction of flow depending on the pressure differential between the two systems (see

1458 "Backflow")."

1459 ~~[(6)]~~ (5) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A
1460 manufactured or field fabricated trap with a liquid seal of 4" or larger."

1461 ~~[(7)]~~ (6) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is
1462 deleted and replaced with the following:

1463 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1,
1464 including propylene glycol; and mineral oil."

1465 ~~[(8)]~~ (7) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is
1466 deleted and replaced with the following:

1467 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is
1468 not an essentially nontoxic transfer fluid under this code."

1469 ~~[(9)]~~ (8) In IPC, Section 202, the following definition is added: "High Hazard. See
1470 Contamination."

1471 ~~[(10)]~~ (9) In IPC, Section 202, the following definition is added: "Low Hazard. See
1472 Pollution."

1473 ~~[(11)]~~ (10) In IPC, Section 202, the following definition is added: "Motor Vehicle
1474 Waste Disposal Well. An injection well that discharges to the subsurface by way of a floor
1475 drain, septic system, French drain, dry well, or similar system that receives or has received
1476 fluid from a facility engaged in vehicular repair or maintenance activities, including an auto
1477 body repair shop, automotive repair shop, new and used car dealership, speciality repair shop,
1478 or any other facility that does any vehicular repair work. A motor vehicle waste disposal well is
1479 subject to rulemaking under Section 19-5-104 regarding underground injection."

1480 ~~[(12)]~~ (11) In IPC, Section 202, the following definition is added: "Pollution (Low
1481 Hazard). An impairment of the quality of the potable water to a degree that does not create a
1482 hazard to the public health but that does adversely and unreasonably affect the aesthetic
1483 qualities of such potable water for domestic use."

1484 ~~[(13)]~~ (12) In IPC, Section 202, the definition for "Potable Water" is deleted and
1485 replaced with the following: "Potable Water. Water free from impurities present in amounts
1486 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,
1487 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and
1488 the regulations of the public health authority having jurisdiction."

1489 Section 15. Section **15A-3-303** is amended to read:

1490 **15A-3-303. Amendments to Chapter 3 of IPC.**

1491 (1) In IPC, Section 303.4, the following exception is added:

1492 "Exception: Third-party certification for backflow prevention assemblies will consist of any
1493 combination of two certifications, laboratory or field. Acceptable third party laboratory
1494 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently
1495 provides the only field testing of backflow protection assemblies. Also see
1496 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code,
1497 [~~R309-305-6~~] R309-105-12(4)."

1498 (2) IPC, Section 311.1, is deleted.

1499 (3) In IPC, Section 312.3, the following is added at the end of the paragraph:

1500 "Where water is not available at the construction site or where freezing conditions limit
1501 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be
1502 tested with air. The following procedures shall be followed:

1503 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
1504 explode, causing serious injury or death.

1505 2. Contractor assumes all liability for injury or death to persons or damage to property or for
1506 claims for labor and/or material arising from any alleged failure of the system during testing
1507 with air or compressed gasses.

1508 3. Proper personal protective equipment, including safety eyewear and protective headgear,
1509 should be worn by all individuals in any area where an air or gas test is being conducted.

1510 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1511 5. No drain and vent system shall be pressurized in excess of 6 psi as measured by accurate
1512 gauges graduated to no more than three times the test pressure.

1513 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
1514 minutes.

1515 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
1516 gases should be vented, and test balls and plugs should be removed with caution."

1517 (4) In IPC, Section 312.5, the following is added at the end of the paragraph:

1518 "Where water is not available at the construction site or where freezing conditions limit the use
1519 of water on the construction site, plastic water pipes may be permitted to be tested with air.

1520 The following procedures shall be followed:

- 1521 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
1522 explode, causing serious injury or death.
- 1523 2. Contractor assumes all liability for injury or death to persons or damage to property or for
1524 claims for labor and/or material arising from any alleged failure of the system during testing
1525 with air or compressed gasses.
- 1526 3. Proper personal protective equipment, including safety eyewear and protective headgear,
1527 should be worn by all individuals in any area where an air or gas test is being conducted.
- 1528 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.
- 1529 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80
1530 psi as measured by accurate gauges graduated to no more than three times the test pressure.
- 1531 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
1532 minutes.
- 1533 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
1534 gases should be vented, and test balls and plugs should be removed with caution."

