

- 32 **15A-3-204**, as enacted by Laws of Utah 2011, Chapter 14
- 33 **15A-3-205**, as enacted by Laws of Utah 2011, Chapter 14
- 34 **15A-3-206**, as enacted by Laws of Utah 2011, Chapter 14
- 35 **15A-3-302**, as enacted by Laws of Utah 2011, Chapter 14
- 36 **15A-3-303**, as enacted by Laws of Utah 2011, Chapter 14
- 37 **15A-3-304**, as enacted by Laws of Utah 2011, Chapter 14
- 38 **15A-3-305**, as enacted by Laws of Utah 2011, Chapter 14
- 39 **15A-3-306**, as enacted by Laws of Utah 2011, Chapter 14
- 40 **15A-3-307**, as enacted by Laws of Utah 2011, Chapter 14
- 41 **15A-3-308**, as enacted by Laws of Utah 2011, Chapter 14
- 42 **15A-3-309**, as enacted by Laws of Utah 2011, Chapter 14
- 43 **15A-3-310**, as enacted by Laws of Utah 2011, Chapter 14
- 44 **15A-3-313**, as enacted by Laws of Utah 2011, Chapter 14
- 45 **15A-3-314**, as enacted by Laws of Utah 2011, Chapter 14
- 46 **15A-3-401**, as enacted by Laws of Utah 2011, Chapter 14
- 47 **15A-3-501**, as enacted by Laws of Utah 2011, Chapter 14
- 48 **15A-3-601**, as last amended by Laws of Utah 2012, Chapter 76
- 49 **15A-3-801**, as enacted by Laws of Utah 2011, Chapter 14

50 REPEALS:

- 51 **15A-4-302**, as enacted by Laws of Utah 2011, Chapter 14
- 52 **15A-4-304**, as enacted by Laws of Utah 2012, Chapter 76
- 53 **15A-4-305**, as enacted by Laws of Utah 2012, Chapter 76
- 54 **15A-4-306**, as enacted by Laws of Utah 2012, Chapter 76
- 55 **15A-4-307**, as enacted by Laws of Utah 2012, Chapter 76

56

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

58 Section 1. Section **15A-2-103** is amended to read:

59 **CHAPTER 2. ADOPTION OF STATE CONSTRUCTION CODE**

60 **Part 1. General Provisions**

61 **15A-2-103. Specific editions adopted of construction code of a nationally**
62 **recognized code authority.**

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

69 (a) the [~~2009~~] 2012 edition of the International Building Code, including Appendix J,
70 issued by the International Code Council;

71 (b) the [~~2009~~] 2012 edition of the International Residential Code, issued by the
72 International Code Council;

73 (c) the [~~2009~~] 2012 edition of the International Plumbing Code, issued by the
74 International Code Council;

75 (d) the [~~2009~~] 2012 edition of the International Mechanical Code, issued by the
76 International Code Council;

77 (e) the [~~2009~~] 2012 edition of the International Fuel Gas Code, issued by the
78 International Code Council;

79 (f) the 2011 edition of the National Electrical Code, issued by the National Fire
80 Protection Association;

81 (g) the 2009 edition of the International Energy Conservation Code, issued by the
82 International Code Council;

83 (h) subject to Subsection 15A-2-104(2), the HUD Code;

84 (i) subject to Subsection 15A-2-104(1), Appendix E of the [~~2009~~] 2012 edition of the
85 International Residential Code, issued by the International Code Council; and

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

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

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

95 **15A-2-104. Installation standards for manufactured housing.**

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

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

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

103 (i) Appendix E of the [~~2009~~] 2012 edition of the IRC, as issued by the International
104 Code Council for installations defined in Section AE101 of Appendix E; or

105 (ii) if an installation is beyond the scope of the [~~2009~~] 2012 edition of the IRC as
106 defined in Section AE101 of Appendix E, the 2005 edition of the NFPA 225 Model
107 Manufactured Home Installation Standard, issued by the National Fire Protection Association.

108 (c) A manufacturer, dealer, or homeowner is permitted to design for unusual
109 installation of a manufactured home not provided for in the manufacturer's standard installation
110 instruction, Appendix E of the [~~2009~~] 2012 edition of the IRC, or the 2005 edition of the
111 NFPA 225, if the design is approved in writing by a professional engineer or architect licensed
112 in Utah.

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

116 (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed
117 in the state that does not meet the local snow load requirements as specified in Chapter 3, Part
118 2, Statewide Amendments to IRC, except that the manufactured home shall have a protective
119 structure built over the home that meets the IRC and the snow load requirements under Chapter
120 3, Part 2, Statewide Amendments to IRC.

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

122 **CHAPTER 3. STATEWIDE AMENDMENTS INCORPORATED AS PART OF STATE**
123 **CONSTRUCTION CODE**

124 **Part 1. Statewide Amendments to IBC**

125 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

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

127 (2) (a) In IBC, Section 110, a new section is added as follows: "110.3.5,
128 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant
129 exterior wall envelope as required by Section 1403.2, and flashing as required by Section
130 1405.4 to prevent water from entering the weather-resistive barrier."

131 (b) The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6,
132 Lath or gypsum board inspection; 110.3.7, Fire- and smoke-resistant penetrations; 110.3.8
133 Energy efficiency inspections; 110.3.9, Other inspections; 110.3.10, Special inspections; and
134 110.3.11, Final inspection.

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

139 (4) In IBC, Section 202, the [~~definition for "Assisted Living Facility" is deleted and~~
140 ~~replaced with the following: "ASSISTED LIVING FACILITY. See Section 308.1.1.]~~
141 following definition is added for Ambulatory Surgical Center: "AMBULATORY SURGICAL
142 CENTER. A building or portion of a building licensed by the Utah Department of Health
143 where procedures are performed that may render patients incapable of self preservation where
144 care is less than 24 hours. See Utah Administrative Code R432-13."

145 (5) In IBC, Section 202, the definition for [~~"Child Care Facilities" is deleted and~~
146 ~~replaced with the following: "CHILD CARE FACILITIES. See Section 308.3.1.]"~~ Foster Care
147 Facilities is modified by changing the word "Foster" to "Child."

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

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

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

155 (9) In IBC, Section 202, the following definition is added for Type II Assisted Living

156 Facility: "TYPE II ASSISTED LIVING FACILITY. See Section 308.1.2."

157 ~~[(6)] (10) In the list in IBC, Section 304.1, the following words are added after the~~
158 ~~words "Ambulatory [health] care facilities" [is deleted and replaced with "Ambulatory health~~
159 ~~care facilities with four or fewer surgical operating rooms.": "where four or more care~~
160 ~~recipients are rendered incapable of self preservation."~~

161 ~~[(7)] (11) In IBC, Section 305.2, [is deleted and replaced with the following: "305.2~~
162 ~~Day care. The use of a building or structure, or portion thereof, for educational, supervision,~~
163 ~~child day care centers, or personal care services of more than four children shall be classified as~~
164 ~~a Group E occupancy. See Section 424 for special requirements for Group E child day care~~
165 ~~centers.] the words "child care centers," are inserted after the word "supervision," and the~~
166 ~~following sentence is added at the end of the paragraph: See Section 425 for special~~
167 ~~requirements for Day Care."~~

168 ~~[Exception: Areas used for child day care purposes with a Residential Certificate or a Family~~
169 ~~License, as defined in Utah Administrative Code, R430-90, Licensed Family Child Care, may~~
170 ~~be located in a Group R-2 or R-3 occupancy as provided in Section 310.1 or shall comply with~~
171 ~~the International Residential Code in accordance with Section 101.2. Areas used for Hourly~~
172 ~~Child Care Centers, as defined in Utah Administrative Code, R430-60, or Out of School Time~~
173 ~~Programs, as defined in Utah Administrative Code, R430-70, may be classified as accessory~~
174 ~~occupancies."]~~

175 ~~[(8) In IBC, Section 308, the following definitions are added: "308.1.1 Definitions. The~~
176 ~~following words and terms shall, for the purposes of this section and as used elsewhere in this~~
177 ~~code, have the meanings shown herein:]~~

178 ~~(12) In IBC, Section 305.2.2 and 305.2.3, the word "five" is deleted and replaced with~~
179 ~~the word "four" in both places.~~

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

186 ~~(14) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child Care Centers.~~

187 Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code, R430-60,
188 Child Care Center as defined in Utah Administrative Code, R430-100, or Out of School Time
189 Programs, as defined in Utah Administrative Code, R430-70, may be classified as accessory
190 occupancies.

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

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

198 Occupancies. Limited capacity, type I assisted living facilities with two to five residents shall
199 be classified as R-3 occupancies. Small, type I assisted living facilities with six to sixteen
200 residents shall be classified as R-4 occupancies. Large, type I assisted living facilities with
201 over sixteen residents shall be classified as I-1 occupancies.

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

205 Semi-Independent. A person who is:

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 with the
208 physical assistance of one person.

209 Occupancies. Limited capacity, type II assisted living facilities with two to five residents shall
210 be classified as R-4 occupancies. Small, type II assisted living facilities with six to sixteen
211 residents shall be classified as I-1 occupancies. Large, type II assisted living facilities with
212 over sixteen residents shall be classified as I-2 occupancies.

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

218 ~~[(9) In IBC, Section 308.2, the words "Assisted living facilities" are deleted and~~
219 ~~replaced with "Type I Assisted living facilities."]~~

220 ~~[(10)] (16) In IBC, Section 308.3, [is deleted and replaced with the following: "308.3~~
221 ~~Group I-2. This occupancy shall include buildings and structures used for medical, surgical,~~
222 ~~psychiatric, nursing, or custodial care on a 24-hour basis of more than three persons who are~~
223 ~~not capable of self-preservation. This group shall include, but not be limited to the following:~~
224 ~~hospitals, nursing homes (both intermediate care facilities and skilled nursing facilities), mental~~
225 ~~hospitals, detoxification facilities, ambulatory surgical centers with five or more operating~~
226 ~~rooms where care is less than 24 hours, and type II assisted living facilities. Type II assisted~~
227 ~~living facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted~~
228 ~~living facilities as defined in 308.1.1 with at least six and not more than sixteen residents shall~~
229 ~~be classified as a Group I-1 facility."]~~ the words "(see Section 308.2.1)" are added after the
230 words "assisted living facilities".

231 ~~[(11)] (17) In IBC, Section 308.3.1, [the definition for "CHILD CARE FACILITIES" is~~
232 ~~deleted and replaced with the following: "CHILD CARE FACILITIES. A child care facility, as~~
233 ~~licensed by the Utah Department of Human Services in Utah Administrative Code, R501, that~~
234 ~~provides care on a 24-hour basis to more than four children 2 1/2 years of age or less shall be~~
235 ~~classified as Group I-2."]~~ all of the words after the first International Residential Code are
236 deleted.

237 ~~[(12) IBC, Section 308.5, is deleted and replaced with the following: "308.5 Group I-4,~~
238 ~~day care facilities. This group shall include buildings and structures occupied by persons of~~
239 ~~any age who receive custodial care less than 24 hours by individuals other than parents or~~
240 ~~guardians, relatives by blood, marriage, or adoption, and in a place other than the home of the~~
241 ~~person cared for. A facility such as the above with four or fewer persons shall be classified as~~
242 ~~an R-3 or shall comply with the International Residential Code in accordance with Section~~
243 ~~101.2. Places of worship during religious functions and Group E child day care centers are not~~
244 ~~included."]~~

245 ~~[(13) IBC, Section 308.5.2, is deleted.]~~

246 ~~[(14) In IBC, Section 310.1, in the subsection designated as R-1, at the end of the~~
247 ~~sentence beginning with "Congregate living facilities" the following is added: "or shall comply~~
248 ~~with the International Residential Code."]~~

249 ~~[(15) In IBC, Section 310.1, in the subsection designated as R-2, at the end of the~~
250 ~~sentence beginning with "Congregate living facilities" the following is added: "or shall comply~~
251 ~~with the International Residential Code."]~~

252 ~~[(16) In IBC, Section 310.1, the following is added at the end of the subsection~~
253 ~~designated as R-3: "Areas used for day care purposes may be located in a residential dwelling~~
254 ~~unit under all of the following conditions:]~~
255 ~~[1. Compliance with the Utah Administrative Code, R710-8, Day Care Rules, as enacted under~~
256 ~~the authority of the Utah Fire Prevention Board:]~~
257 ~~[2. Use is approved by the Utah Department of Health, as enacted under the authority of the~~
258 ~~Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following~~
259 ~~categories:]~~
260 ~~[a. Utah Administrative Code, R430-50, Residential Certificate Child Care:]~~
261 ~~[b. Utah Administrative Code, R430-90, Licensed Family Child Care:]~~
262 ~~[3. Compliance with all zoning regulations of the local regulator."]~~

263 ~~[(17) In IBC, Section 310.1, the subsection designated as R-4 is deleted and replaced~~
264 ~~with the following: "R-4: Residential occupancies shall include buildings arranged for~~
265 ~~occupancy as Type I Assisted Living Facilities or Residential Treatment/Support Assisted~~
266 ~~Living Facilities including more than five but not more than 16 residents, excluding staff.]~~
267 ~~[Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3~~
268 ~~except as otherwise provided for in this code."]~~

269 ~~[(18) In IBC, Section 310.2, the definition for "Residential Care/Assisted Living~~
270 ~~Facilities" is deleted and replaced with the following: "Assisted Living Facilities, see Section~~
271 ~~308.1.1".]~~

272 (18) In IBC, Section 308.4, the following changes are made:

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

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

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

278 (d) "The words "Ambulatory Surgical Centers with five or more operating rooms" are
279 added to the list."

280 (19) In IBC, Section 308.4.1, the word "five" is deleted and replaced with the word
281 "three" in both places.

282 (20) In IBC, Section 308.6, the word "five" is deleted and replaced with the word
283 "four".

284 (21) In IBC, Section 308.6.1, the following changes are made:

285 (a) The word "five" is deleted and replaced with the word "four".

286 (b) The words "2 ½ years or less of age" are deleted and replaced with "under the age
287 of two".

288 (c) The following sentence is added at the end: "See Section 425 for special
289 requirements for Day Care.

290 (22) In IBC, Section 308.6.3 and 308.6.4, the word "five" is deleted and replaced with
291 the word "four" in both places and the following sentence is added at the end: "See Section 425
292 for special requirements for Day Care."

293 (23) In IBC, Section 310.5, the words "and single family dwellings complying with the
294 IRC" are added after the "Residential occupancies".

295 (24) In IBC, Section 310.5.1, the words "other than Child Care" are inserted after the
296 word "dwelling" in the first sentence and the following sentence is added at the end. "See
297 Section 425 for special requirements for Child Day Care."

298 (25) A new IBC, Section 310.5.2 is added as follows: "310.5.2 Child Care. Areas used
299 for child care purposes may be located in a residential dwelling unit under all of the following
300 conditions and Section 425:

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

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

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

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

308 3. Compliance with all zoning regulations of the local regulator.

309 (26) In IBC, Section 310.6, the words "(see Section 308.2.1)" are added after "assisted
310 living facilities".

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

312 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

313 (1) Section IBC, 403.5.5, is deleted.

314 [~~(2) In IBC, Section 422.1, the words "Sections 422.1 to 422.6" are replaced with~~
315 ~~"Sections 422.1 to 422.7".]~~

316 [~~(3) In IBC, Section 422, a new section is added as follows: "422.7 Separation-~~
317 ~~Occupancies classified as Group B Ambulatory Health Care Facilities shall be separated from~~
318 ~~all surrounding tenants and occupancies in accordance with Table 508.4 but not less than~~
319 ~~one-hour fire barrier when the suite is capable of providing care for four or more care recipients~~
320 ~~who are incapable of self-preservation."]~~

321 [~~(4) A new IBC, Section 424, is added as follows: "Section 424 Group E Child Day~~
322 ~~Care Centers. Group E child day care centers shall comply with Section 424:]~~

323 [~~424.1 Location at grade. Group E child day care centers shall be located at the level of exit~~
324 ~~discharge.]~~

325 [~~Exception: Child day care spaces for children over the age of 24 months may be located on the~~
326 ~~second floor of buildings equipped with automatic fire protection throughout and an automatic~~
327 ~~fire alarm system.]~~

328 [~~424.2 Egress. All Group E child day care spaces with an occupant load of more than 10 shall~~
329 ~~have a second means of egress. If the second means of egress is not an exit door leading~~
330 ~~directly to the exterior, the room shall have an emergency escape and rescue window~~
331 ~~complying with Section 1029:]~~

332 [~~424.3 All Group E Child Day Care Centers shall comply with Utah Administrative Code,~~
333 ~~R430-100, Child Care Centers."]~~

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

339 Exception: Open parking garages equipped throughout with an automatic sprinkler system in
340 accordance with Section 903.3.1.1 and a standpipe system is not required by Section 905.3.1."

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

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

346 (4) In IBC, Section 422.2, a new paragraph is added as follows: "422.2 Separations:
347 Ambulatory care facilities licensed by the Utah Department of Health shall be separated from
348 adjacent tenants with a fire barrier having a minimum one hour fire-resistance rating. Any
349 level below the level of exit discharge shall be separated from the level of exit discharge by a
350 horizontal assembly having a minimum one hour fire-resistance rating.

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

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

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

355 (5) A new IBC Section 425, Day Care is added as follows:

356 "425.1 Detailed Requirements. In addition to the occupancy and construction requirements in
357 this code, the additional provisions of this section shall apply to all Day Care in accordance
358 with Utah Administrative Code R710-8 Day Care Rules.