1535 (5) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.
1536 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in
1537 accordance with Utah Administrative Code, R309-305."

1538 Section 16. Section **15A-3-304** is amended to read:

1539 **15A-3-304. Amendments to Chapter 4 of IPC.**

1540 (1) In IPC, Table 403.1, the following changes are made:

1541 [~~(a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,
1542 Minimum Number of Required Plumbing Fixturesa, h";]~~

1543 [~~(b)~~ (a) In row number "3", for [~~"E" occupancy,~~] in the field for "OTHER", a new
1544 footnote [g] h is added.

1545 [~~(c)~~ (b) In row number "5", for [~~"H-4] Adult day care and child day care" occupancy, in
1546 the field for "OTHER", a new footnote [g] h is added.~~

1547 (c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required
1548 number and type of plumbing fixtures for outdoor public swimming pools shall be in
1549 accordance with Utah Administrative Code, R392-302 Design, Construction and Operation of
1550 Public Pools."

1551 (d) A new footnote [f] g is added as follows: "FOOTNOTE: [f] g. When provided, in
 1552 public toilet facilities, there shall be an equal number of diaper changing facilities in male toilet
 1553 rooms and female toilet rooms. Diaper changing facilities shall meet the requirements of
 1554 ASTM F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper
 1555 Changing Tables for Commercial Use."

1556 (e) A new footnote [g] h is added to the table as follows: "FOOTNOTE [g] h:
 1557 Non-residential child care facilities shall comply with the additional sink requirements [~~for~~
 1558 ~~sinks in administrative rule made by the Department of Health] of Utah Administrative Code,
 1559 R381-60-9, Hourly Child Care Centers, R381-70-9, Out of School Time Child Care Programs,
 1560 and R381-100-9, Child Care Centers."~~

1561 (2) A new IPC, Section 406.3, is added as follows: " 406.3 Automatic clothes washer
 1562 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in
 1563 accordance with Section 504.7."

1564 (3) A new IPC, Section [~~412.5~~] 413.5, is added as follows: "~~[412.5]~~ 413.5 Public toilet
 1565 rooms. All public toilet rooms [~~in A & E occupancies and M occupancies with restrooms~~
 1566 ~~having multiple water closets or urinals]~~ shall be equipped with at least one floor drain."

1567 (4) A new IPC, Section 412.6, is added as follows: "Prohibition of motor vehicle waste
 1568 disposal wells. New and existing motor vehicle waste disposal wells are prohibited. A motor
 1569 vehicle waste disposal well associated with a single family residence is not subject to this
 1570 prohibition."

1571 (5) IPC, Section 423.3, is deleted.

1572 Section 17. Section **15A-3-305** is amended to read:

1573 **15A-3-305. Amendments to Chapter 5 of IPC.**

1574 (1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic
 1575 supports. As a minimum requirement, water heaters shall be anchored or strapped to resist
 1576 horizontal displacement caused by earthquake motion. Strapping shall be at points within the
 1577 upper one-third and lower one-third of the appliance's vertical dimensions. "

1578 (2) In IPC, Section 504.6, a new number 15 is added as follows: "15. Be installed in
 1579 accordance with the manufacturer's installation instructions, not to exceed 180 degrees in
 1580 directional change."

1581 [~~(2)~~] (3) In IPC, Section 504.7.2, the following is added at the end of the section:

1582 "When permitted by the code official, the pan drain may be directly connected to a soil stack,
1583 waste stack, or branch drain. The pan drain shall be individually trapped and vented as
1584 required in Section 907.1. The pan drain shall not be directly or indirectly connected to any
1585 vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044,
1586 a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1587 ~~(3)~~ (4) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation.
1588 A water heater pan shall be considered an emergency receptor designated to receive the
1589 discharge of water from the water heater only and shall not receive the discharge from any
1590 other fixtures, devices, or equipment."