359 425.2 Definitions.

360 425.2.1 Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized deputies,
361 or the local fire enforcement authority code official.

362 425.2.2 Day Care Facility: Any building or structure occupied by clients of any age who
363 receive custodial care for less than 24 hours by individuals other than parents, guardians,
364 relatives by blood, marriage or adoption.

365 425.2.3 Day Care Center: Providing care for five or more clients in a place other than the home
366 of the person cared for. This would also include Child Care Centers, Out of School Time or
367 Hourly Child Care Centers licensed by the Department of Health.

368 425.2.4 Family Day Care: Providing care for clients listed in the following two groups:

369 425.2.4.1 Type 1: Services provided for five to eight clients in a home. This would also
370 include a home that is certified by the Department of Health as Residential Certificate Child
371 Care or licensed as Family Child Care.

372 425.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient

373 staffing. This would also include a home that is licensed by the Department of Health as
374 Family Child Care.
375 425.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under the
376 authority of the Utah Fire Prevention Board.
377 425.3. Family Day Care.
378 425.3.1 Family Day Care units shall have on each floor occupied by clients, two separate
379 means of egress, arranged so that if one is blocked the other will be available.
380 425.3.2 Family Day Care units that are located in the basement or on the second story shall be
381 provided with two means of egress, one of which shall discharge directly to the outside.
382 425.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five to eight
383 clients in a home, located on the ground level or in a basement, may use an emergency escape
384 or rescue window as allowed in IFC, Chapter 10, Section 1029.
385 425.3.3 Family Day Care units shall not be located above the second story.
386 425.3.4 In Family Day Care units, clients under the age of two shall not be located above or
387 below the first story.
388 425.3.4.1 Clients under the age of two may be housed above or below the first story where
389 there is at least one exit that leads directly to the outside and complies with IFC, Section 1009
390 or Section 1010 or Section 1026.
391 425.3.5 Family Day Care units located in split entry/split level type homes in which stairs to
392 the lower level and upper level are equal or nearly equal, may have clients housed on both
393 levels when approved by the AHJ.
394 425.3.6 Family Day Care units shall have a portable fire extinguisher on each level occupied by
395 clients, which shall have a classification of not less than 2A:10BC, and shall be serviced in
396 accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.
397 425.3.7 Family Day Care units shall have single station smoke detectors in good operating
398 condition on each level occupied by clients. Battery operated smoke detectors shall be
399 permitted if the facility demonstrates testing, maintenance, and battery replacement to insure
400 continued operation of the smoke detectors.
401 425.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap, shall
402 have at least one window or door approved for emergency escape.
403 425.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall include the

404 complete evacuation from the building of all clients and staff. At least annually, in Type I
405 Family Day Care units, the fire drill shall include the actual evacuation using the escape or
406 rescue window, if one is used as a substitute for one of the required means of egress.
407 425.4 Day Care Centers.
408 425.4.1 Day Care Centers shall comply with either I-4 requirements or E requirements of the
409 IBC, whichever is applicable for the type of Day Care Center.
410 425.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4, Section
411 405.
412 425.4.3 Location at grade. Group E child day care centers shall be located at the level of exit
413 discharge.
414 425.4.3.1 Child day care spaces for children over the age of 24 months may be located on the
415 second floor of buildings equipped with automatic fire protection throughout and an automatic
416 fire alarm system.
417 425.4.4 Egress. All Group E child day care spaces with an occupant load of more than 10 shall
418 have a second means of egress. If the second means of egress is not an exit door leading
419 directly to the exterior, the room shall have an emergency escape and rescue window
420 complying with Section 1029.
421 425.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative Code,
422 R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of
423 School Time.
424 425.5 Requirements for all Day Care
425 425.5.1 Heating equipment in spaces occupied by children shall be provided with partitions,
426 screens, or other means to protect children from hot surfaces and open flames.
427 425.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All staff shall
428 be trained on the fire escape plan and procedure.
429 ~~(5)~~ (6) In IBC, Section 504.2, a new section is added as follows: "504.2.1
430 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities shall be
431 allowed to be two stories of Type V-A construction when all of the following apply:
432 1. All secured units are located at the level of exit discharge in compliance with Section
433 1008.1.9.3 as amended;
434 2. The total combined area of both stories shall not exceed the total allowable area for a

435 one-story building; and

436 3. All other provisions that apply in Section 407 have been provided."

437 ~~[(6) In IBC, Table 508.4, a new footnote g is added as follows: "g. See Section 422.7~~
438 ~~for additional requirements of Group B Ambulatory Health Care Facilities."]~~

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

440 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

441 ~~[(1) In IBC, Section 707.5.1, a new exception 4 is added as follows: "4. Group B~~
442 ~~Ambulatory Health Care Facilities."]~~

443 ~~[(2) In IBC, Section (F)902, the definition for record drawings is deleted and replaced~~
444 ~~with the following: "(F) RECORD DRAWINGS. Drawings ("as built") that document all~~
445 ~~aspects of a fire protection system as installed."]~~

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

452 901.8.1 A minimum clear and unobstructed distance of 12-inches shall be provided from the
453 installed equipment to the elements of permanent construction.

454 901.8.2 A minimum clear and unobstructed distance of 12-inches shall be provided between
455 all other installed equipment and appliances.

456 901.8.3 A clear and unobstructed width of 36-inches shall be provided in front of all installed
457 equipment and appliances, to allow for inspection, service, repair or replacement without
458 removing such elements of permanent construction or disabling the function of a required
459 fire-resistance-rated assembly.

460 901.8.4 Automatic sprinkler system riser rooms shall be provided with a clear and
461 unobstructed passageway to the riser room of not less than 36-inches, and openings into the
462 room shall be clear and unobstructed, with doors swinging in the outward direction from the
463 room and the opening providing a clear width of not less than 34-inches and a clear height of
464 the door opening shall not be less than 80 inches.

465 901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the

466 fire pump room of not less than 72-inches, and openings into the room shall be clear,
467 unobstructed and large enough to allow for the removal of the largest piece of equipment, with
468 doors swinging in the outward direction from the room and the opening providing a clear width
469 of not less than 68-inches and a clear height of the door opening shall not be less than 80
470 inches."

471 ~~[(3)]~~ (2) In IBC, Section (F)903.2.2, the words ~~["all fire areas"]~~ "the entire floor" are
472 deleted and replaced with ~~["buildings"]~~ "a building" and the last paragraph is deleted.

473 ~~[(4)]~~ (3) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the
474 following: "2. A Group F-1 fire area is located more than three stories above the lowest level
475 of fire department vehicle access."

476 ~~[(5)]~~ (4) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the
477 following: "2. A Group M fire area is located more than three stories above the lowest level of
478 fire department vehicle access."

479 ~~[(6)]~~ (5) IBC, ~~[Section]~~ Sections (F)903.2.8, ~~[is]~~ (F)903.2.8.1, and (F)903.2.8.2 are
480 deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system
481 installed in accordance with Section 903.3 shall be provided throughout all buildings with a
482 Group R fire area.

483 Exceptions:

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

487 2. Group R-4 fire areas not more than 4,500 gross square feet and not containing more than 16
488 residents, provided the building is equipped throughout with an approved fire alarm system that
489 is interconnected and receives its primary power from the building wiring and a commercial
490 power system."

491 ~~[(7)]~~ (6) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the
492 following: "2. A Group S-1 fire area is located more than three stories above the lowest level
493 of fire department vehicle access."

494 ~~[(8)]~~ IBC, Section (F)903.2.10, is deleted and replaced with the following: "(F)903.2.10
495 Group S-2. An automatic sprinkler system shall be provided throughout buildings classified as
496 parking garages in accordance with Section 406.2 or where located beneath other groups.]

497 [~~Exception 1: Parking garages of less than 5,000 square feet (464 m²) accessory to Group R-3~~
498 ~~occupancies.]~~

499 [~~Exception 2: Open parking garages not located beneath other groups if one of the following~~
500 ~~conditions is met:]~~

501 [~~a. Access is provided for fire fighting operations to within 150 feet (45,720 mm) of all~~
502 ~~portions of the parking garage as measured from the approved fire department vehicle access;~~
503 ~~or]~~

504 [~~b. Class I standpipes are installed throughout the parking garage."]~~

505 [~~(9) In IBC, Section (F)903.2.10.1, the last clause "where the fire area exceeds 5,000~~
506 ~~square feet (464 m²)" is deleted.]~~

507 [~~(10)~~ (7) IBC, Section (F)904.11, is deleted and replaced with the following:

508 "(F)904.11 Commercial cooking systems. The automatic fire-extinguishing system for
509 commercial cooking systems shall be of a type recognized for protection of commercial
510 cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems
511 shall be tested in accordance with UL 300 and listed and labeled for the intended application.
512 The system shall be installed in accordance with this code, its listing and the manufacturer's
513 installation instructions.

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

517 [~~(11)~~ (8) IBC, Subsections (F)904.11.3, (F)904.11.3.1, (F)904.11.4, and (F)904.11.4.1,
518 are deleted.

519 [~~(12) A new IBC, Section (F)907.9, is added as follows: "Section (F)907.9 Carbon~~
520 ~~monoxide alarms. Carbon monoxide alarms shall be installed on each habitable level of a~~
521 ~~dwelling unit or sleeping unit in Groups R-2, R-3, R-4, and I-1 equipped with fuel burning~~
522 ~~appliances and in dwelling units that have attached garages. If more than one carbon monoxide~~
523 ~~alarm is required, they shall be interconnected as required in the International Fire Code,~~
524 ~~Chapter 9, Section 907.2.11.3. In new construction, carbon monoxide alarms shall receive~~
525 ~~their primary power as required in the International Fire Code, Chapter 9, Section 907.2.11.4.~~
526 ~~Listed single- and multiple-station carbon monoxide alarms shall comply with UL 2034 and~~
527 ~~shall be installed in accordance with the provisions of this code and NFPA 720."]~~

528 (9) In IBC, Section (F)908.7, the exceptions are deleted and the following sentence is
529 added after the first sentence: "A minimum of one carbon monoxide alarm shall be installed on
530 each habitable level."

531 (10) In IBC, Section (F)908.7, the following new subsections are added:
532 "(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be
533 installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be
534 interconnected in such a manner that the activation of one alarm will activate all of the alarms.
535 Physical interconnection of carbon monoxide alarms shall not be required where listed wireless
536 alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be
537 clearly audible in all bedrooms over background noise levels with all intervening doors closed.
538 (F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive
539 their primary power from the building wiring where such wiring is served from a commercial
540 source and shall be equipped with a battery backup. Carbon monoxide alarms with integral
541 strobes that are not equipped with battery backup shall be connected to an emergency electrical
542 system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall
543 be permanent and without a disconnecting switch other than as required for overcurrent
544 protection.
545 Exception: Carbon monoxide alarms are not required to be equipped with battery backup where
546 they are connected to an emergency electrical system."

547 (11) IBC, Section (F)908.7.1, is renumbered to 908.7.3.

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

549 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

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

554 ~~[(b) the word "delayed" is deleted throughout and replaced with "controlled"; and]~~

555 ~~[(c) the last sentence before the numbered subsections 1 through 6 is deleted.]~~

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

559 ~~[(2)]~~ (3) In IBC, Section ~~[1009.4.2]~~ 1009.7.2, exception 5 is deleted and replaced with
560 the following: "5. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies,
561 and in Group U occupancies that are accessory to a Group R-3 occupancy, or accessory to
562 individual dwelling units in Group R-2 occupancies, the maximum riser height shall be 8
563 inches (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum
564 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum winder
565 tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not
566 more than 1.25 inches (32 mm) shall be provided on stairways with solid risers where the tread
567 depth is less than 10 inches (254 mm)."

568 ~~[(3)]~~ (4) In IBC, Section ~~[1009.12]~~ 1009.15, a new exception 6 is added as follows: "6.
569 In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U,
570 which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails
571 shall be provided on at least one side of stairways consisting of four or more risers."

572 ~~[(4) In IBC, Section 1013.2, the words "adjacent fixed seating" are deleted.]~~

573 ~~[(5) In IBC, Section 1013.2, a new exception 5 is added as follows: "5. For~~
574 ~~occupancies in Group R-3 and within individual dwelling units in occupancies in Group R-2,~~
575 ~~as applicable in Section 101.2, guards shall form a protective barrier not less than 36 inches~~
576 ~~(914 mm) in height."]~~

577 ~~[(6) In IBC, Section 1015.2.2, the following sentence is added at the end: "Additional~~
578 ~~exits or exit access doorways shall be arranged a reasonable distance apart so that if one~~
579 ~~becomes blocked, the others will be available."]~~

580 (5) In IBC, Section 1011.5, the words ", including when the building may not be fully
581 occupied." Are added at the end of the sentence.

582 ~~[(7)]~~ (6) IBC, Section 1024, is deleted.

583 ~~[(8) A new IBC, Section 1109.7.1, is added as follows: "1109.7.1 Platform~~
584 ~~(wheelchair) lifts. All platform (wheelchair) lifts shall be capable of independent operation~~
585 ~~without a key."]~~

586 (7) In IBC, Section 1028.12, exception 2 is deleted.

587 (8) In IBC, Section 1109.8, the following words "shall be capable of operation without
588 a key and" are inserted in the second sentence between the words "lift" and "shall".

589 (9) In IBC, Section 1208.4, subparagraph 1 is deleted and replaced with the following:

590 "1. The unit shall have a living room of not less than 165 square feet (15.3 m²) of floor area.
 591 An additional 100 square feet (9.3 m²) of floor area shall be provided for each occupant of such
 592 unit in excess of two."

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

594 **15A-3-107. Amendments to Chapter 16 of IBC.**

595 (1) In IBC, Table 1604.5, [~~Occupancy~~] Risk Category III, in the sentence that begins
 596 Group I-2, a new footnote [b] c is added as follows: [~~b~~] c. Type II Assisted Living Facilities
 597 that are I-2 occupancy classifications in accordance with Section 308 shall be [~~Occupancy~~]
 598 Risk Category II in this table."

599 (2) In IBC, Section [~~1605.2.1, the formula shown as "f₂ = 0.2 for other roof~~
 600 ~~configurations" is~~] 1605.2 in the portion of the definition for the value of f₂, the words "and 0.2
 601 for other roof configurations" are deleted and replaced with the following: "f₂ = 0.20 +
 602 .025(A-5) for other configurations where roof snow load exceeds 30 psf;
 603 f₂ = 0 for roof snow loads of 30 psf (1.44kN/m²) or less.

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

605 (3) In IBC, Section 1605.3.1 and Section 1605.3.2, exception 2 in each section is
 606 deleted and replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot
 607 (1.44 kNm²) or less need not be combined with seismic loads. Where flat roof snow loads
 608 exceed 30 pounds per square foot (1.44 kNm²), the snow loads may be reduced in accordance
 609 with the following in load combinations including both snow and seismic loads. W_s as
 610 calculated below, shall be combined with seismic loads.

611 $W_s = (0.20 + 0.025(A-5))P_f$ is greater than or equal to $0.20 P_f$.

612 Where:

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

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

615 P_f = Design roof snow load, psf.

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

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

620 Except as modified in Sections 1608.1.1, 1608.1.2, and 1608.1.3, design snow loads shall be

621 determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be less
622 than that determined by Section 1607."

623 (5) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Section 7.4.5 of
624 Chapter 7 of ASCE 7 referenced in Section 1608.1 of the IBC is deleted and replaced with the
625 following: "Section 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads exceed
626 75 psf, eaves shall be capable of sustaining a uniformly distributed load of $2p_f$ on all
627 overhanging portions. No other loads except dead loads shall be present on the roof when this
628 uniformly distributed load is applied. All building exits under down-slope eaves shall be
629 protected from sliding snow and ice."

630 (6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow
631 Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the jurisdictions
632 identified in that table. Otherwise, the ground snow load, P_g , to be used in the determination of
633 design snow loads for buildings and other structures shall be determined by using the following
634 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
635 A_o .

636 WHERE:

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

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

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

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

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

642 The building official may round the roof snow load to the nearest 5 psf. The ground snow
643 load, P_g , may be adjusted by the building official when a licensed engineer or architect submits
644 data substantiating the adjustments. ~~[A record of such action together with the substantiating~~
645 ~~data shall be provided to the division for a permanent record.]~~

646 ~~[The building official may also directly adopt roof snow loads in accordance with Table~~
647 ~~1608.1.2(b), provided the site is no more than 100 ft. higher than the listed elevation.]~~

648 Where the minimum roof live load in accordance with Section 1607.11 is greater than the
649 design roof snow load, such roof live load shall be used for design, however, it shall not be
650 reduced to a load lower than the design roof snow load. Drifting need not be considered for
651 roof snow loads less than 20 psf."