1591 Section 18. Section **15A-3-306** is amended to read:

1592 **15A-3-306. Amendments to Chapter 6 of IPC.**

1593 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual
1594 water supply. Where a potable public water supply is not available, individual sources of
1595 potable water supply shall be utilized provided that the source has been developed in
1596 accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as administered by the
1597 Department of Natural Resources, Division of Water Rights. In addition, the quality of the
1598 water shall be approved by the local health department having jurisdiction. The source shall
1599 supply sufficient quantity of water to comply with the requirements of this chapter."

1600 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are
1601 deleted.

1602 (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated
1603 metering faucets for food service establishments. Self closing or manually operated metering
1604 faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the
1605 faucet."

1606 (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water
1607 pressure booster systems. Water pressure booster systems shall be provided as required by
1608 Section 606.5.1 through 606.5.11."

1609 (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited
1610 installation. In no case shall a booster pump be allowed that will lower the pressure in the
1611 public main to less than the minimum water pressure specified in Utah Administrative Code
1612 R309-105-9."

1613 (6) In IPC, Section 608.1, the words "and pollution" are added after the word
1614 "contamination."

1615 (7) In IPC, Section 608.1, the following subsections are added as follows:

1616 "608.1.1 General Installation Criteria.

1617 An assembly shall not be installed more than five feet above the floor unless a permanent
1618 platform is installed. The assembly owner, where necessary, shall provide devices or structures
1619 to facilitate testing, repair, and maintenance and to insure the safety of the backflow technician.

1620 608.1.2 Specific Installation Criteria.

1621 608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.

1622 A reduced pressure principle backflow prevention assembly shall be installed as follows:

1623 a. The assembly shall not be installed in a pit or below grade where the relief port could be
1624 submerged in water or where fumes could be present at the relief port discharge.

1625 b. The relief valve of the assembly shall not be directly connected to a waste disposal line,
1626 including a sanitary sewer, storm drain, or vent.

1627 c. The assembly shall be installed in a horizontal position, unless the assembly is listed or
1628 approved for vertical installation in accordance with Section 303.4.

1629 d. The bottom of each assembly shall be installed a minimum of 12 inches above the ground or
1630 the floor.

1631 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1632 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1633 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

1634 A double check valve backflow prevention assembly shall be installed as follows:

1635 a. The assembly shall be installed in a horizontal position unless the assembly is listed or
1636 approved for vertical installation.

1637 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the floor.

1638 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or
1639 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1640 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of clearance
1641 around all sides of the vault, including the floor and roof or ceiling, with adequate room for
1642 testing and maintenance.

1643 608.1.2.3 Pressure Vacuum [~~Break~~] Breaker Assembly and Spill Resistant Pressure Vacuum

1644 Breaker Assembly.

1645 A pressure vacuum [~~break~~] breaker assembly and spill resistant pressure vacuum breaker
1646 assembly shall be installed as follows:

1647 a. The assembly shall not be installed in an area that could be subject to backpressure or back
1648 drainage conditions.

1649 b. The assembly shall be installed a minimum of 12 inches above all downstream piping and
1650 the highest point of use.

1651 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle, and shall
1652 be readily accessible for testing, repair, and maintenance.

1653 d. The assembly shall not be installed below ground or in a vault or pit.

1654 e. The assembly shall be installed in a vertical position."

1655 (8) In IPC, Section 608.3, the word "and" [~~after~~] before the word "contamination" is
1656 deleted and replaced with a comma and the words "[~~and~~] or pollution" are added after the word
1657 "contamination" in the first sentence.

1658 (9) In IPC, Section [~~608.5~~] 608.6, the words "with the potential to create a condition of
1659 either contamination or pollution or" are added after the word "substances".

1660 (10) In IPC, Section [~~608.6~~] 608.7, the following sentence is added at the end of the
1661 paragraph: "Any connection between potable water piping and sewer-connected waste shall be
1662 protected by an air gap in accordance with Section [~~608.13.1~~] 608.14.1."