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

| 653 "TABLE NO. 1608.1.2(a) | | | | |
|--|-----------|----------------|----|----------------|
| 654 STATE OF UTAH - REGIONAL SNOW LOAD FACTORS | | | | |
| 655 | COUNTY | P _o | S | A _o |
| 656 | Beaver | 43 | 63 | 6.2 |
| 657 | Box Elder | 43 | 63 | 5.2 |
| 658 | Cache | 50 | 63 | 4.5 |
| 659 | Carbon | 43 | 63 | 5.2 |
| 660 | Daggett | 43 | 63 | 6.5 |
| 661 | Davis | 43 | 63 | 4.5 |
| 662 | Duchesne | 43 | 63 | 6.5 |
| 663 | Emery | 43 | 63 | 6.0 |
| 664 | Garfield | 43 | 63 | 6.0 |
| 665 | Grand | 36 | 63 | 6.5 |
| 666 | Iron | 43 | 63 | 5.8 |
| 667 | Juab | 43 | 63 | 5.2 |
| 668 | Kane | 36 | 63 | 5.7 |
| 669 | Millard | 43 | 63 | 5.3 |
| 670 | Morgan | 57 | 63 | 4.5 |
| 671 | Piute | 43 | 63 | 6.2 |
| 672 | Rich | 57 | 63 | 4.1 |
| 673 | Salt Lake | 43 | 63 | 4.5 |
| 674 | San Juan | 43 | 63 | 6.5 |
| 675 | Sanpete | 43 | 63 | 5.2 |
| 676 | Sevier | 43 | 63 | 6.0 |
| 677 | Summit | 86 | 63 | 5.0 |
| 678 | Tooele | 43 | 63 | 4.5 |
| 679 | Uintah | 43 | 63 | 7.0 |
| 680 | Utah | 43 | 63 | 4.5 |

| | | | | |
|-----|------------|----|----|-----|
| 681 | Wasatch | 86 | 63 | 5.0 |
| 682 | Washington | 29 | 63 | 6.0 |
| 683 | Wayne | 36 | 63 | 6.5 |
| 684 | Weber | 43 | 63 | 4.5 |

| | | | | |
|-----|---|-------------|------------------------|--------------------------|
| 685 | [TABLE NO. 1608.1.2(b)] | | | |
| 686 | [RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)] | | | |
| 687 | | | [Roof Snow Load (PSF)] | [Ground Snow Load (PSF)] |
| 688 | [Beaver County] | | | |
| 689 | [Beaver] | [5,920 ft.] | [43] | [62] |
| 690 | [Box Elder County] | | | |
| 691 | [Brigham City] | [4,300 ft.] | [30] | [43] |
| 692 | [Tremonton] | [4,290 ft.] | [30] | [43] |
| 693 | [Cache County] | | | |
| 694 | [Logan] | [4,530 ft.] | [35] | [50] |
| 695 | [Smithfield] | [4,595 ft.] | [35] | [50] |
| 696 | [Carbon County] | | | |
| 697 | [Price] | [5,550 ft.] | [30] | [43] |
| 698 | [Daggett County] | | | |
| 699 | [Manila] | [5,377 ft.] | [30] | [43] |
| 700 | [Davis County] | | | |
| 701 | [Bountiful] | [4,300 ft.] | [30] | [43] |
| 702 | [Farmington] | [4,270 ft.] | [30] | [43] |
| 703 | [Layton] | [4,400 ft.] | [30] | [43] |
| 704 | [Fruit Heights] | [4,500 ft.] | [40] | [57] |
| 705 | [Duchesne County] | | | |
| 706 | [Duchesne] | [5,510 ft.] | [30] | [43] |
| 707 | [Roosevelt] | [5,104 ft.] | [30] | [43] |

| | | | | |
|-----|--------------------|-------------|------|------|
| 708 | [Emery County] | | | |
| 709 | [Castledale] | [5,660 ft.] | [30] | [43] |
| 710 | [Green River] | [4,070 ft.] | [25] | [36] |
| 711 | [Garfield County] | | | |
| 712 | [Panguitch] | [6,600 ft.] | [30] | [43] |
| 713 | [Grand County] | | | |
| 714 | [Moab] | [3,965 ft.] | [25] | [36] |
| 715 | [Iron County] | | | |
| 716 | [Cedar City] | [5,831 ft.] | [30] | [43] |
| 717 | [Juab County] | | | |
| 718 | [Nephi] | [5,130 ft.] | [30] | [43] |
| 719 | [Kane County] | | | |
| 720 | [Kanab] | [5,000 ft.] | [25] | [36] |
| 721 | [Millard County] | | | |
| 722 | [Millard] | [5,000 ft.] | [30] | [43] |
| 723 | [Delta] | [4,623 ft.] | [30] | [43] |
| 724 | [Morgan County] | | | |
| 725 | [Morgan] | [5,064 ft.] | [40] | [57] |
| 726 | [Piute County] | | | |
| 727 | [Piute] | [5,996 ft.] | [30] | [43] |
| 728 | [Rich County] | | | |
| 729 | [Woodruff] | [6,315 ft.] | [40] | [57] |
| 730 | [Salt Lake County] | | | |
| 731 | [Murray] | [4,325 ft.] | [30] | [43] |
| 732 | [Salt Lake City] | [4,300 ft.] | [30] | [43] |
| 733 | [Sandy] | [4,500 ft.] | [30] | [43] |
| 734 | [West Jordan] | [4,375 ft.] | [30] | [43] |
| 735 | [West Valley] | [4,250 ft.] | [30] | [43] |

| | | | | |
|-----|-------------------|-------------|-------|-------|
| 736 | [San Juan County] | | | |
| 737 | [Blanding] | [6,200 ft.] | [30] | [43] |
| 738 | [Monticello] | [6,820 ft.] | [35] | [50] |
| 739 | [Sanpete County] | | | |
| 740 | [Fairview] | [6,750 ft.] | [35] | [50] |
| 741 | [Mt. Pleasant] | [5,900 ft.] | [30] | [43] |
| 742 | [Manti] | [5,740 ft.] | [30] | [43] |
| 743 | [Ephraim] | [5,540 ft.] | [30] | [43] |
| 744 | [Gunnison] | [5,145 ft.] | [30] | [43] |
| 745 | [Sevier County] | | | |
| 746 | [Salina] | [5,130 ft.] | [30] | [43] |
| 747 | [Richfield] | [5,270 ft.] | [30] | [43] |
| 748 | [Summit County] | | | |
| 749 | [Coalville] | [5,600 ft.] | [60] | [86] |
| 750 | [Kamas] | [6,500 ft.] | [70] | [100] |
| 751 | [Park City] | [6,800 ft.] | [100] | [142] |
| 752 | [Park City] | [8,400 ft.] | [162] | [231] |
| 753 | [Summit Park] | [7,200 ft.] | [90] | [128] |
| 754 | [Tooele County] | | | |
| 755 | [Tooele] | [5,100 ft.] | [30] | [43] |
| 756 | [Uintah County] | | | |
| 757 | [Vernal] | [5,280 ft.] | [30] | [43] |
| 758 | [Utah County] | | | |
| 759 | [American Fork] | [4,500 ft.] | [30] | [43] |
| 760 | [Orem] | [4,650 ft.] | [30] | [43] |
| 761 | [Pleasant Grove] | [5,000 ft.] | [30] | [43] |
| 762 | [Provo] | [5,000 ft.] | [30] | [43] |
| 763 | [Spanish Fork] | [4,720 ft.] | [30] | [43] |

| | | | | |
|-----|---------------------|-------------|----------|------|
| 764 | [Wasatch County] | | | |
| 765 | [Heber] | [5,630 ft.] | [60] | [86] |
| 766 | [Washington County] | | | |
| 767 | [Central] | [5,209 ft.] | [25] | [36] |
| 768 | [Dameron] | [4,550 ft.] | [25] | [36] |
| 769 | [Leeds] | [3,460 ft.] | [20] | [29] |
| 770 | [Rockville] | [3,700 ft.] | [25] | [36] |
| 771 | [Santa Clara] | [2,850 ft.] | [15 (1)] | [21] |
| 772 | [St. George] | [2,750 ft.] | [15 (1)] | [21] |
| 773 | [Wayne County] | | | |
| 774 | [Loa] | [7,080 ft.] | [30] | [43] |
| 775 | [Hanksville] | [4,308 ft.] | [25] | [36] |
| 776 | [Weber County] | | | |
| 777 | [North Ogden] | [4,500 ft.] | [40] | [57] |
| 778 | [Ogden] | [4,350 ft.] | [30] | [43] |

779 [NOTES]

780 [(1) The IBC requires a minimum live load - See 1607.11.2.]

781 [(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."]

| | | | | | |
|--|---------------|---|--------------------------|-------------------------------|---|
| TABLE NO. 1608.1.2(B) | | | | | |
| REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS ^{1,2} | | | | | |
| The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study. | | | | | |
| 785 | <u>County</u> | <u>City</u> | <u>Elevation</u> | <u>Ground Snow Load (psf)</u> | <u>Roof Snow Load (psf)⁶</u> |
| 786 | <u>Carbon</u> | <u>Price³</u> <u>All other county locations⁵</u> | <u>5550</u> <u>--</u> | <u>43</u> <u>--</u> | <u>30</u> <u>--</u> |
| 787 | <u>Davis</u> | <u>Fruit Heights³</u> | <u>4500 - 4850</u> | <u>57</u> | <u>40</u> |

| | | | | | |
|-----|--|--|-------------|------------|-----------|
| 788 | <u>Emery</u> | <u>Green River</u> ³ | <u>4070</u> | <u>36</u> | <u>25</u> |
| 789 | <u>Garfield</u> | <u>Panguitch</u> ³ | <u>6600</u> | <u>43</u> | <u>30</u> |
| 790 | <u>Rich</u> | <u>Woodruff</u> ³ | <u>6315</u> | <u>57</u> | <u>40</u> |
| | | <u>Laketown</u> ⁴ | <u>6000</u> | <u>57</u> | <u>40</u> |
| | | <u>Garden City</u> ⁵ | -- | -- | -- |
| | | <u>Randolph</u> ⁴ | <u>6300</u> | <u>57</u> | <u>40</u> |
| 791 | <u>San Juan</u> | <u>Monticello</u> ³ | <u>6820</u> | <u>50</u> | <u>35</u> |
| 792 | <u>Summit</u> | <u>Coalville</u> ³ | <u>5600</u> | <u>86</u> | <u>60</u> |
| | | <u>Kamas</u> ⁴ | <u>6500</u> | <u>114</u> | <u>80</u> |
| 793 | <u>Tooele</u> | <u>Tooele</u> ³ | <u>5100</u> | <u>43</u> | <u>30</u> |
| 794 | <u>Utah</u> | <u>Orem</u> ³ | <u>4650</u> | <u>43</u> | <u>30</u> |
| | | <u>Pleasant Grove</u> ⁴ | <u>5000</u> | <u>43</u> | <u>30</u> |
| | | <u>Provo</u> ⁵ | -- | -- | -- |
| 795 | <u>Wasatch</u> | <u>Heber</u> ⁵ | -- | -- | -- |
| 796 | <u>Washington</u> | <u>Leeds</u> ³ | <u>3460</u> | <u>29</u> | <u>20</u> |
| | | <u>Santa Clara</u> ³ | <u>2850</u> | <u>21</u> | <u>15</u> |
| | | <u>St. George</u> ³ | <u>2750</u> | <u>21</u> | <u>15</u> |
| | | <u>All other county locations</u> ⁵ | -- | -- | -- |
| 797 | <u>Wayne</u> | <u>Loa</u> ³ | <u>7080</u> | <u>43</u> | <u>30</u> |
| 798 | ¹ The IBC requires a minimum live load - See 1607.11.2. | | | | |
| 799 | 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. | | | | |
| 800 | ³ Values adopted form Table VII of the Utah Snow Load Study. | | | | |
| 801 | ⁴ Values based on site-specific study. Contact local Building Official for additional information. | | | | |
| 802 | ⁵ Contact local Building Official. | | | | |
| 803 | ⁶ Based on C _s =1.0, C _t =1.0 and I _s =1.0 | | | | |

804 (8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The

805 value for the thermal factor, C_t , used in calculation of P_f shall be determined from Table 7.3 in
806 ASCE 7.

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

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

819 ~~[(10) In IBC, Section 1609.1.1, a new exception 7 is added as follows: "7. The wind~~
820 ~~design procedure as found in Sections 1616 through 1624 of the 1997 Uniform Building Code~~
821 ~~may be used as an alternative wind design procedure for signs and free standing walls as listed~~
822 ~~in item 7 listed in Table 16-H of the 1997 Uniform Building Code. The Importance Factor, I,~~
823 ~~shall be determined in accordance with Table 6-1 of ASCE 7. Stress increases are only~~
824 ~~allowed as provided in Section 1605.3 of the 2009 IBC."]~~

825 [(11)] (10) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 ASCE 12.7.2
826 and 12.14.8.1 of Chapter 12 of ASCE 7 referenced in Section 1613.1, Definition of W , Item 4
827 is deleted and replaced with the following:

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

831 WHERE:

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

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

834 P_f = Design roof snow load, psf.

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

836 without including the effects of drift or sliding. The Importance Factor, I, used in calculating P_f
 837 may be considered 1.0 for use in the formula for W_s ."

838 ~~[(12)]~~ (11) A new IBC, Section ~~[1613.8]~~ 1613.5, is added as follows: "~~[1613.8]~~ 1613.5
 839 ASCE 7, Section 13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall
 840 have a sleeve or adapter through the ceiling tile to allow for free movement of at least 1 inch
 841 (25 mm) in all horizontal directions.

842 Exceptions:

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

845 Section 8. Section **15A-3-108** is amended to read:

846 **15A-3-108. Amendments to Chapters 17 through 19 of IBC.**

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

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

854 "TABLE 1807.1.6.4

855 EMPIRICAL FOUNDATION WALLS (1,7,8)

| 856 Max. Height | Top Edge Support | Min. Thickness | Vertical Steel (2) | Horizontal Steel (3) | Steel at Openings (4) | Max. Lintel Length | Min. Lintel Length |
|------------------|------------------|----------------|--------------------|----------------------|--|--------------------|---|
| 857 2'(610 mm) | None | 6" | (5) | 2- #4 Bars | 2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below | 2'(610 mm) | 2" for each foot of opening width; min. 6" |
| 858 3'(914 mm) | None | 6" | #4@32" | 3- #4 Bars | 2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below | 2'(610 mm) | 2" for each foot of opening width; min. 6" |
| 859 4'(1,219 mm) | None | 6" | #4@32" | 4- #4 Bars | 2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below | 3'(914 mm) | 2" for each foot of opening width; min. 6" |

| | | | | | | | | |
|-----|--|-----------------------------|----|--------|------------|--|--------------|--|
| 860 | 6'(1,829 mm) | Floor or roof Diaphragm (6) | 8" | #4@24" | 5- #4 Bars | 2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below | 6'(1,829 mm) | 2" for each foot of opening width; min. 6" |
| 861 | 8'(2,438 mm) | Floor or roof Diaphragm (6) | 8" | #4@24" | 6- #4 Bars | 2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below | 6'(1,829 mm) | 2" for each foot of opening width; min. 6" |
| 862 | 9'(2,743 mm) | Floor or roof Diaphragm (6) | 8" | #4@16" | 7- #4 Bars | 2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below | 6'(1,829 mm) | 2" for each foot of opening width; min. 6" |
| 863 | Over 9'(2,743 mm), Engineering required for each column | | | | | | | |
| 864 | Footnotes: | | | | | | | |
| 865 | (1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel. | | | | | | | |
| 866 | (2) To be placed in the center of the wall, and extended from the footing to within three inches (76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement shall be provided in the footing, extending 24 inches (610 mm) into the foundation wall. | | | | | | | |
| 867 | (3) One bar shall be located in the top four inches (102 mm), one bar in the bottom four inches (102 mm) and the other bars equally spaced between. Such bar placement satisfies the requirements of Section 1805.9. Corner reinforcing shall be provided so as to lap 24 inches (610 mm). | | | | | | | |
| 868 | (4) Bars shall be placed within two inches (51 mm) of the openings and extend 24 inches (610 mm) beyond the edge of the opening; vertical bars may terminate three inches (76 mm) from the top of the concrete. | | | | | | | |
| 869 | (5) Dowels of #4 bar at 32 inches on center shall be provided in the footing, extending 18 inches (457 mm) into the foundation wall. | | | | | | | |
| 870 | (6) Diaphragm shall conform to the requirements of Section 2308. | | | | | | | |
| 871 | (7) Footing shall be a minimum of nine inches thick by 20 inches wide. | | | | | | | |
| 872 | (8) Soil backfill shall be soil classification types GW, GP, SW, or SP, per Table 1610.1. Soil shall not be submerged or saturated in groundwater." | | | | | | | |

873 (3) In IBC, Section [~~1904.3~~] 1904.2, a new exception 1 is added as follows and the
 874 current exception is modified to be number 2.

875 Exceptions:

876 "1. In ACI Table 4.3.1, for Exposure Class F1, change Maximum w/cm from 0.45 to
877 0.5 and Minimum f'c from 4,500 psi to 3,000 psi."

878 [~~(4) IBC, Section 1904.4.1 is deleted and replaced with the following:~~]

879 [~~"1904.4.1 Air Entrainment. Concrete that extends above grade and is exposed to
880 freezing and thawing while moist shall be air entrained in accordance with ACI 318, Section
881 4.4.1."]~~

882 (4) A new IBC, Section 1905.1.11 is added as follows: "1905.1.11 ACI 318, Table
883 4.2.1. Modify ACI 318, Table 4.2.1 to read as follows: In the portion of the table designated as
884 "Conditions", the Exposure categories and classes are deleted and replaced with the following:
885 "F0: Concrete elements not exposed to freezing and thawing cycles to include footing and
886 foundation elements that are completely buried in soil.
887 F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be saturated
888 or exposed to deicing chemicals.
889 F2: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated,
890 but not exposed to deicing chemicals.
891 F3: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated
892 and exposed to deicing chemicals."

893 Section 9. Section **15A-3-110** is amended to read:

894 **15A-3-110. Amendments to Chapters 23 through 25 of IBC.**

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

899 (2) In IBC, Section 2308.6, a new exception is added as follows: "Exception: Where
900 foundation plates or sills are bolted or anchored to the foundation with not less than 1/2 inch
901 (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 inches (178 mm) into
902 concrete or masonry and spaced not more than 32 inches (816 mm) apart, there shall be a
903 minimum of two bolts or anchor straps per piece located not less than 4 inches (102 mm) from
904 each end of each piece. A properly sized nut and washer shall be tightened on each bolt to the
905 plate."

906 (3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other
907 materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with
908 ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE [7-05] 7, as amended in Section
909 1613.8, for installation in high seismic areas.

910 Section 10. Section **15A-3-112** is amended to read:

911 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

912 (1) In IBC[, Section 2902.1, the title for] [P] Table 2902.1 [is deleted and replaced and
913 a new footnote g is added as follows] the following changes are made:

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

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

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

918 [~~(b)~~] (d) A new footnote h is added as follows: "FOOTNOTE: [g] h. When provided,
919 in public toilet facilities there shall be an equal number of diaper changing facilities in male
920 toilet rooms and female toilet rooms."

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

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

926 Section 11. Section **15A-3-113** is amended to read:

927 **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

928 (1) [~~A new section IBC, Section 3401.6, is~~] New IBC Sections 3401.7, 3401.7.1, and
929 3401.7.2 are added as follows: "[3401.6] 3401.7 Parapet bracing, wall anchors, and other
930 appendages. [Until June 30, 2014, a building] 3401.7.1 Evaluation Requirements: Buildings
931 constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as
932 cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when [the
933 building is undergoing structural alterations, which may include structural sheathing
934 replacement of 10% or greater, or other structural repairs. Reroofing or water membrane
935 replacement may not be considered a structural alteration or repair for purposes of this section.
936 Beginning July 1, 2014, a building constructed before 1975 shall have parapet bracing, wall

937 ~~anchors, and appendages such as cornices, spires, towers, tanks, signs, statuary, etc. evaluated~~
938 ~~by a licensed engineer when the building is undergoing a total reroofing. Parapet bracing, wall~~
939 ~~anchors, and appendages required by this section shall be evaluated in accordance with] any of~~
940 the following conditions occur:

941 a. The parapet or appendages are being structurally repaired or altered, and a building permit is
942 required to undertake the modification; or

943 b. The building is undergoing reroofing of 75% or more of the roof area within a 12 month
944 period.

945 When performing the required evaluation, the following procedures may be utilized:

946 a. 75% of the seismic forces as specified in Section 1613[~~When~~]; or

947 b. when allowed by the local building official, alternate methods of equivalent strength as
948 referenced in an approved code under Utah Code, Subsection 15A-1-204(6)(a)[~~will be~~
949 considered when accompanied by engineer-sealed drawings, details, and calculations. When
950 found to be deficient because of design or deteriorated condition,].

951 3401.7.2 Implementation Requirements. When the evaluation required under 3401.7.1 finds
952 deficiencies, the engineer's recommendations to anchor, brace, upgrade, reinforce, or remove
953 the deficient feature shall be implemented.

954 Exceptions:

955 1. Group R-3 and U occupancies.

956 2. When the engineering evaluation required in this Subsection (1) is required based solely on
957 reroofing, the building owner is not required to implement the engineer's recommendations.

958 ~~[2:]~~ 3. Unreinforced masonry parapets need not be braced according to the above stated
959 provisions provided that the maximum height of an unreinforced masonry parapet above the
960 level of the diaphragm tension anchors or above the parapet braces shall not exceed one and
961 one-half times the thickness of the parapet wall. The parapet height may be a maximum of two
962 and one-half times its thickness in other than Seismic Design Categories D, E, or F."

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

968 Exceptions:

969 1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall not
970 be required to be met where it can be shown that the level of performance and seismic safety is
971 equivalent to that of a new structure. ~~[Such]~~ A demonstration of equivalence analysis shall
972 consider the regularity, overstrength, redundancy, and ductility of the structure ~~[within the~~
973 ~~context of the existing and retrofit (if any) detailing providing]~~. Alternatively, the building
974 official may allow the structure to be upgraded in accordance with referenced sections as found
975 in an approved code under Utah Code, Subsection 15A-1-204(6)(a).

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

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

982 ~~[(3) In IBC, Section 3411.1, the exception is deleted and replaced with the following:~~
983 ~~"Exception: Type B dwelling or sleeping units required by Section 1107 of this code are not~~
984 ~~required to be provided in existing buildings and facilities unless being altered or undergoing a~~
985 ~~change of occupancy classification."]~~

986 ~~[(4) In IBC, Chapter 35, the referenced standard ACI 318-08 is modified to change~~
987 ~~Table 4.2.1 of ACI 318-08 as follows: In the portion of Table 4.2.1 designated as "Conditions",~~
988 ~~the Exposure categories and classes are deleted and replaced with the following:]~~

989 ~~["F0: Concrete elements not exposed to freezing and thawing cycles to include footing~~
990 ~~and foundation elements that are completely buried in soil.]~~

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

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

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

997 ~~[(5)]~~ (3) In IBC, Chapter 35, the referenced standard ~~[ICC/ANSI A117.1-03]~~
998 ICCA117.1-09, Section 606.2, Exception 1 is modified to include the following sentence at the

999 end of the exception:

1000 "The minimum clear floor space shall be centered on the sink assembly."

1001 [~~(6) The following referenced standard is added under NFPA in IBC, Chapter 35:~~]

| | | | |
|------|-----------|---|-------------------------------------|
| 1002 | ["Number] | [Title] | [Referenced in code section number] |
| 1003 | [720-09] | [Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment] | [907.9"] |

1004 [~~(7)~~ (4) The following referenced standard is added under UL in IBC, Chapter 35:

| | | | |
|------|-----------|---|-----------------------------------|
| 1005 | "Number | Title | Referenced in code section number |
| 1006 | 2034-2008 | Standard of Single- and Multiple-station Carbon Monoxide Alarms | 907.9" |

1007 [~~(8) In IBC, Chapter 35, NFPA referenced standard 10-07 is deleted and replaced with~~
 1008 ~~the following:~~]

| | | | |
|------|-----------|-------------------------------|--|
| 1009 | ["Number] | [Title] | [Referenced in code section number] |
| 1010 | [10-10] | [Portable Fire Extinguishers] | [906.2, 906.3.2, 906.3.4, Table 906.3(1), Table 906.3(2)"] |

1011 [~~(9) In IBC, Chapter 35, NFPA referenced standard 11-05 is deleted and replaced with~~
 1012 ~~the following:~~]

| | | | |
|------|-----------|----------------------|-------------------------------------|
| 1013 | ["Number] | [Title] | [Referenced in code section number] |
| 1014 | [11-10] | [Low Expansion Foam] | [904.7"] |

1015 [~~(10) In IBC, Chapter 35, NFPA referenced standard 12-05 is deleted and replaced with~~
 1016 ~~the following:~~]

| | | | |
|------|-----------|---------|-------------------------------------|
| 1017 | ["Number] | [Title] | [Referenced in code section number] |
|------|-----------|---------|-------------------------------------|

| | | | |
|------|---------|--|------------------|
| 1018 | [12-08] | [Carbon Dioxide Extinguishing Systems] | [904.8, 904.11"] |
|------|---------|--|------------------|

1019 [~~(11) In IBC, Chapter 35, NFPA referenced standard 12A-04 is deleted and replaced~~
 1020 ~~with the following:~~]

| | | | |
|------|-----------|---|-------------------------------------|
| 1021 | ["Number] | [Title] | [Referenced in code section number] |
| 1022 | [12A-09] | [Halon 1301 Fire Extinguishing Systems] | [904.9"] |

1023 [~~(12) In IBC, Chapter 35, NFPA referenced standard 13-07 is deleted and replaced with~~
 1024 ~~the following:~~]

| | | | |
|------|-----------|-------------------------------------|---|
| 1025 | ["Number] | [Title] | [Referenced in code section number] |
| 1026 | [13-10] | [Installation of Sprinkler Systems] | [708.2, 903.3.1.1, 903.3.2, 903.3.5.1.1, 903.3.5.3, 904.11, 905.3.4, 907.6.3, 1613.3"]] |

1027 [~~(13) In IBC, Chapter 35, NFPA referenced standard 13D-07 is deleted and replaced~~
 1028 ~~with the following:~~]

| | | | |
|------|-----------|---|-------------------------------------|
| 1029 | ["Number] | [Title] | [Referenced in code section number] |
| 1030 | [13D-10] | [Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes] | [903.3.1.3, 903.3.5.1.1"]] |

1031 [~~(14) In IBC, Chapter 35, NFPA referenced standard 13R-07 is deleted and replaced~~
 1032 ~~with the following:~~]

| | | | |
|------|-----------|---|--|
| 1033 | ["Number] | [Title] | [Referenced in code section number] |
| 1034 | [13R-10] | [Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height] | [903.3.1.2, 903.3.5.1.1, 903.3.5.1.2, 903.4"]] |

1035 ~~[(15) In IBC, Chapter 35, NFPA referenced standard 14-07 is deleted and replaced with~~
 1036 ~~the following:]~~

| | | | |
|------|-----------|---|-------------------------------------|
| 1037 | ["Number] | [Title] | [Referenced in code section number] |
| 1038 | [14-10] | [Installation of Standpipe and Hose System] | [905.2, 905.3.4, 905.6.2, 905.8"] |

1039 ~~[(16) In IBC, Chapter 35, NFPA referenced standard 17-02 is deleted and replaced with~~
 1040 ~~the following:]~~

| | | | |
|------|-----------|--------------------------------------|-------------------------------------|
| 1041 | ["Number] | [Title] | [Referenced in code section number] |
| 1042 | [17-09] | [Dry chemical Extinguishing Systems] | [904.5, 904.11"] |

1043 ~~[(17) In IBC, Chapter 35, NFPA referenced standard 17A-02 is deleted and replaced~~
 1044 ~~with the following:]~~

| | | | |
|------|-----------|-------------------------------------|-------------------------------------|
| 1045 | ["Number] | [Title] | [Referenced in code section number] |
| 1046 | [17A-09] | [Wet Chemical Extinguishing System] | [904.5, 904.11"] |

1047 ~~[(18) In IBC, Chapter 35, NFPA referenced standard 20-07 is deleted and replaced with~~
 1048 ~~the following:]~~

| | | | |
|------|-----------|--|-------------------------------------|
| 1049 | ["Number] | [Title] | [Referenced in code section number] |
| 1050 | [20-10] | [Installation of Stationary Pumps for Fire Protection] | [913.1, 913.2.1, 913.5"] |

1051 ~~[(19) In IBC, Chapter 35, NFPA referenced standard 72-07 is deleted and replaced with~~
 1052 ~~the following:]~~

| | | | |
|------|-----------|---------|-------------------------------------|
| 1053 | ["Number] | [Title] | [Referenced in code section number] |
|------|-----------|---------|-------------------------------------|

1072 structure classified as a legal nonconforming rental housing use, whose egress bedroom
1073 window is smaller than required by this code, is not required to undergo a physical change to
1074 conform to this code if the change would compromise the structural integrity of the building or
1075 could not be completed in accordance with other applicable requirements of this code,
1076 including setback and window well requirements."

1077 (2) In IRC, Section 109:

1078 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant
1079 exterior wall envelope inspections. An inspection shall be made of the weather-resistant
1080 exterior wall envelope as required by Section R703.1 and flashings as required by Section
1081 R703.8 to prevent water from entering the weather-resistive barrier."

1082 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;
1083 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced
1084 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;
1085 and R109.1.7 Final inspection.

1086 (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to
1087 owner. Upon notice from the building official that work on any building or structure is being
1088 prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an
1089 unsafe and dangerous manner, such work shall be immediately stopped. The stop work order
1090 shall be in writing and shall be given to the owner of the property involved, or to the owner's
1091 agent or to the person doing the work; and shall state the conditions under which work will be
1092 permitted to resume."

1093 (4) In IRC, Section R202, the following definition is added: "CERTIFIED
1094 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to
1095 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction
1096 under Utah Code, Subsection 19-4-104(4)."

1097 (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by
1098 deleting the words at the end of the sentence "being heated or cooled by any equipment or
1099 appliance" and replacing them with the following: "enclosed within the building thermal
1100 envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following
1101 means:

1102 1. Openings directly into an adjacent conditioned space.

1103 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.

1104 3. Un-insulated duct, piping or other heat or cooling source within the space."

1105 ~~[(5)]~~ (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and
 1106 replaced with the following: "CROSS CONNECTION. Any physical connection or potential
 1107 connection or arrangement between two otherwise separate piping systems, one of which
 1108 contains potable water and the other either water of unknown or questionable safety or steam,
 1109 gas, or chemical, whereby there exists the possibility for flow from one system to the other,
 1110 with the direction of flow depending on the pressure differential between the two systems (see
 1111 "Backflow, Water Distribution")."

1112 (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the
 1113 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear
 1114 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without
 1115 objectionable odors; non-highly pigmented; and will not interfere with the operation of the
 1116 sewer treatment facility.

1117 ~~[(6)]~~ (8) In IRC, Section R202, the definition of "Potable Water" is deleted and
 1118 replaced with the following: "POTABLE WATER. Water free from impurities present in
 1119 amounts sufficient to cause disease or harmful physiological effects and conforming to the
 1120 Utah Code, Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the
 1121 regulations of the public health authority having jurisdiction."

1122 ~~[(7)]~~ (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and
 1123 Table R301.2(5b) as follows:

1124

| "TABLE NO. R301.2(5a) | | | | |
|--|-----------|----------------|----|----------------|
| STATE OF UTAH - REGIONAL SNOW LOAD FACTORS | | | | |
| | COUNTY | P _o | S | A _o |
| 1125 | | | | |
| 1126 | Beaver | 43 | 63 | 6.2 |
| 1127 | Box Elder | 43 | 63 | 5.2 |
| 1128 | Cache | 50 | 63 | 4.5 |
| 1129 | Carbon | 43 | 63 | 5.2 |
| 1130 | Daggett | 43 | 63 | 6.5 |
| 1131 | Davis | 43 | 63 | 4.5 |
| 1132 | | | | |

| | | | | |
|------|------------|----|----|-----|
| 1133 | Duchesne | 43 | 63 | 6.5 |
| 1134 | Emery | 43 | 63 | 6.0 |
| 1135 | Garfield | 43 | 63 | 6.0 |
| 1136 | Grand | 36 | 63 | 6.5 |
| 1137 | Iron | 43 | 63 | 5.8 |
| 1138 | Juab | 43 | 63 | 5.2 |
| 1139 | Kane | 36 | 63 | 5.7 |
| 1140 | Millard | 43 | 63 | 5.3 |
| 1141 | Morgan | 57 | 63 | 4.5 |
| 1142 | Piute | 43 | 63 | 6.2 |
| 1143 | Rich | 57 | 63 | 4.1 |
| 1144 | Salt Lake | 43 | 63 | 4.5 |
| 1145 | San Juan | 43 | 63 | 6.5 |
| 1146 | Sanpete | 43 | 63 | 5.2 |
| 1147 | Sevier | 43 | 63 | 6.0 |
| 1148 | Summit | 86 | 63 | 5.0 |
| 1149 | Tooele | 43 | 63 | 4.5 |
| 1150 | Uintah | 43 | 63 | 7.0 |
| 1151 | Utah | 43 | 63 | 4.5 |
| 1152 | Wasatch | 86 | 63 | 5.0 |
| 1153 | Washington | 29 | 63 | 6.0 |
| 1154 | Wayne | 36 | 63 | 6.5 |
| 1155 | Weber | 43 | 63 | 4.5 |

| | | | | |
|------|---|--|------------------------|--------------------------|
| 1156 | [TABLE NO. R301.2(5b)] | | | |
| 1157 | [RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)] | | | |
| 1158 | | | [Roof Snow Load (PSF)] | [Ground Snow Load (PSF)] |
| 1159 | [Beaver County] | | | |

| | | | | |
|------|--------------------|-------------|------|------|
| 1160 | [Beaver] | [5,920 ft.] | [43] | [62] |
| 1161 | [Box Elder County] | | | |
| 1162 | [Brigham City] | [4,300 ft.] | [30] | [43] |
| 1163 | [Tremonton] | [4,290 ft.] | [30] | [43] |
| 1164 | [Cache County] | | | |
| 1165 | [Logan] | [4,530 ft.] | [35] | [50] |
| 1166 | [Smithfield] | [4,595 ft.] | [35] | [50] |
| 1167 | [Carbon County] | | | |
| 1168 | [Price] | [5,550 ft.] | [30] | [43] |
| 1169 | [Daggett County] | | | |
| 1170 | [Manila] | [5,377 ft.] | [30] | [43] |
| 1171 | [Davis County] | | | |
| 1172 | [Bountiful] | [4,300 ft.] | [30] | [43] |
| 1173 | [Farmington] | [4,270 ft.] | [30] | [43] |
| 1174 | [Layton] | [4,400 ft.] | [30] | [43] |
| 1175 | [Fruit Heights] | [4,500 ft.] | [40] | [57] |
| 1176 | [Duchesne County] | | | |
| 1177 | [Duchesne] | [5,510 ft.] | [30] | [43] |
| 1178 | [Roosevelt] | [5,104 ft.] | [30] | [43] |
| 1179 | [Emery County] | | | |
| 1180 | [Castle Dale] | [5,660 ft.] | [30] | [43] |
| 1181 | [Green River] | [4,070 ft.] | [25] | [36] |
| 1182 | [Garfield County] | | | |
| 1183 | [Panguitch] | [6,600 ft.] | [30] | [43] |
| 1184 | [Grand County] | | | |
| 1185 | [Moab] | [3,965 ft.] | [25] | [36] |
| 1186 | [Iron County] | | | |
| 1187 | [Cedar City] | [5,831 ft.] | [30] | [43] |