1663 (11) IPC, Section [~~608.7~~] 608.8, is deleted and replaced with the following: "[~~608.7~~]
1664 608.8 Stop and Waste Valves installed below grade. Combination stop-and-waste valves shall
1665 be permitted to be installed underground or below grade. Freeze proof yard hydrants that drain
1666 the riser into the ground are considered to be stop-and-waste valves and shall be permitted. A
1667 stop-and-waste valve shall be installed in accordance with a manufacturer's recommended
1668 installation instructions."

1669 [~~(12) In IPC, Section 608.11, the following sentence is added at the end of the~~
1670 ~~paragraph: "The coating and installation shall conform to NSF Standard 61 and application of~~
1671 ~~the coating shall comply with the manufacturer's instructions."~~]

1672 [~~(13)~~] (12) IPC, Section [~~608.13.3~~] 608.14.3, is deleted and replaced with the
1673 following: "[~~608.13.3~~] 608.14.3 Backflow preventer with intermediate atmospheric vent.

1674 Backflow preventers with intermediate atmospheric vents shall conform to ASSE 1012 or CSA

1675 CAN/CSA-B64.3. These devices shall be permitted to be installed on residential boilers
1676 [~~only~~], without chemical treatment, where subject to continuous pressure conditions, and
1677 humidifiers in accordance with Section 608.17.10. The relief opening shall discharge by air
1678 gap and shall be prevented from being submerged."

1679 ~~[(14)] (13) IPC, Section [608.13.4] 608.14.4, is deleted.~~

1680 ~~[(15) IPC, Section 608.13.9, is deleted and replaced with the following: "608.13.9~~
1681 ~~Chemical dispenser backflow devices. Backflow devices for chemical dispensers shall comply~~
1682 ~~with Section 608.16.7."]~~

1683 ~~[(16)] (14) IPC, Section [608.15.3] 608.16.3, is deleted and replaced with the~~
1684 following: "~~[608.15.3] 608.16.3~~ Protection by a backflow preventer with intermediate
1685 atmospheric vent. Connections to residential boilers only, without chemical treatment, and
1686 humidifiers shall be protected by a backflow preventer with an intermediate atmospheric vent."

1687 ~~[(17)] (15) IPC, Section [608.15.4] 608.16.4, is deleted and replaced with the~~
1688 following: "~~[608.15.4] 608.16.4~~ Protection by a vacuum breaker. Openings and outlets shall be
1689 protected by atmospheric-type or pressure-type vacuum breakers. Vacuum breakers shall not
1690 be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors.
1691 Fill valves shall be set in accordance with Section 425.3.1. Atmospheric Vacuum Breakers -
1692 The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152
1693 mm) above the flood level rim of the fixture or device. Pipe-applied vacuum breakers shall be
1694 installed not less than 6 inches (152 mm) above the flood level rim of the fixture, receptor, or
1695 device served. No valves shall be installed downstream of the atmospheric vacuum breaker.
1696 The atmospheric vacuum breaker shall not be installed where it may be subjected to continuous
1697 pressure for more than 12 consecutive hours at any time. Pressure Vacuum Breaker - The
1698 critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm)
1699 above the flood level of the fixture or device."

1700 ~~[(18)] (16) In IPC, Section [608.15.4.2] 608.16.4.2, the following is added after the~~
1701 first sentence: "Add-on-backflow prevention devices shall be non-removable. In climates
1702 where freezing temperatures occur, a listed self-draining frost proof hose bibb with an integral
1703 backflow preventer shall be used."

1704 ~~(17) In IPC, Section 608.17.1.2, the words "or ASSE 1024" are deleted.~~

1705 ~~[(19)] (18) IPC, Section [608.16.2] 608.17.2, is deleted and replaced as follows:~~

1706 "[~~608.16.2~~] 608.17.2 Connections to boilers. The potable supply to a boiler shall be protected
1707 by an air gap or a reduced pressure principle backflow preventer, complying with ASSE 1013,
1708 CSA B64.4 or AWWA C511.