| | | | | |
|------|--------------------|-------------|------|------|
| 1188 | [Juab County] | | | |
| 1189 | [Nephi] | [5,130 ft.] | [30] | [43] |
| 1190 | [Kane County] | | | |
| 1191 | [Kanab] | [5,000 ft.] | [25] | [36] |
| 1192 | [Millard County] | | | |
| 1193 | [Fillmore] | [5,000 ft.] | [30] | [43] |
| 1194 | [Delta] | [4,623 ft.] | [30] | [43] |
| 1195 | [Morgan County] | | | |
| 1196 | [Morgan] | [5,064 ft.] | [40] | [57] |
| 1197 | [Piute County] | | | |
| 1198 | [Piute] | [5,996 ft.] | [30] | [43] |
| 1199 | [Rich County] | | | |
| 1200 | [Woodruff] | [6,315 ft.] | [40] | [57] |
| 1201 | [Salt Lake County] | | | |
| 1202 | [Murray] | [4,325 ft.] | [30] | [43] |
| 1203 | [Salt Lake City] | [4,300 ft.] | [30] | [43] |
| 1204 | [Sandy] | [4,500 ft.] | [30] | [43] |
| 1205 | [West Jordan] | [4,375 ft.] | [30] | [43] |
| 1206 | [West Valley] | [4,250 ft.] | [30] | [43] |
| 1207 | [San Juan County] | | | |
| 1208 | [Blanding] | [6,200 ft.] | [30] | [43] |
| 1209 | [Monticello] | [6,820 ft.] | [35] | [50] |
| 1210 | [Sanpete County] | | | |
| 1211 | [Fairview] | [6,750 ft.] | [35] | [50] |
| 1212 | [Mt. Pleasant] | [5,900 ft.] | [30] | [43] |
| 1213 | [Manti] | [5,740 ft.] | [30] | [43] |
| 1214 | [Ephraim] | [5,540 ft.] | [30] | [43] |
| 1215 | [Gunnison] | [5,145 ft.] | [30] | [43] |

| | | | | |
|------|---------------------|-------------|----------|-------|
| 1216 | [Sevier County] | | | |
| 1217 | [Salina] | [5,130 ft.] | [30] | [43] |
| 1218 | [Richfield] | [5,270 ft.] | [30] | [43] |
| 1219 | [Summit County] | | | |
| 1220 | [Coalville] | [5,600 ft.] | [60] | [86] |
| 1221 | [Kamas] | [6,500 ft.] | [70] | [100] |
| 1222 | [Park City] | [6,800 ft.] | [100] | [142] |
| 1223 | [Park City] | [8,400 ft.] | [162] | [231] |
| 1224 | [Summit Park] | [7,200 ft.] | [90] | [128] |
| 1225 | [Tooele County] | | | |
| 1226 | [Tooele] | [5,100 ft.] | [30] | [43] |
| 1227 | [Uintah County] | | | |
| 1228 | [Vernal] | [5,280 ft.] | [30] | [43] |
| 1229 | [Utah County] | | | |
| 1230 | [American Fork] | [4,500 ft.] | [30] | [43] |
| 1231 | [Orem] | [4,650 ft.] | [30] | [43] |
| 1232 | [Pleasant Grove] | [5,000 ft.] | [30] | [43] |
| 1233 | [Provo] | [5,000 ft.] | [30] | [43] |
| 1234 | [Spanish Fork] | [4,720 ft.] | [30] | [43] |
| 1235 | [Wasatch County] | | | |
| 1236 | [Heber] | [5,630 ft.] | [60] | [86] |
| 1237 | [Washington County] | | | |
| 1238 | [Central] | [5,209 ft.] | [25] | [36] |
| 1239 | [Dameron] | [4,550 ft.] | [25] | [36] |
| 1240 | [Leeds] | [3,460 ft.] | [20] | [29] |
| 1241 | [Rockville] | [3,700 ft.] | [25] | [36] |
| 1242 | [Santa Clara] | [2,850 ft.] | [15-(1)] | [21] |
| 1243 | [St. George] | [2,750 ft.] | [15-(1)] | [21] |

| | | | | |
|------|--|-------------|------|------|
| 1244 | [Wayne County] | | | |
| 1245 | [Loa] | [7,080 ft.] | [30] | [43] |
| 1246 | [Hanksville] | [4,308 ft.] | [25] | [36] |
| 1247 | [Weber County] | | | |
| 1248 | [North Ogden] | [4,500 ft.] | [40] | [57] |
| 1249 | [Ogden] | [4,350 ft.] | [30] | [43] |
| 1250 | [NOTES] | | | |
| 1251 | [(1) The IRC requires a minimum live load - See R301.6.] | | | |
| 1252 | [(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."] | | | |

| | | | | | |
|------|---|---|--------------------|-------------------------------|---|
| 1253 | <u>TABLE NO. R301.2(5b)</u> | | | | |
| 1254 | <u>REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS^{1,2}</u> | | | | |
| 1255 | <u>The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.</u> | | | | |
| 1256 | <u>County</u> | <u>City</u> | <u>Elevation</u> | <u>Ground Snow Load (psf)</u> | <u>Roof Snow Load (psf)⁶</u> |
| 1257 | <u>Carbon</u> | <u>Price³</u> | <u>5550</u> | <u>43</u> | <u>30</u> |
| | | <u>All other county locations⁵</u> | <u>--</u> | <u>--</u> | <u>--</u> |
| 1258 | <u>Davis</u> | <u>Fruit Heights³</u> | <u>4500 - 4850</u> | <u>57</u> | <u>40</u> |
| 1259 | <u>Emery</u> | <u>Green River³</u> | <u>4070</u> | <u>36</u> | <u>25</u> |
| 1260 | <u>Garfield</u> | <u>Panguitch³</u> | <u>6600</u> | <u>43</u> | <u>30</u> |
| 1261 | <u>Rich</u> | <u>Woodruff³</u> | <u>6315</u> | <u>57</u> | <u>40</u> |
| | | <u>Laketown⁴</u> | <u>6000</u> | <u>57</u> | <u>40</u> |
| | | <u>Garden City⁵</u> | <u>--</u> | <u>--</u> | <u>--</u> |
| | | <u>Randolph⁴</u> | <u>6300</u> | <u>57</u> | <u>40</u> |
| 1262 | <u>San Juan</u> | <u>Monticello³</u> | <u>6820</u> | <u>50</u> | <u>35</u> |
| 1263 | <u>Summit</u> | <u>Coalville³</u> | <u>5600</u> | <u>86</u> | <u>60</u> |
| | | <u>Kamas⁴</u> | <u>6500</u> | <u>114</u> | <u>80</u> |

| | | | | | |
|------|--|--|-------------|-----------|-----------|
| 1264 | <u>Tooele</u> | <u>Tooele</u> ³ | <u>5100</u> | <u>43</u> | <u>30</u> |
| 1265 | <u>Utah</u> | <u>Orem</u> ³ | <u>4650</u> | <u>43</u> | <u>30</u> |
| | | <u>Pleasant Grove</u> ⁴ | <u>5000</u> | <u>43</u> | <u>30</u> |
| | | <u>Provo</u> ⁵ | -- | -- | -- |
| 1266 | <u>Wasatch</u> | <u>Heber</u> ⁵ | -- | -- | -- |
| 1267 | <u>Washington</u> | <u>Leeds</u> ³ | <u>3460</u> | <u>29</u> | <u>20</u> |
| | | <u>Santa Clara</u> ³ | <u>2850</u> | <u>21</u> | <u>15</u> |
| | | <u>St. George</u> ³ | <u>2750</u> | <u>21</u> | <u>15</u> |
| | | <u>All other county locations</u> ⁵ | -- | -- | -- |
| 1268 | <u>Wayne</u> | <u>Loa</u> ³ | <u>7080</u> | <u>43</u> | <u>30</u> |
| 1269 | ¹ The IRC requires a minimum live load – See R301.6. | | | | |
| 1270 | 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. | | | | |
| 1271 | ³ Values adopted form Table VII of the Utah Snow Load Study | | | | |
| 1272 | ⁴ Values based on site-specific study. Contact local Building Official for additional information. | | | | |
| 1273 | ⁵ Contact local Building Official. | | | | |
| 1274 | ⁶ Based on $C_e=1.0$, $C_t=1.0$ and $I_s=1.0$ | | | | |

1275 [(8)] (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6
1276 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the
1277 jurisdictions indentified in that table. Otherwise, the ground snow load, P_g , to be used in the
1278 determination of design snow loads for buildings and other structures shall be determined by
1279 using the following formula: $P_g = (P_o^2 + S^2(A-A_o)^2)^{0.5}$ for A greater than A_o , and $P_g = P_o$ for A
1280 less than or equal to A_o .

1281 WHERE:

1282 P_g = Ground snow load at a given elevation (psf);

1283 P_o = Base ground snow load (psf) from Table No. R301.2(5a);

1284 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);

1285 A = Elevation above sea level at the site (ft./1,000);

1286 A_o = Base ground snow elevation from Table R301.2(5a) (ft./1,000).
1287 The building official may round the roof snow load to the nearest 5 psf. The ground snow
1288 load, P_g , may be adjusted by the building official when a licensed engineer or architect submits
1289 data substantiating the adjustments. ~~[A record of such action together with the substantiating~~
1290 ~~data shall be provided to the division for a permanent record.~~
1291 ~~The building official may also directly adopt roof snow loads in accordance with Table~~
1292 ~~R301.2(5b), provided the site is no more than 100 ft. higher than the listed elevation.]~~
1293 Where the minimum roof live load in accordance with Table R301.6 is greater than the design
1294 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to
1295 a load lower than the design roof snow load. Drifting need not be considered for roof snow
1296 loads less than 20 psf."

1297 ~~(9)~~ (11) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced
1298 with the following:

1299 "Exceptions:

- 1300 1. A common 2-hour fire-resistance-rated wall is permitted for townhouses if such walls do
1301 not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common
1302 wall. Electrical installation shall be installed in accordance with Chapters 34 through 43.
1303 Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.
1304 2. In buildings equipped with an automatic residential fire sprinkler system, a".

1305 ~~(10)~~ (12) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6.
1306 Townhouses separated by a common 2-hour fire-resistance-rated wall as provided in Section
1307 R302.2."

1308 (13) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced
1309 with "self-latching hardware".

1310 (14) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.

1311 ~~(11)~~ (15) IRC, Sections R311.7.4 through R311.7.4.3, are deleted and replaced with
1312 the following: "R311.7.4 Stair treads and risers. R311.7.4.1 Riser height. The maximum riser
1313 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading
1314 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not
1315 exceed the smallest by more than 3/8 inch (9.5 mm).

1316 R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread

1317 depth shall be measured horizontally between the vertical planes of the foremost projection of
1318 adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within
1319 any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder
1320 treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point
1321 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a
1322 minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the
1323 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by
1324 more than 3/8 inch (9.5 mm).

1325 R311.7.4.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater
1326 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4
1327 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection
1328 shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two
1329 stories, including the nosing at the level of floors and landings. Beveling of nosing shall not
1330 exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading
1331 edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open
1332 risers are permitted, provided that the opening between treads does not permit the passage of a
1333 4-inch diameter (102 mm) sphere.

1334 Exceptions.

1335 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

1336 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches
1337 (762 mm) or less."

1338 ~~[(12)]~~ (16) In IRC, Section ~~[R312.2]~~ R312.1.2, the words "adjacent fixed seating" are
1339 deleted.

1340 ~~(17)~~ IRC, Section R312.2, is deleted.

1341 ~~[(13)]~~ (18) IRC, ~~[Section R313;]~~ Sections R313.1 through R313.2.1, are deleted[-] and
1342 replaced with the following: "R313.1 Design and installation. When installed, automatic
1343 residential fire sprinkler systems for townhouses or one- and two-family dwellings shall be
1344 designed and installed in accordance with Section P2904."

1345 ~~[(14)]~~ IRC, Section R315.1, is deleted and replaced with the following: "R315.1 Carbon
1346 monoxide alarms. For new construction, a listed carbon monoxide alarm shall be installed on
1347 each habitable level of dwelling units within which fuel-fired appliances are installed and in

1348 dwelling units that have attached garages."]

1349 [(15) IRC, Section R315.3, is deleted and replaced with the following: "R315.3 Alarm
1350 requirements. Listed single- and multiple-station carbon monoxide alarms shall comply with
1351 UL 2034 and shall be installed in accordance with the provision of this code and NFPA 720."]

1352 (19) A new IRC, Section R315.5, is added as follows: "R315.5 Power source. Carbon
1353 monoxide alarms shall receive their primary power from the building wiring when such wiring
1354 is served from a commercial source, and when primary power is interrupted, shall receive
1355 power from a battery. Wiring shall be permanent and without a disconnecting switch other
1356 than those required for over-current protection.

1357 Exceptions:

1358 1. Carbon monoxide alarms shall be permitted to be battery operated when installed in
1359 buildings without commercial power.

1360 2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the
1361 alterations or repairs do no result in the removal of interior wall or ceiling finishes exposing the
1362 structure, unless there is an attic, crawl space or basement available which could provide access
1363 for hard wiring, without the removal of interior finishes.

1364 (20) A new IRC, Section R315.6, is added as follows: "R315.6 Interconnection.
1365 Where more than one carbon monoxide alarm is required to be installed within an individual
1366 dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in
1367 such a manner that the actuation of one alarm will activate all of the alarms in the individual
1368 unit. Physical interconnection of smoke alarms shall not be required where listed wireless
1369 alarms are installed and all alarms sound upon activation of one alarm.

1370 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required
1371 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing
1372 the structure, unless there is an attic, crawl space or basement available which could provide
1373 access for interconnection without the removal of interior finishes.

1374 [(16)] (21) In IRC, Section R403.1.6, a new Exception 4 is added as follows: "4.
1375 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be
1376 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)
1377 from each end of each plate section at interior bearing walls, interior braced wall lines, and at
1378 all exterior walls."

1379 [(17)] (22) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2
 1380 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816
 1381 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located
 1382 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,
 1383 interior braced wall lines, and at all exterior walls."

1384 [(18)] (23) In IRC, Section R404.1, a new exception is added as follows: "Exception:
 1385 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and
 1386 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and
 1387 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1388 (24) IRC, Section R501.3, is deleted.

1389 Section 13. Section 15A-3-203 is amended to read:

1390 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

1391 [~~(1) IRC, Sections R612.2 through R612.4.2, are deleted.~~]

1392 [~~(2) IRC, Chapter 11, is deleted and replaced with Chapter 11 of the 2006 International
 1393 Residential Code and Chapter 4 of the 2006 International Energy Conservation Code.~~]

1394 (1) In IRC, Section N1101.8 (R103.2), all words after the words "herein governed." are
 1395 deleted and replaced with the following: "Construction documents include all documentation
 1396 required to be submitted in order to issue a building permit."

1397 (2) In IRC, Section N1101.14 (R303.3), all wording after the first sentence is deleted.

1398 (3) In IRC, Table N1102.1.1 (402.1.1) and Table N1102.1.3 (R402.1.3), the rows for
 1399 "climate zone 3", "climate zone 5 and Marine 4", and "climate zone 6" are deleted and replaced
 1400 and a new footnote j is added as follows:

1401 "TABLE N1102.1.1 (R402.1.1)

1402 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

| CLIMATE ZONE | FENESTRATION U-FACTOR ^b | SKYLIGHT ^b U-FACTOR | GLAZED | CEILING R-VALUE | WOOD | MASS | FLOOR R-VALUE | BASEMENT ^c | SLAB ^d | CRAWL SPACE ^e |
|----------------|------------------------------------|--------------------------------|----------------------------------|-----------------|---------------------------|-----------------------------|-----------------|-----------------------|-------------------|--------------------------|
| | | | FENESTRATION SHGC ^{b,c} | | FRAME WALL R-VALUE | WALL R-VALUE ^{i,j} | | WALL R-VALUE | R-VALUE & DEPTH | WALL R-VALUE |
| 3 | 0.65 | 0.65 | 0.40 | 30 | 15 | 5 | 19 | 0 | 0 | 5/13 |
| 5 and Marine 4 | 0.35 | 0.60 | NR | 38 | 19 or 13 + 5 ^h | 13 | 30 ^g | 10/13 | 10, 2 ft | 10/13 |
| 6 | 0.35 | 0.60 | NR | 49 | 19 or 13 + 5 ^h | 15 | 30 ^g | 10/13 | 10, 4 FT | 10/13 |

1406

1407 i. Log walls complying with ICC400 and with a minimum average wall thickness of 5” or greater shall be permitted in Zones 5-8 when overall window glazing is .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met.”

1408 TABLE N1102.1.3 (R402.1.3)

1409 EQUIVALENT U-FACTORS^a

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

1414 (4) In IRC, Section N1102.2.1 (R402.2.1), the last sentence is deleted.

1415 (5) In IRC, Section N1102.2.2 (R402.2.2), the last sentence is deleted.

1416 (6) In IRC, Section N1102.3.3 (R402.3.3), the last sentence is deleted.

1417 (7) In IRC, Section N1102.3.4 (R402.3.4), the last sentence is deleted.

1418 (8) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is
 1419 deleted and replaced with the word "or".

1420 (9) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and replaced
 1421 with the following: "Where allowed by the building official, the builder may certify compliance
 1422 to components criteria for items which may not be inspected during regularly scheduled
 1423 inspections."

1424 (10) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:

1425 a. "In the first sentence, the words "in Zones 1 and 2, and 3 air changes per hour in Zone 3
 1426 through 8" are deleted.

1427 b. In the third sentence, the words "Where required by the building official," and the word
 1428 "third" are deleted.

1429 c. The following sentence is inserted after the third sentence: "The following parties shall be
 1430 approved to conduct testing: Parties certified by BPI or RESNET, or licensed contractors who
 1431 have completed training provided by Blower Door Test equipment manufacturers or other

1432 comparable training."

1433 (11) In IRC, Section N1102.4.4 (R402.4.4), the last sentence is deleted.

1434 (12) In IRC, Section N1103.2.2 (R403.2.2), the exception for total leakage testing is
1435 deleted and replaced with the following: "Exception: The total leakage test is not required for
1436 systems with air handlers and at least 85% of ducts (measured by length) located entirely
1437 within the building thermal envelope."

1438 (13) In IRC, Section N1103.2.3 (R403.2.3), the words "or plenums" are deleted.

1439 (14) In IRC, Section N1103.4.2 (R403.4.2), the sentences for "3.", "9.", and the last
1440 sentence are deleted.

1441 (15) In IRC, Section N1103.5 (R403.5), the first sentence is deleted.

1442 (16) IRC, Section N1104.1 (R404.1), and the exception are deleted and N1104.1.1
1443 (R404.1.1) becomes N1104.1 (R404.1).

1444 (17) In IRC, Table N1105.5.2(1) (R405.5.2(1)), the following changes are made under
1445 the column STANDARD REFERENCE DESIGN:

1446 a. In the row "Air exchange rate", the words "in Zones 1 and 2, and 3 air changes per
1447 hour in Zones 3 through 8" are deleted.

1448 b. In the row "Heating systems^{f, g}", the standard reference design is deleted and replaced
1449 with the following:

1450 "Fuel Type: same as proposed design

1451 Efficiencies:

1452 Electric: air source heat pump with prevailing federal minimum efficiencies

1453 Nonelectric furnaces: natural gas furnace with prevailing federal minimum efficiencies

1454 Nonelectric boilers: natural gas boiler with prevailing federal minimum efficiencies

1455 Capacity: sized in accordance with Section N1103.6"

1456 k. In the row "Cooling systems^{f, h}" the words "As proposed" are deleted and replaced with the
1457 following:

1458 "Fuel Type: Electric

1459 Efficiency: in accordance with prevailing federal minimum standards"

1460 d. In the row "Service water heating^{f, g, h, i}", the words "As proposed" are deleted and replaced
1461 with the following:

1462 "Fuel Type: same as proposed design

1463 Efficiency: in accordance with prevailing federal minimum standards

1464 Tank Temperature: 120o F"

1465 e. In the row "Thermal distribution systems" the word "none" is deleted and replaced with the
1466 following: "Thermal distribution system efficiency (DSE) of .080 shall be applied to both the
1467 heating and cooling system efficiencies."

1468 (18) In Table N1105.5.2(2) (R405.5.2(2)) the number "0.80" is inserted under "Forced
1469 air systems" for "Distribution system components located in unconditioned space".

1470 (19) In IRC, Section M1307.2, the words "In Seismic Design Categories D1 and D2"
1471 are deleted.

1472 ~~[(3)]~~ (20) IRC, Section M1411.6, is deleted.

1473 ~~[(4) In IRC, Section M1502.4.4.1, the words "25 feet (7,620 mm)" are deleted and~~
1474 ~~replaced with "35 feet (10,668 mm)";]~~

1475 Section 14. Section **15A-3-204** is amended to read:

1476 **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

1477 (1) In IRC, Table M1601.1.1(2), in the section "Round ducts and enclosed rectangular
1478 ducts", the word "enclosed" is deleted; the wording "8 inches or less" under duct size, "0.013"
1479 under minimum thickness (in.), "30" under equivalent galvanized gage no. and "0.0159" under
1480 aluminum minimum thickness (in.) is added; and the section entitled "Exposed rectangular
1481 ducts" is deleted.

1482 (2) In IRC, Section M1901.3, the word "only" is inserted between the words "labeled"
1483 and "for".

1484 (3) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.
1485 Fuel gas services shall be in an approved location and/or provided with structures designed to
1486 protect the fuel gas meter and surrounding piping from physical damage, including falling,
1487 moving, or migrating ice and snow. If an added structure is used, it must provide access for
1488 service and comply with the IBC or the IRC."

1489 Section 15. Section **15A-3-205** is amended to read:

1490 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1491 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water
1492 supply. Where a potable public water supply is not available, individual sources of potable
1493 water supply shall be utilized, provided that the source has been developed in accordance with

1494 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural
 1495 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by
 1496 the local health department having jurisdiction."

1497 (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every
 1498 building in which plumbing fixtures are installed and all premises having drainage piping shall
 1499 be connected to a public sewer where the sewer is accessible and is within 300 feet of the
 1500 property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage
 1501 disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as
 1502 administered by the Department of Environmental Quality, Division of Water Quality."

1503 (3) In IRC, Section P2801.7, [~~the word "townhouses" is~~] all words in the first sentence
 1504 up to the word "water" are deleted.

1505 (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly
 1506 testing. The premise owner or his designee shall have backflow prevention assemblies
 1507 operation tested at the time of installation, repair, and relocation and at least on an annual basis
 1508 thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be
 1509 performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject
 1510 to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker
 1511 Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector
 1512 Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and
 1513 Reduced Pressure Detector Assembly."

1514 (5) IRC, Table P2902.3, is deleted and replaced with the following:

| | | | |
|--|-----------------------|---------------|-------------------------|
| [TABLE P2902.3] | | | |
| [General Methods of Protection] | | | |
| [Assembly (applicable standard)] | [Degree of Hazard] | [Application] | [Installation Criteria] |

| | | | | |
|-------------|--|----------------------|---|--|
| <p>1518</p> | <p>[Reduced Pressure Principle Backflow Preventer] ([AWWA C511; USC-FCCCHR; ASSE 1013 CSA CNA/CSA-B64.4) and Reduced Pressure Detector Assembly (ASSE 1047; USC-FCCCHR)]</p> | <p>[High or Low]</p> | <p>[Backpressure or Backsiphonage] [1/2" - 16"]</p> | <p>[a. The bottom of each RP assembly shall be a minimum of 12 inches above the ground or floor.] [b. RP assemblies shall NOT be installed in a pit.] [c. The relief valve on each RP assembly shall not be directly connected to any waste disposal line, including sanitary sewer, storm drains, or vents.] [d. The assembly shall be installed in a horizontal position only unless listed or approved for vertical installation.]</p> |
| <p>1519</p> | <p>[Double Check Backflow Prevention Assembly (AWWA C510; USC-FCCCHR; ASSE 1015) Double Check Detector Assembly Backflow Preventer (ASSE 1048; USC-FCCCHR)]</p> | <p>[Low]</p> | <p>[Backpressure or Backsiphonage] [1/2" - 16"]</p> | <p>[a. If installed in a pit, the DC assembly shall be installed with a minimum of 12 inches of clearance between all sides of the vault including the floor and roof or ceiling with adequate room for testing and maintenance.] [b. Shall be installed in a horizontal position unless listed or approved for vertical installation.]</p> |

| | | | | |
|-------------|---|----------------------|----------------------------------|--|
| <p>1520</p> | <p>[Pressure Vacuum Breaker Assembly (ASSE 1020, USC-FCCCHR)]</p> | <p>[High or Low]</p> | <p>[Backsiphonage 1/2" - 2"]</p> | <p>[a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.]</p> <p>[b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.]</p> <p>[c. Shall not be installed below ground or in a vault or pit.]</p> <p>[d. Shall be installed in a vertical position only.]</p> |
| <p>1521</p> | <p>[Spill Resistant Vacuum Breaker (ASSE 1056, USC-FCCCHR)]</p> | <p>[High or Low]</p> | <p>[Backsiphonage 1/4" - 2"]</p> | <p>[a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.]</p> <p>[b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.]</p> <p>[c. Shall not be installed below ground or in a vault or pit.]</p> <p>[d. Shall be installed in a vertical position only.]</p> |

1522

| | | | |
|--|--|--|---|
| <p>[General Installation Criteria]</p> | | | <p>[The assembly owner, when necessary, shall provide devices or structures to facilitate testing, repair, and/or maintenance and to ensure the safety of the backflow technician.]</p> <p>[Assemblies shall not be installed more than five feet off the floor unless a permanent platform is installed.]</p> <p>[The body of the assembly shall not be closer than 12 inches to any wall, ceiling or encumbrance, and shall be accessible for testing, repair and/or maintenance.]</p> <p>[In cold climates, assemblies shall be protected from freezing by a means acceptable to the code official.]</p> <p>[Assemblies shall be maintained as an intact assembly."]</p> |
|--|--|--|---|

1523

[(6) IRC, Table 2902.3a, is added as follows:]

1524

["TABLE 2902.3a]

1525

[Specialty Backflow Devices for low hazard use only]

1526

| [Device] | [Degree of Hazard] | [Application] | [Applicable Standard] |
|-----------|--------------------|-----------------|-------------------------------------|
| [Air Gap] | [High or Low] | [Backsiphonage] | [See Table P2902.3.1 ASME A112.1.2] |

1527

| | | | | |
|------|---|--------------------------------|---|---|
| 1528 | [Antisiphon-type Water-Closet Flush Tank Ball Cock] | [Low] | [Backsiphonage] | [ASSE-1002 CSA-CAN/ CSA-B125] |
| 1529 | [Atmospheric Vacuum Breaker] | [High or Low] | [Backsiphonage] [a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.] [b. Shall not be installed where it may be subjected to continuous pressure for more than 12 consecutive hours at any time.] [c. Shall be installed a minimum of six inches above all downstream piping and the highest point of use.] [d. Shall be installed on the discharge (downstream) side of any valves.] [e. The AVB shall be installed in a vertical position only.] | [ASSE-1001 USC-FCCCHR, CSA-CAN/ CSA-B64.1.1] |
| 1530 | [Dual-check valve Backflow Preventer] | [Low] | [Backsiphonage or Backpressure 1/4" - 1"] | [ASSE-1024] |
| 1531 | [Backflow Preventer with Intermediate Atmospheric Vent] | [Low Residential Boiler] | [Backsiphonage or Backpressure 1/4" - 3/4"] | [ASSE-1012 CSA-CAN/ CSA-B64.3] |

| | | | | |
|------|---|-------|---|--|
| 1532 | [Dual check valve type Backflow Preventer for Carbonated Beverage Dispensers/Post Mix Type] | [Low] | [Backsiphonage or Backpressure 1/4" - 3/8"] | [ASSE 1022] |
| 1533 | [Hose-connection Vacuum Breaker] | [Low] | [Backsiphonage 1/2", 3/4", 1"] | [ASSE 1011 CSA CAN/ CSA-B64.2] |
| 1534 | [Vacuum Breaker Wall Hydrants, Frost-resistant, Automatic Draining Type] | [Low] | [Backsiphonage 3/4", 1"] | [ASSE 1019 CSA CAN/ CSA-B64.2.2] |
| 1535 | [Laboratory Faucet Backflow Preventer] | [Low] | [Backsiphonage] | [ASSE 1035 CSA CAN/ CSA-B64.7] |
| 1536 | [Hose Connection Backflow Preventer] | [Low] | [Backsiphonage 1/2" - 1"] | [ASSE 1052] |

1537 [Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter."]

| | | | | |
|------|---------------|-------------------------------------|--------------------------------|-----------------------------|
| 1538 | <u>DEVICE</u> | <u>DEGREE OF HAZARD^a</u> | <u>APPLICATION^b</u> | <u>APPLICABLE STANDARDS</u> |
|------|---------------|-------------------------------------|--------------------------------|-----------------------------|

1539 BACKFLOW PREVENTION ASSEMBLIES:

| | | | | |
|------|---|---------------------------|---|---|
| 1540 | <u>Double check backflow prevention assembly and double check fire protection backflow prevention assembly</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 3/8" - 16"</u> | <u>ASSE 1015,</u> <u>AWWA C510,</u> <u>CSA B64.5, CSA B64.5.1</u> |
| 1541 | <u>Double check detector fire protection backflow prevention assemblies</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 3/8" - 16"</u> | <u>ASSE 1048</u> |
| 1542 | <u>Pressure vacuum breaker assembly</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 2"</u> | <u>ASSE 1020, CSA B64.1.2</u> |
| 1543 | <u>Reduced pressure principle backflow prevention assembly and reduced pressure principle fire protection backflow assembly</u> | <u>High or low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 3/8" - 16"</u> | <u>ASSE 1013,</u> <u>AWWA C511,</u> <u>CSA B64.4, CSA B64.4.1</u> |
| 1544 | <u>Reduced pressure detector fire protection backflow prevention assemblies</u> | <u>High or low hazard</u> | <u>Backpressure or backsiphonage (Fire Sprinkler Systems)</u> | <u>ASSE 1047</u> |
| 1545 | <u>Spill-resistant vacuum breaker assembly</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 2"</u> | <u>ASSE 1056</u> |
| 1546 | <u>BACKFLOW PREVENTER PLUMBING DEVICES:</u> | | | |
| 1547 | <u>Antisiphon-type fill valves for gravity water closet flush tanks</u> | <u>High hazard</u> | <u>Backsiphonage only</u> | <u>ASSE 1002, CSA B125.3</u> |

| | | | | |
|------|---|---------------------------|--|--------------------------------------|
| 1548 | <u>Backflow preventer for carbonated beverage machines</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 1/4" – 3/8"</u> | <u>ASSE 1022</u> |
| 1549 | <u>Backflow preventer with intermediate atmospheric vents</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 1/4" – 3/8"</u> | <u>ASSE 1012, CSA B64.3</u> |
| 1550 | <u>Dual check valve type backflow preventers</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> Sizes <u>1/4"-1"</u> | <u>ASSE 1024, CSA B64.6</u> |
| 1551 | <u>Hose connection backflow preventer</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2"- 1"</u> | <u>ASSE 1052, CSA B64.2, B64.2.1</u> |
| 1552 | <u>Hose connection vacuum breaker</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2", 3/4", 1"</u> | <u>ASSE 1011, CAN/CSA B64.1.1</u> |
| 1553 | <u>Atmospheric type vacuum breaker</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 4"</u> | <u>ASSE 1001, CSA B64.1.1</u> |
| 1554 | <u>Vacuum breaker wall hydrants, frost resistant, automatic draining type</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 3/4", 1"</u> | <u>ASSE 1019, CSA B64.2.2</u> |
| 1555 | <u>OTHER MEANS or METHODS:</u> | | | |
| 1556 | <u>Air gap</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> | <u>ASME A112.1.2</u> |
| 1557 | <u>Air gap fittings for use with plumbing fixtures, appliances and appurtenances</u> | <u>High or low hazard</u> | <u>Backpressure or backsiphonage</u> | <u>ASME A112.1.3</u> |
| 1558 | <u>For SI: 1 inch = 25.4 mm</u> | | | |
| 1559 | <u>a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)</u> | | | |

1560 b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See
1561 Backsiphonage Section 202)

1561 Installation Guidelines: The above specialty devices shall be installed in accordance with
1562 their listing and the manufacturer's instructions and the specific provisions of this chapter.

1562 (6) In IRC, Section P3009.1, all words after the word "urinals" are deleted and the
1563 following sentence is added at the end: "Gray water recycling systems for subsurface landscape
1564 irrigation shall conform with UAC R317-401 Gray Water Systems."

1565 (7) A new IRC, Section P3009.1.1 is added as follows: "P3009.1.1 Recording. The
1566 existence of a gray water recycling system shall be recorded on the deed of ownership for that
1567 property. The certificate of occupancy shall not be issued until the documentation of the
1568 recording required under this section is completed by the owner."

1569 (8) In IRC, Section P3009.2, the words "and systems for subsurface landscape
1570 irrigation shall comply with Section P3009.14" are deleted.

1571 (9) IRC, Section P3009.6, is deleted and replaced with the following: P3009.6 Potable
1572 water connections. The potable water supply to any building utilizing a gray water recycling
1573 system shall be protected against backflow by a reduced pressure backflow prevention
1574 assembly installed in accordance with Section P2902.

1575 (10) In IRC, Section P3009.7, the following is added at the end of the sentence: "and
1576 other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;
1577 without objectionable odor; non-highly pigmented; and will not interfere with the operation of
1578 the sewer treatment facility.

1579 (11) In IRC, Section P3009.13.3, in the second sentence, the following is added
1580 between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly
1581 or an air gap installed".

1582 (12) IRC, Section P3009.14, is deleted and replaced with the following: Section
1583 P3009.14 LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for
1584 subsurface irrigation for single family residences shall comply with the requirements of UAC
1585 R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface
1586 irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for
1587 Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste
1588 Systems.

1589 ~~[(7)]~~ (13) In IRC, Section P3103.6, the following sentence is added at the end of the
 1590 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the
 1591 wall with an elbow pointing downward."