1709 Exception: The potable supply to a residential boiler without chemical treatment may be
1710 equipped with a backflow preventer with an intermediate atmospheric vent complying with
1711 ASSE 1012 or CSA CAN/CSA-B64.3."

1712 [~~(20)~~] (19) In IPC, Section [~~608.16.4.1~~] 608.17.4.1, a new exception is added as
1713 follows: "Exception: All class 1 and 2 systems containing chemical additives consisting of
1714 strictly glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected
1715 against backflow with a double check valve assembly. Such systems shall include written
1716 certification of the chemical additives at the time of original installation and service or
1717 maintenance."

1718 [~~(21)~~] (20) IPC, Section [~~608.16.7~~] 608.17.7, is deleted and replaced with the
1719 following: "[~~608.16.7~~] 608.17.7 Chemical dispensers. Where chemical dispensers connect to
1720 the water distribution system, the water supply system shall be protected against backflow in
1721 accordance with Section [~~608.13.1~~] 608.14.1, Section [~~608.13.2~~] 608.14.2, Section [~~608.13.5~~]
1722 608.14.5, Section [~~608.13.6~~] 608.14.6 or Section [~~608.13.8~~] 608.14.8. Installation shall be in
1723 accordance with Section 608.1.2. Chemical dispensers shall connect to a separate dedicated
1724 water supply line, and not a sink faucet."

1725 [~~(22)~~] (21) IPC, Section [~~608.16.8~~] 608.17.8, is deleted and replaced with the
1726 following: "[~~608.16.8~~] 608.17.8 Portable cleaning equipment. Where the portable cleaning
1727 equipment connects to the water distribution system, the water supply system shall be protected
1728 against backflow in accordance with Section [~~608.13.1~~] 608.14.1 or Section [~~608.13.2~~]
1729 608.14.2."

1730 [~~(23)~~] (22) A new IPC, Section [~~608.16.11~~] 608.17.11, is added as follows:
1731 "[~~608.16.11~~] 608.17.11 Automatic and coin operated car washes. The water supply to an
1732 automatic or coin operated car wash shall be protected in accordance with Section [~~608.13.1~~]
1733 608.14.1 or Section [~~608.13.2~~] 608.14.2."

1734 [~~(24)~~] (23) IPC, Section [~~608.17~~] 608.18, is deleted and replaced with the following:
1735 "[~~608.17~~] 608.18 Protection of individual water supplies. See Section 602.3 for requirements."

1736 Section 19. Section **15A-3-307** is amended to read:

1737 **15A-3-307. Amendments to Chapter 7 of IPC.**

1738 (1) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer
1739 required. Every building in which plumbing fixtures are installed and all premises having
1740 drainage piping shall be connected to a public sewer where the sewer is accessible and is
1741 within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an
1742 approved private sewage disposal system in accordance with Utah Administrative Code, Rule
1743 R317-4, as administered by the Department of Environmental Quality, Division of Water
1744 Quality."

1745 (2) A new IPC Section 701.8 is added as follows: "701.8 Drainage piping in food
1746 service areas. Exposed soil or waste piping shall not be installed above any working, storage, or
1747 eating surfaces in food service establishments."

1748 ~~[(2)]~~ (3) In IPC, Section 712.3.3.1, the following words are added ~~[before]~~ after the
1749 word ~~["or"]~~ "PE": "stainless steel, cast iron, galvanized steel, brass,".

1750 Section 20. Section **15A-3-310** is amended to read:

1751 **15A-3-310. Amendments to Chapter 10 of IPC.**

1752 ~~[IPC, Chapter 10, is not amended.]~~ In IPC, Section 1003.3.8, the word "gravity" is
1753 inserted before the word "grease."

1754 Section 21. Section **15A-3-314** is amended to read:

1755 **15A-3-314. Amendments to Chapter 14 of IPC.**

1756 IPC, Chapter 14, is deleted and replaced with the following:

1757 "1401. Subsurface Landscape Irrigation Systems.