1592 ~~[(8)]~~ (14) In IRC, Section P3104.4, the following sentence is added at the end of the
 1593 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain
 1594 and floor sink installations when installed below grade in accordance with Chapter 30, and
 1595 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

1596 Section 16. Section **15A-3-206** is amended to read:

1597 **15A-3-206. Amendments to Chapters 36 and 44 of IRC.**

1598 (1) In IRC, Section ~~[E3902.11]~~ E3902.12, the following words are deleted: "family
 1599 rooms, dining rooms, living rooms, parlors, libraries, dens, sunrooms, recreation rooms,
 1600 closets, hallways, and similar rooms or areas".

1601 "Exception: This section does not apply for a simple move or an extension of a branch circuit
 1602 or an outlet which does not significantly increase the existing electrical load. This exception
 1603 does not include changes involving remodeling or additions to a residence."

1604 (2) IRC, Chapter 44, is amended by adding the following reference standard:

| "Standard reference number | Title | Referenced in code section number |
|---|--|-----------------------------------|
| USC-FCCCHR [9 th] <u>10th</u> Edition Manual of Cross Connection Control | Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531 | Table P2902.3" |

1607 ~~[(3) In IRC, Chapter 44, the following standard is added under NFPA as follows:]~~

| ["Standard reference number"] | [Title] | [Referenced in code section number] |
|-------------------------------|---|-------------------------------------|
| [720-09] | [Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment] | [R315.3"] |

1610 ~~[(4) IRC, Appendix O, Gray Water Recycling Systems, is deleted and replaced with~~
 1611 ~~Appendix C of the International Plumbing Code as amended by the State Construction Code.]~~

1612 Section 17. Section **15A-3-302** is amended to read:

1613 **Part 3. Statewide Amendments to IPC**

1614 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

1615 (1) A new IPC, Section 101.2, is added as follows: "For clarification, the International
1616 Private Sewage Disposal Code is not part of the plumbing code even though it is in the same
1617 printed volume."

1618 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is
1619 deleted.

1620 (3) In IPC, Section 202, the following definition is added: "Certified Backflow
1621 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention
1622 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection
1623 19-4-104(4)."

1624 (4) In IPC, Section 202, the following definition is added: "Contamination (High
1625 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the
1626 public health through poisoning or through the spread of disease by sewage, industrial fluids or
1627 waste."

1628 [~~(4)~~] (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and
1629 replaced with the following: "Cross Connection. Any physical connection or potential
1630 connection or arrangement between two otherwise separate piping systems, one of which
1631 contains potable water and the other either water of unknown or questionable safety or steam,
1632 gas, or chemical, whereby there exists the possibility for flow from one system to the other,
1633 with the direction of flow depending on the pressure differential between the two systems (see
1634 "Backflow")."

1635 (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A
1636 manufactured or field fabricated trap with a liquid seal of 4" or larger."

1637 (7) In IPC, Section 202, in the definition for gray water a comma is inserted after the
1638 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear
1639 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without
1640 objectionable odors; non-highly pigmented; and will not interfere with the operation of the
1641 sewer treatment facility."

1642 (8) In IPC, Section 202, the following definition is added: "High Hazard. See

1643 Contamination."

1644 (9) In IPC, Section 202, the following definition is added: "Low Hazard. See

1645 Pollution."

1646 (10) In IPC, Section 202, the following definition is added: "Pollution (Low Hazard).

1647 An impairment of the quality of the potable water to a degree that does not create a hazard to

1648 the public health but that does adversely and unreasonably affect the aesthetic qualities of such

1649 potable water for domestic use."

1650 ~~[(5)]~~ (11) In IPC, Section 202, the definition for "Potable Water" is deleted and

1651 replaced with the following: "Potable Water. Water free from impurities present in amounts

1652 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,

1653 Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the regulations of

1654 the public health authority having jurisdiction."

1655 Section 18. Section **15A-3-303** is amended to read:

1656 **15A-3-303. Amendments to Chapter 3 of IPC.**

1657 (1) In IPC, ~~[Table 303.4, the item listed as "Backflow prevention devices" is modified~~
1658 ~~as follows]~~ Section 303.4, the following exception is added:

1659 ~~[(a) in the Third-Party Certified field, after the word "Required" add "See footnote 1";]~~

1660 ~~[(b) in the Third-Party Tested field the following is added: "Required see footnote 1";~~

1661 ~~and]~~

1662 ~~[(c) a new footnote 1 is added as follows: "1.]~~

1663 "Exception: Third-party certification for backflow prevention assemblies will consist of any

1664 combination of two certifications, laboratory or field. Acceptable third party laboratory

1665 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently

1666 provides the only field testing of backflow protection assemblies. Also see

1667 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code,

1668 R309-305-6."

1669 (2) IPC, Section 304.3, Meter Boxes, is deleted.

1670 (3) IPC, Section 311.1, is deleted.

1671 ~~[(4) IPC, Sections 312.10 through 312.10.2, are deleted and replaced with the~~

1672 following: "312.10 Backflow assembly testing. The premise owner or his designee shall have

1673 backflow prevention assemblies operation tested at the time of installation, repair, and

1674 relocation and at least on an annual basis thereafter, or more frequently as required by the
1675 authority having jurisdiction. Testing shall be performed by a Certified Backflow Preventer
1676 Assembly Tester. The assemblies that are subject to this paragraph are the Spill Resistant
1677 Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow
1678 Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the Reduced
1679 Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly."]

1680 (4) In IPC, Section 312.3, the following is added at the end of the paragraph:

1681 "Where water is not available at the construction site or where freezing conditions limit
1682 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be
1683 tested with air. The following procedures shall be followed:

1684 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
1685 explode, causing serious injury or death.

1686 2. Contractor assumes all liability for injury or death to persons or damage to property or for
1687 claims for labor and/or material arising from any alleged failure of the system during testing
1688 with air or compressed gasses.

1689 3. Proper personal protective equipment, including safety eyewear and protective headgear,
1690 should be worn by all individuals in any area where an air or gas test is being conducted.

1691 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1692 5. No water supply system shall be pressurized in excess of 6 psi as measured by accurate
1693 gauges graduated to no more than three times the test pressure.

1694 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
1695 minutes.

1696 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
1697 gases should be vented, and test balls and plugs should be removed with caution."

1698 (5) In IPC, Section 312.5, the following is added at the end of the paragraph:

1699 "Where water is not available at the construction site or where freezing conditions limit
1700 the use of water on the construction site, plastic water pipes may be permitted to be tested with
1701 air. The following procedures shall be followed:

1702 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can
1703 explode, causing serious injury or death.

1704 2. Contractor assumes all liability for injury or death to persons or damage to property or for

1705 claims for labor and/or material arising from any alleged failure of the system during testing
1706 with air or compressed gasses.

1707 3. Proper personal protective equipment, including safety eyewear and protective headgear,
1708 should be worn by all individuals in any area where an air or gas test is being conducted.

1709 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1710 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80
1711 psi as measured by accurate gauges graduated to no more than three times the test pressure.

1712 6. The pressure gauge shall be monitored during the test period, which should not exceed 15
1713 minutes.

1714 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or
1715 gases should be vented, and test balls and plugs should be removed with caution."

1716 (6) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.
1717 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in
1718 accordance with Utah Administrative Code, R309-305."

1719 Section 19. Section **15A-3-304** is amended to read:

1720 **15A-3-304. Amendments to Chapter 4 of IPC.**

1721 (1) In IPC, [~~Section~~] Table 403.1, [a new footnote g is added as follows:] the following
1722 changes are made:

1723 (a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,
1724 Minimum Number of Required Plumbing Facilities^{a, h}:"

1725 (b) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

1726 (c) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

1727 (d) A new footnote h is added as follows: "FOOTNOTE: [g] h. When provided, in
1728 public toilet facilities there shall be an equal number of diaper changing facilities in male toilet
1729 rooms and female toilet rooms."

1730 (e) A new footnote i is added to the table as follows: "FOOTNOTE i: Non residential
1731 child care facilities shall comply with additional sink requirements of Utah Administrative
1732 Code R430-100-4."

1733 (2) A new IPC, Section [~~406.4~~] 406.3, is added as follows: "~~[406.4]~~ 406.3 Automatic
1734 clothes washer safe pans. Safe pans, when installed under automatic clothes washers, shall be
1735 installed in accordance with Section 504.7."

1736 (3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All
1737 public toilet rooms shall be equipped with at least one floor drain."

1738 Section 20. Section **15A-3-305** is amended to read:

1739 **15A-3-305. Amendments to Chapter 5 of IPC.**

1740 (1) IPC, Section 502.4, is deleted and replaced with the following: 502.4 Seismic
1741 supports. Appliances designed to be fixed in position shall be fastened or anchored in an
1742 approved manner. Water heaters shall be anchored or strapped to resist horizontal
1743 displacement caused by earthquake motion. Strapping shall be at points within the upper
1744 one-third and lower one-third of the appliance's vertical dimensions. At the lower point, the
1745 strapping shall maintain a minimum distance of 4 inches (102 mm) above the controls.

1746 ~~[(+)]~~ (2) In IPC, Section 504.7.2, the following is added at the end of the section:

1747 "When permitted by the code official, the pan drain may be directly connected to a soil stack,
1748 waste stack, or branch drain. The pan drain shall be individually trapped and vented as
1749 required in Section 907.1. The pan drain shall not be directly or indirectly connected to any
1750 vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044,
1751 a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1752 ~~[(2)]~~ (3) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation.

1753 A water heater pan shall be considered an emergency receptor designated to receive the
1754 discharge of water from the water heater only and shall not receive the discharge from any
1755 other fixtures, devices, or equipment."

1756 Section 21. Section **15A-3-306** is amended to read:

1757 **15A-3-306. Amendments to Chapter 6 of IPC.**

1758 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual
1759 water supply. Where a potable public water supply is not available, individual sources of
1760 potable water supply shall be utilized provided that the source has been developed in
1761 accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as administered by the
1762 Department of Natural Resources, Division of Water Rights. In addition, the quality of the
1763 water shall be approved by the local health department having jurisdiction. The source shall
1764 supply sufficient quantity of water to comply with the requirements of this chapter."

1765 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are
1766 deleted.

1767 (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated
 1768 metering faucets. Self closing or manually operated metering faucets shall provide a flow of
 1769 water for at least 15 seconds without the need to reactivate the faucet."

1770 (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water
 1771 pressure booster systems. Water pressure booster systems shall be provided as required by
 1772 Section 606.5.1 through 606.5.11."

1773 (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited
 1774 installation. In no case shall a booster pump be allowed that will lower the pressure in the
 1775 public main to less than [~~20 psi.~~] the minimum water pressure specified in Utah
 1776 Administrative Code R309-105-9."

1777 (6) In IPC, Section 608.1, the words "and pollution" are added after the word
 1778 "contamination."

1779 [~~(6)~~] (7) IPC, Table 608.1, is deleted and replaced with the following:

| | | | |
|--|-----------------------|---------------|-------------------------|
| ["TABLE 608.1] | | | |
| [General Methods of Protection] | | | |
| [Assembly (applicable standard)] | [Degree of Hazard] | [Application] | [Installation Criteria] |

| | | | | |
|-------------|--|----------------------|---|--|
| <p>1783</p> | <p>[Reduced Pressure Principle Backflow Preventer (AWWA C511, USC-FCCCHR, ASSE 1013 CSA CNA/CSA-B64.4) and Reduced Pressure Detector Assembly (ASSE 1047, USC-FCCCHR)]</p> | <p>[High or Low]</p> | <p>[Backpressure or Backsiphonage 1/2" - 16"]</p> | <p>[a. The bottom of each RP assembly shall be a minimum of 12 inches above the ground or floor.] [b. RP assemblies shall NOT be installed in a pit.] [c. The relief valve on each RP assembly shall not be directly connected to any waste disposal line, including sanitary sewer, storm drains, or vents.] [d. The assembly shall be installed in a horizontal position only unless listed or approved for vertical installation.]</p> |
| <p>1784</p> | <p>[Double Check Backflow Prevention Assembly (AWWA C510, USC-FCCCHR, ASSE 1015) Double Check Detector Assembly Backflow Preventer (ASSE 1048, USC-FCCCHR)]</p> | <p>[Low]</p> | <p>[Backpressure or Backsiphonage 1/2" - 16"]</p> | <p>[a. If installed in a pit, the DC assembly shall be installed with a minimum of 12 inches of clearance between all sides of the vault including the floor and roof or ceiling with adequate room for testing and maintenance.] [b. Shall be installed in a horizontal position unless listed or approved for vertical installation.]</p> |

| | | | | |
|-------------|---|----------------------|----------------------------------|--|
| <p>1785</p> | <p>[Pressure Vacuum Breaker Assembly (ASSE 1020; USC-FCCCHR)]</p> | <p>[High or Low]</p> | <p>[Backsiphonage 1/2" - 2"]</p> | <p>[a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.]</p> <p>[b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.]</p> <p>[c. Shall not be installed below ground or in a vault or pit.]</p> <p>[d. Shall be installed in a vertical position only.]</p> |
| <p>1786</p> | <p>[Spill Resistant Vacuum Breaker (ASSE 1056; USC-FCCCHR)]</p> | <p>[High or Low]</p> | <p>[Backsiphonage 1/4" - 2"]</p> | <p>[a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.]</p> <p>[b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.]</p> <p>[c. Shall not be installed below ground or in a vault or pit.]</p> <p>[d. Shall be installed in a vertical position only.]</p> |

1787

| | | | |
|--|--|--|--|
| <p>[General Installation Criteria]</p> | | | <p>[The assembly owner, when necessary, shall provide devices or structures to facilitate testing, repair, and/or maintenance and to ensure the safety of the backflow technician.]</p> <p>[Assemblies shall not be installed more than five feet off the floor unless a permanent platform is installed.]</p> <p>[The body of the assembly shall not be closer than 12 inches, to any wall, ceiling or encumbrance, and shall be accessible for testing, repair and/or maintenance.]</p> <p>[In cold climates, assemblies shall be protected from freezing by a means acceptable to the code official.]</p> <p>[Assemblies shall be maintained as an intact assembly."]</p> |
|--|--|--|--|

1788

[(7) IPC, Table 608.1.1, is added as follows:]

1789

["TABLE 608.1.1]

1790

[Specialty Backflow Devices for low hazard use only]

1791

| [Device] | [Degree of Hazard] | [Application] | [Applicable Standard] |
|-----------|--------------------|-----------------|------------------------------------|
| [Air Gap] | [High or Low] | [Backsiphonage] | [See Table 608.15.1 ASME A112.1.2] |

1792

| | | | | |
|------|---|--------------------------|--|---|
| 1793 | [Antisiphon-type Water Closet Flush Tank Ball Cock] | [Low] | [Backsiphonage] | [ASSE 1002 CSA CAN/ CSA-B125] |
| 1794 | [Atmospheric Vacuum Breaker] | [High or Low] | [Backsiphonage] [a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.] [b. Shall not be installed where it may be subjected to continuous pressure for more than 12 consecutive hours at any time.] [c. Shall be installed a minimum of six inches above all downstream piping and the highest point of use.] [d. Shall be installed on the discharge (downstream) side of any valves.] [e. The AVB shall be installed in a vertical position only.] | [ASSE 1001 USC-FCCCHR, CSA CAN/ CSA-B64.1.1] |
| 1795 | [Dual-check valve Backflow Preventer] | [Low] | [Backsiphonage or Backpressure 1/4" - 1"] | [ASSE 1024] |
| 1796 | [Backflow Preventer with Intermediate Atmospheric Vent] | [Low Residential Boiler] | [Backsiphonage or Backpressure 1/4" - 3/4"] | [ASSE 1012 CSA CAN/ CSA-B64.3] |

| | | | | |
|------|--|-------|---|--|
| 1797 | [Dual-check valve-type Backflow Preventer for Carbonated Beverage Dispensers/Post Mix-Type] | [Low] | [Backsiphonage or Backpressure 1/4" - 3/8"] | [ASSE 1022] |
| 1798 | [Hose-connection Vacuum Breaker] | [Low] | [Backsiphonage 1/2", 3/4", 1"] | [ASSE 1011 CSA-CAN/ CSA-B64.2] |
| 1799 | [Vacuum Breaker Wall Hydrants, Frost-resistant, Automatic Draining-Type] | [Low] | [Backsiphonage 3/4", 1"] | [ASSE 1019 CSA-CAN/ CSA-B64.2.2] |
| 1800 | [Laboratory Faucet Backflow Preventer] | [Low] | [Backsiphonage] | [ASSE 1035 CSA-CAN/ CSA-B64.7] |
| 1801 | [Hose Connection Backflow Preventer] | [Low] | [Backsiphonage 1/2" - 1"] | [ASSE 1052] |
| 1802 | [Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter."] | | | |

| | | | | |
|------|--|-------------------------------------|--------------------------------|-----------------------------|
| 1803 | <u>"TABLE 608.1</u> | | | |
| 1804 | <u>Application of Back Flow Preventers</u> | | | |
| 1805 | <u>DEVICE</u> | <u>DEGREE OF HAZARD^a</u> | <u>APPLICATION^b</u> | <u>APPLICABLE STANDARDS</u> |
| 1806 | <u>BACKFLOW PREVENTION ASSEMBLIES:</u> | | | |