1758 ~~[Gray water]~~ Graywater recycling systems utilized for subsurface irrigation for single-family
1759 residences shall comply with the requirements of UAC R317-401, ~~[Gray Water]~~ Graywater
1760 Systems. ~~[Gray water]~~ Graywater recycling systems utilized for subsurface irrigation for other
1761 occupancies shall comply with UAC R317-3, Design Requirements for Wastewater Collection,
1762 Treatment, and Disposal Systems, and UAC R317-4, Onsite ~~[Waterwaste]~~ Wastewater
1763 Systems."

1764 Section 22. Section **15A-3-401** is amended to read:

1765 **15A-3-401. General provisions.**

1766 (1) The amendments in this part are adopted as amendments to the IMC to be

1767 applicable statewide.

1768 (2) In IMC, Section 1004.2, the first sentence is deleted and replaced with the
1769 following: " In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by
1770 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor
1771 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in
1772 private residences or in apartment houses of less than five family units. Boilers shall be
1773 installed in accordance with their listing and labeling, with minimum clearances as prescribed
1774 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

1775 (3) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".

1776 [~~(4) IMC, Section 1101.10, is deleted.~~]

1777 [~~(5)~~ (4) In IMC, Section 1209.3, the following words are added at the end of the
1778 section: "or other methods approved for the application."

1779 Section 23. Section **15A-3-402** is amended to read:

1780 **15A-3-402. Amendments to Chapters 1 through 5 of the International**

1781 **Mechanical Code.**

1782 (1) In IMC, Table 403.3, note h is deleted and replaced with the following:

1783 "h. 1. A nail salon shall provide each manicure station where a nail technician files or
1784 shapes an acrylic nail, as defined by rule by the Division of Occupational and Professional
1785 Licensing, in accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act,
1786 with:

1787 a. a source capture system equipped with, at minimum, a MERV 8 particulate filter and
1788 an activated carbon filter that is capable of filtering and recirculating air to inside space at a
1789 rate not less than 50 cfm per station; or

1790 b. a source capture system capable of exhausting not less than 50 cfm per station.

1791 c. A nail salon that complies with Note h.l.a or h.l.b is not required to comply with the
1792 labeling, listing, or testing requirements described in International Mechanical Code sections
1793 301.7 or 301.8.

1794 2. For a source capture system described in paragraph 1, the source capture system
1795 inlets for exhausting or recirculating air shall be located in accordance with Section 502.20.

1796 3. Where one or more exhausting source capture systems described in paragraph 1
1797 operate continuously during occupancy, the source capture system exhaust rate shall be

1798 permitted to be applied to the exhaust flow rate required by Table 403.3.1.1 for the nail salon.

1799 4. The requirements of this note apply to:

1800 a. an existing nail salon that remodels the nail salon after July 1, 2017;

1801 b. a new nail salon that begins construction after July 1, 2017; and

1802 c. all nail salons beginning on July 1, 2020."

1803 (2) In IMC, Section 502.20 is deleted and rewritten as follows:

1804 "502.20 Manicure stations. A nail salon that files or shapes an acrylic nail shall provide

1805 each manicure station with a source capture system in accordance with Table 403.3.1.1, note h.

1806 For a manicure table that does not have factory-installed source capture system inlets for

1807 recirculating or exhausting air, a nail salon shall provide the manicure table with inlets for

1808 recirculating or exhausting air located not more than 12 inches (305 mm) horizontally and

1809 vertically from the point of any acrylic chemical application.

1810 Exception: Section 502.20 applies to a manicure station in:

1811 a. an existing nail salon that remodels the nail salon after July 1, 2017;

1812 b. a new nail salon that begins construction after July 1, 2017; and

1813 c. all nail salons beginning on July 1, 2020."

1814 (3) In IMC, Section 602.2, the word "supply" is added at the beginning of the last

1815 sentence and the word "direct" is added before the word "evaporative."

1816 (4) In IMC, Section 603.5.1, the word "supply" is added at the beginning of the last

1817 sentence and the word "direct" is added before the word "evaporative."

1818 Section 24. Section **15A-3-501** is amended to read:

1819 **15A-3-501. General provisions.**

1820 The following are adopted as an amendment to the IFGC to be applicable statewide:

1821 (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "404.9.1 Meter

1822 protection. Fuel gas services shall be in an approved location and/or provided with structures

1823 designed to protect the fuel gas meter and surrounding piping from physical damage, including

1824 falling, moving, or migrating ice and snow. If an added structure is used, it must still provide

1825 access for service and comply with the IBC or the IRC."

1826 (2) IFGC, Section 409.5.3, is deleted.

1827 (3) In IFGC, Section 502.1, the last sentence is deleted.

1828 (4) In IFGC, Section 503.4.1, the words "labeled in accordance with the product

1829 standards specified by the appliance manufacturer or shall be" are deleted.

1830 (5) In IFGC, Section 503.6.11.1, the following exception is added.

1831 "Exception: Existing and replacement Category I appliances may be located in rooms within
1832 the occupiable space provided all the following are met:

1833 1. The original installation was compliant with existing codes at the time of installation.

1834 2. The dwelling is equipped with a current, operable carbon monoxide detector, installed in
1835 accordance with Section 915 of the International Building Code.

1836 3. The AHJ has approved a replacement based on the extreme difficulty of an installing
1837 individual Category I vent system or a direct vent Category IV appliance.

1838 4. The room or space is used for no other purpose.

1839 5. Combustion air is provided in accordance with Section 304. Where outdoor combustion air
1840 is provided, the room has a solid weather-stripped door equipped with an approved self-closure
1841 device.

1842 6. Common vents terminate with a listed cap."

1843 ~~[(3)]~~ (6) In IFGC, Section 631.2, the following sentence is inserted before the first
1844 sentence: " In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by
1845 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor
1846 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in
1847 private residences or in apartment houses of less than five family units. Boilers shall be
1848 installed in accordance with their listing and labeling, with minimum clearances as prescribed
1849 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

1850 Section 25. Section **15A-3-801** is amended to read:

1851 **15A-3-801. General provisions.**

1852 The following are adopted as amendments to the IEBC and are applicable statewide:

1853 (1) In Section 202, the following definition is added: "BUILDING OFFICIAL. See
1854 Code Official."

1855 (2) In Section 202, the definition for "code official" is deleted and replaced with the
1856 following:

1857 "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)
1858 charged with the administration and enforcement of this code."

1859 (3) In Section 202, the definition for existing buildings is deleted and replaced with the

1860 following:

1861 "EXISTING BUILDING. A building that is not a dangerous building and that was either
1862 lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the
1863 code official."

1864 (4) In Section ~~[301.1]~~ 301.3, the exception is deleted.

1865 (5) Section ~~[403.5]~~ 503.6 is deleted and replaced with the following:

1866 "~~[403.5]~~ 503.6 Bracing for unreinforced masonry parapets and other appendages upon
1867 reroofing.

1868 Where the intended alteration requires a permit for reroofing and involves removal of roofing
1869 materials from more than 25% of the roof area of a building assigned to Seismic Design
1870 Category D, E, or F that has parapets constructed of unreinforced masonry or appendages such
1871 as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include installation of
1872 bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates compliance of
1873 such items. ~~[For purposes of this section, design seismic forces need not be taken greater than
1874 75% of those that would be required for the design of similar nonstructural components in new
1875 buildings of similar purpose and location]~~ Reduced seismic forces are permitted for design
1876 purposes."

1877 (6) In Section 705.1, Exception number 3, the following is added at the end of the
1878 exception:

1879 "This exception does not apply if the existing facility is undergoing a change of occupancy
1880 classification."

1881 (7) Section ~~[707.3.1]~~ 706.3.1 is deleted and replaced with the following:

1882 "~~[707.3.1]~~ 706.3.1 Bracing for unreinforced masonry bearing wall parapets and other
1883 appendages.

1884 Where a permit is issued for reroofing more than 25 percent of the roof area of a building
1885 assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced
1886 masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work
1887 shall include installation of bracing to resist the reduced International Building Code level
1888 seismic forces as specified in Section ~~[301.1.4.2]~~ 303 of this code unless an evaluation
1889 demonstrates compliance of such items."

1890 (8) Section 906.6 is deleted and replaced with the following:

1891 "906.6 Bracing for unreinforced masonry parapets and other appendages upon
1892 reroofing.

1893 Where the intended alteration requires a permit for reroofing and involves removal of
1894 roofing materials from more than 25% of the roof area of a building assigned to Seismic
1895 Design Category D, E, or F that has parapets constructed of unreinforced masonry or
1896 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include
1897 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates
1898 compliance with such items. Reduced seismic forces are permitted for design purposes."

1899 ~~[(8)]~~ (9) (a) Section ~~[1007.3.1]~~ 1006.3 is deleted and replaced with the following:

1900 ~~["1007.3.1 Compliance with the International Building Code Level Seismic Forces.~~

1901 ~~When a building or portion thereof is subject to a change of occupancy such that a change in~~
1902 ~~the nature of the occupancy results in a higher risk category based on Table 1604.5 of the~~
1903 ~~International Building Code or when such change of occupancy results in a design occupant~~
1904 ~~load increase of 100% or more, the building shall conform to the seismic requirements of the~~
1905 ~~International Building Code for the new risk category."]~~

1906 "1006.3 Seismic Loads. Where a change of occupancy results in a building being
1907 assigned to a higher risk category, or when a change of occupancy results in a design occupant
1908 load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of
1909 the International Building Code using full seismic forces."

1910 (b) Section ~~[1007.3.1]~~ 1006.3, exceptions 1 through 3 remain unchanged.

1911 (c) In Section ~~[1007.3.1]~~ 1006.3, add a new exception 4 as follows:

1912 "4. Where the design occupant load increase is less than 25 occupants and the occupancy
1913 category does not change."

1914 ~~[(9)]~~ (10) In Section 1012.7.3, exception 2 is deleted.

1915 ~~[(10)]~~ (11) In Section 1012.8.2, number 7 is added as follows:

1916 "7. When a change of occupancy in a building or portion of a building results in a Group R-2
1917 occupancy, not less than 20% of the dwelling or sleeping units shall be Type B dwelling or
1918 sleeping units. These dwelling or sleeping units may be located on any floor of the building
1919 provided with an accessible route. Two percent, but not less than one unit, of the dwelling or
1920 sleeping units shall be Type A dwelling units."

1921 Section 26. Section **15A-4-107** is amended to read:

1922 **15A-4-107. Amendments to IBC applicable to Sandy City.**

1923 The following amendments are adopted as amendments to the IBC for Sandy City:

1924 (1) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic
1925 sprinkler system shall be installed in accordance with NFPA 13 throughout buildings
1926 containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table
1927 B105.1 (2) of the [~~2015~~] 2018 International Fire Code. A one- or two-family dwelling or a
1928 town home is not required to have a fire sprinkler system except in accordance with Section
1929 15A-5-203."

1930 (2) A new IBC, Appendix [~~E~~] N, is added and adopted as follows: "Appendix [~~E~~] N
1931 BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS
1932 WILDLAND-URBAN INTERFACE AREAS
1933 AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban
1934 Interface Areas by Sandy City shall be constructed using ignition resistant construction as
1935 determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban
1936 Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to
1937 determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International
1938 Wildland-Urban Interface Code, as modified herein, shall be used to determine the
1939 requirements for Ignition Resistant Construction."

1940 (3) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new
1941 Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7
1942 shall only be required on the exposure side of the structure, as determined by the fire code
1943 official, where defensible space is less than 50 feet as defined in Section 603 of the 2006
1944 International Wildland-Urban Interface Code."

1945 (4) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION
1946 Subsections 505.5 and 505.7 are deleted.

1947 Section 27. **Effective date.**

1948 This bill takes effect on July 1, 2019.