| | | | | |
|------|---|---------------------------|---|---|
| 1807 | <u>Double check backflow prevention assembly and double check fire protection backflow prevention assembly</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 3/8" - 16"</u> | <u>ASSE 1015,</u> <u>AWWA C510,</u> <u>CSA B64.5, CSA B64.5.1</u> |
| 1808 | <u>Double check detector fire protection backflow prevention assemblies</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 3/8" - 16"</u> | <u>ASSE 1048</u> |
| 1809 | <u>Pressure vacuum breaker assembly</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 2"</u> | <u>ASSE 1020, CSA B64.1.2</u> |
| 1810 | <u>Reduced pressure principle backflow prevention assembly and reduced pressure principle fire protection backflow assembly</u> | <u>High or low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 3/8" - 16"</u> | <u>ASSE 1013,</u> <u>AWWA C511,</u> <u>CSA B64.4, CSA B64.4.1</u> |
| 1811 | <u>Reduced pressure detector fire protection backflow prevention assemblies</u> | <u>High or low hazard</u> | <u>Backpressure or backsiphonage (Fire Sprinkler Systems)</u> | <u>ASSE 1047</u> |
| 1812 | <u>Spill-resistant vacuum breaker assembly</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 2"</u> | <u>ASSE 1056</u> |
| 1813 | <u>BACKFLOW PREVENTER PLUMBING DEVICES:</u> | | | |
| 1814 | <u>Antisiphon-type fill valves for gravity water closet flush tanks</u> | <u>High hazard</u> | <u>Backsiphonage only</u> | <u>ASSE 1002, CSA B125.3</u> |

| | | | | |
|------|---|---------------------------|--|--------------------------------------|
| 1815 | <u>Backflow preventer for carbonated beverage machines</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 1/4" - 3/8"</u> | <u>ASSE 1022</u> |
| 1816 | <u>Backflow preventer with intermediate atmospheric vents</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> <u>Sizes 1/4" - 3/8"</u> | <u>ASSE 1012, CSA B64.3</u> |
| 1817 | <u>Dual check valve type backflow preventers</u> | <u>Low hazard</u> | <u>Backpressure or backsiphonage</u> Sizes <u>1/4"-1"</u> | <u>ASSE 1024, CSA B64.6</u> |
| 1818 | <u>Hose connection backflow preventer</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 1"</u> | <u>ASSE 1052, CSA B64.2, B64.2.1</u> |
| 1819 | <u>Hose connection vacuum breaker</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2", 3/4", 1"</u> | <u>ASSE 1011, CAN/CSA B64.1.1</u> |
| 1820 | <u>Atmospheric type vacuum breaker</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 1/2" - 4"</u> | <u>ASSE 1001, CSA B64.1.1</u> |
| 1821 | <u>Vacuum breaker wall hydrants, frost resistant, automatic draining type</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> <u>Sizes 3/4", 1"</u> | <u>ASSE 1019, CSA B64.2.2</u> |
| 1822 | <u>OTHER MEANS or METHODS:</u> | | | |
| 1823 | <u>Air gap</u> | <u>High or low hazard</u> | <u>Backsiphonage only</u> | <u>ASME A112.1.2</u> |
| 1824 | <u>Air gap fittings for use with plumbing fixtures, appliances and appurtenances</u> | <u>High or low hazard</u> | <u>Backpressure or backsiphonage</u> | <u>ASME A112.1.3</u> |
| 1825 | <u>For SI: 1 inch = 25.4 mm</u> | | | |
| 1826 | <u>a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)</u> | | | |

1827 b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See
1828 Backsiphonage Section 202)

1828 Installation Guidelines: The above specialty devices shall be installed in accordance with
1829 their listing and the manufacturer's instructions and the specific provisions of this chapter."

1829 (8) In IPC, Section 608.3, the word "and" after the word "contamination" is
1830 deleted and replaced with a coma and the words "and pollution" are added after the
1831 word "contamination" in the first sentence.

1832 (9) In IPC, Section 608.5, the words "with the potential to create a condition of either
1833 contamination or pollution or" are added after the word "substances".

1834 ~~(8)~~ (10) In IPC, Section 608.6, the following sentence is added at the end of the
1835 paragraph: "Any connection between potable water piping and sewer-connected waste shall be
1836 protected by an air gap in accordance with Section 308.13.1."

1837 ~~(9)~~ (11) IPC, Section 608.7, is deleted[-] and replaced with the following: "608.7
1838 Stop and Waste Valves installed below grade. Combination stop-and-waste valves shall be
1839 permitted to be installed underground or below grade. Freeze proof yard hydrants that drain
1840 the riser into the ground are considered to be stop-and-waste valves and shall be permitted."

1841 ~~(10)~~ (12) In IPC, Section 608.11, the following sentence is added at the end of the
1842 paragraph: "The coating and installation shall conform to NSF Standard 61 and application of
1843 the coating shall comply with the manufacturer's instructions."

1844 ~~(11)~~ (13) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3
1845 Backflow preventer with intermediate atmospheric vent. Backflow preventers with
1846 intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These
1847 devices shall be permitted to be installed on residential boilers only, without chemical
1848 treatment, where subject to continuous pressure conditions. The relief opening shall discharge
1849 by air gap and shall be prevented from being submerged."

1850 ~~(12)~~ (14) IPC, Section 608.13.4, is deleted.

1851 ~~(13)~~ (15) IPC, Section 608.13.9, is deleted[-] and replaced with the following:
1852 "608.13.9 Chemical dispenser backflow devices. Backflow devices for chemical dispensers
1853 shall comply with Section 608.16.7."

1854 ~~(14)~~ (16) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3

1855 Protection by a backflow preventer with intermediate atmospheric vent. Connections to
1856 residential boilers only, without chemical treatment, shall be protected by a backflow preventer
1857 with an intermediate atmospheric vent."

1858 ~~[(15)] (17)~~ IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4
1859 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type
1860 or pressure-type vacuum breakers. ~~[The critical level of the atmospheric vacuum breaker shall~~
1861 ~~be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device. The~~
1862 ~~critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm)~~
1863 ~~above the flood level rim of the fixture or device.]~~ Vacuum breakers shall not be installed
1864 under exhaust hoods or similar locations that will contain toxic fumes or vapors. Fill valves
1865 shall be set in accordance with Section 425.3.1. ~~[Vacuum breakers shall not be installed under~~
1866 ~~exhaust hoods or similar locations that will contain toxic fumes or vapors.]~~ Atmospheric
1867 Vacuum Breakers - The critical level of the atmospheric vacuum breaker shall be set a
1868 minimum of 6 inches (152 mm) above the flood level rim of the fixture or device.
1869 Pipe-applied vacuum breakers shall be installed not less than 6 inches (152 mm) above the
1870 flood level rim of the fixture, receptor, or device served. No valves shall be installed
1871 downstream of the atmospheric vacuum breaker. Pressure Vacuum Breaker - The critical level
1872 of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm) above the flood
1873 level of the fixture or device."

1874 ~~[(16)] (18)~~ In IPC, Section 608.15.4.2, the following is added after the first sentence:
1875 "Add-on-backflow prevention devices shall be non-removable. In climates where freezing
1876 temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow
1877 preventer shall be used."

1878 ~~[(17)] (19)~~ In IPC, Section 608.16.2, ~~[the first sentence of the paragraph]~~ is deleted and
1879 replaced as follows: "608.16.2 Connections to boilers. The potable ~~[water supply to the~~
1880 ~~residential boiler only, without chemical treatment, shall be]~~ supply to a boiler shall be
1881 protected by an air gap or a reduced pressure principle backflow preventer, complying with
1882 ASSE 1013, CSA B64.4 or AWWA C511.
1883 Exception: The potable supply to a residential boiler without chemical treatment may be
1884 equipped with a backflow preventer with an intermediate atmospheric vent complying with
1885 ASSE 1012 or CSA CAN/CSA-B64.3."

1886 ~~[(18)]~~ (20) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3
1887 Heat exchangers. Heat exchangers shall be separated from potable water by double-wall
1888 construction. An air gap open to the atmosphere shall be provided between the two walls.

1889 Exceptions:

1890 1. Single wall heat exchangers shall be permitted when all of the following conditions are met:

1891 a. It utilizes a heat transfer medium of potable water or contains only substances which are
1892 recognized as safe by the United States Food and Drug Administration (FDA);

1893 b. The pressure of the heat transfer medium is maintained less than the normal minimum
1894 operating pressure of the potable water system; and

1895 c. The equipment is permanently labeled to indicate only additives recognized as safe by the
1896 FDA shall be used.

1897 2. Steam systems that comply with paragraph 1 above.

1898 3. Approved listed electrical drinking water coolers."

1899 ~~[(19)]~~ (21) In IPC, Section 608.16.4.1, a new exception is added as follows:

1900 "Exception: All class 1 and 2 systems containing chemical additives consisting of strictly
1901 glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against
1902 backflow with a double check valve assembly. Such systems shall include written certification
1903 of the chemical additives at the time of original installation and service or maintenance."

1904 ~~[(20)]~~ (22) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7

1905 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the
1906 water supply system shall be protected against backflow in accordance with Section 608.13.1,

1907 Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8. Chemical

1908 dispensers shall connect to a separate dedicated water supply separate from any sink faucet."

1909 ~~[(21)]~~ (23) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8

1910 Portable cleaning equipment. Where the portable cleaning equipment connects to the water

1911 distribution system, the water supply system shall be protected against backflow in accordance
1912 with Section 608.13.1, Section 608.13.2 or Section 608.13.8."

1913 ~~[(22)]~~ (24) A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic

1914 and coin operated car washes. The water supply to an automatic or coin operated car wash

1915 shall be protected in accordance with Section 608.13.1 or Section 608.13.2."

1916 ~~[(23)]~~ (25) IPC, Section 608.17, is deleted~~[-]~~ and replaced with the following: "608.17

1917 Protection of individual water supplies. See Section 602.3 for requirements."

1918 Section 22. Section **15A-3-307** is amended to read:

1919 **15A-3-307. Amendments to Chapter 7 of IPC.**

1920 (1) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer
1921 required. Every building in which plumbing fixtures are installed and all premises having
1922 drainage piping shall be connected to a public sewer where the sewer is accessible and is
1923 within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an
1924 approved private sewage disposal system in accordance with Utah Administrative Code, Rule
1925 R317-4, as administered by the Department of Environmental Quality, Division of Water
1926 Quality."

1927 (2) In IPC, Section 712.3.3.1, the following words are added before the word "or":
1928 "stainless steel, cast iron, galvanized steel".

1929 Section 23. Section **15A-3-308** is amended to read:

1930 **15A-3-308. Amendments to Chapter 8 of IPC.**

1931 [~~IPC, Chapter 8, is not amended.~~]

1932 (1) In IPC, Section 802.1.8, the words "or directly connect" are added after the word
1933 "break".

1934 (2) In IPC, Section 802, a new Section 802.1.8.1 is added as follows: "802.1.8.1
1935 Gravity grease interceptor connection: Those sinks or appliances draining into a gravity grease
1936 interceptor shall discharge directly or indirectly through an air gap or air break into a floor
1937 sink."

1938 (3) In IPC, Section 802, a new Section 802.1.8.2 is added as follows: "802.1.8.2
1939 Hydromechanical grease interceptor connection. Those sinks used for washing and primary
1940 rinsing of utensils, dishes, pots, pans or service ware and draining through a hydromechanical
1941 interceptor shall be directly connected to the interceptor. The sinks shall be trapped and vented
1942 to prevent odors from the grease interceptor escaping through the sinks into the building. A
1943 flow control device furnished by the manufacturer shall be installed on the inlet side of the
1944 interceptor and in accordance with the manufacturers installation instructions. A floor sink
1945 shall be installed within five (5') feet downstream of the interceptor outlet. A dedicated branch
1946 drain shall be provided to serve the hydromechanical interceptor and the floor sink only. No
1947 connections of any kind shall be permitted between the outlet of the interceptor and the

1948 connection of the floor sink."

1949 (4) In IPC, Section 802, a new Section 802.1.9 is added as follows: "802.1.9 Sanitizing
1950 sinks. Sinks used for the sanitizing of utensils, dishes, pots, pans, or service ware shall
1951 discharge indirectly through an air gap or air break to the drainage system."

1952 Section 24. Section **15A-3-309** is amended to read:

1953 **15A-3-309. Amendments to Chapter 9 of IPC.**

1954 ~~[(1) IPC, Section 901.3, is deleted and replaced with the following: "901.3 Chemical~~
1955 ~~waste vent system. The vent system for a chemical waste system shall be independent of the~~
1956 ~~sanitary vent system and shall terminate separately through the roof to the open air or to an air~~
1957 ~~admittance valve provided at least one chemical waste vent in the system terminates separately~~
1958 ~~through the roof to the open air."]~~

1959 [(2)] (1) In IPC, Section ~~[904.1]~~ 903.1, when the number of inches is to be specified,
1960 "12 inches (304.8mm)" is inserted.

1961 [(3)] (2) In IPC, Section ~~[904.6]~~ 903.6, the following sentence is added at the end of
1962 the paragraph: "Vents extending through the wall shall terminate not less than 12 inches from
1963 the wall with an elbow pointing downward."

1964 [(4)] (3) In IPC, Section 905.4, the following sentence is added at the end of the
1965 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain
1966 [~~and~~], floor sink, and bath tub installations when installed in accordance with Sections 702.2,
1967 905.2 and 905.3 and provided with a wall clean out."

1968 [(5)] ~~In IPC, Section 917.8, a new exception is added as follows: "Exception: Air~~
1969 ~~admittance valves shall be permitted in non-neutralized special waste systems provided that~~
1970 ~~they conform to the requirements in Sections 901.3 and 702.5, are tested to ASTM F1412, and~~
1971 ~~are certified by ANSI/ASSE."]~~

1972 Section 25. Section **15A-3-310** is amended to read:

1973 **15A-3-310. Amendments to Chapter 10 of IPC.**

1974 (1) In IPC, Section 1002.4, the following is added at the end of the paragraph:
1975 "Approved Means of Maintaining Trap Seals. Approved means of maintaining trap seals
1976 include the following, but are not limited to the methods cited:

1977 (a) [~~Listed Trap Seal Primer~~] A listed trap seal primer conforming to ASSE 1018 and
1978 ASSE 1044

1979 (b) A hose bibb or bibbs within the same room
1980 (c) Drainage from an untrapped lavatory discharging to the tailpiece of those fixture
1981 traps which require priming. All fixtures shall be in the same room and on the same floor level
1982 as the trap primer

1983 (d) Barrier type floor drain trap seal protection device meeting ASSE Standard 1072

1984 (e) Deep seal p-trap".

1985 (2) In IPC, Section 1003.3.4, the following sentence is added before the last sentence:

1986 "Hydrochemical grease interceptors and automatic grease removal devices shall not indirectly
1987 discharge into a floor sink or any other indirect waste receptor, but shall directly connect to the
1988 drainage system."

1989 (3) IPC, Section 1003.3.4.2 is deleted and replaced with the following: "1003.3.4.2
1990 Rate of flow controls. Hydromechanical grease interceptors shall be equipped with devices to
1991 control the rate of water flow so that the water flow does not exceed the rated flow. The flow
1992 control device shall be vented. The vent from the flow control device shall connect to the
1993 plumbing vent system within the building or an approved and listed air admittance valve or
1994 terminate out the roof. The flow control device shall be installed in accordance with the
1995 manufacturers instructions.

1996 Section 26. Section **15A-3-313** is amended to read:

1997 **15A-3-313. Amendments to Chapter 13 of IPC.**

1998 [~~IPC, Chapter 13, is not amended.~~]

1999 (1) In IPC, Section 1301.1, all words after the word "urinals" are deleted and the
2000 following sentence is added at the end: "Gray water recycling systems for subsurface landscape
2001 irrigation shall conform with UAC R317-401 Gray Water Systems."

2002 (2) A new IPC, Section 1301.1.1 is added as follows: "1301.1.1 Recording. The
2003 existence of a gray water recycling system shall be recorded on the deed of ownership for that
2004 property. The certificate of occupancy shall not be issued until the documentation of the
2005 recording required under this section is completed by the owner."

2006 (3) In IPC, Section 1301.2, the words "and systems for subsurface landscape irrigation
2007 shall comply with Section 1303" are deleted.

2008 (4) IPC, Section 1301.6, is deleted and replaced with the following: 1301.6 Potable
2009 water connections. The potable water supply to any building utilizing a gray water recycling

2010 system shall be protected against backflow by a reduced pressure backflow prevention
 2011 assembly installed in accordance with Section 608.

2012 (5) In IPC, Section 1301.7, the following is added at the end of the sentence: "and other
 2013 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;
 2014 without objectionable odor; non-highly pigmented; and will not interfere with the operation of
 2015 the sewer treatment facility.

2016 (6) In IPC, Section 1302.3, in the second sentence, the following is added between the
 2017 words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap
 2018 installed".

2019 (7) IPC, Section 1303, is deleted and replaced with the following: Section 1303
 2020 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems
 2021 utilized for subsurface irrigation for single family residences shall comply with the
 2022 requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized
 2023 for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design
 2024 Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite
 2025 Waterwaste Systems.

2026 Section 27. Section **15A-3-314** is amended to read:

2027 **15A-3-314. Amendments to Chapter 14 of IPC.**

2028 (1) In IPC, Chapter 14, the following referenced standard is added under ASSE:

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

2031 (2) In IPC, Chapter 14, the following referenced standard is added:

| "Standard reference number | Title | Referenced in code section number |
|----------------------------|-------|-----------------------------------|
|----------------------------|-------|-----------------------------------|

| | | | |
|------|--|--|--------------|
| 2033 | USC-FCCCHR [9th] 10th Edition Manual of Cross Connection Control | Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531 | Table 608.1" |
|------|--|--|--------------|

2034 ~~[(3) IPC, Appendix C, is deleted and replaced with the following Appendix C, Gray~~
2035 ~~Water Recycling Systems, which may be adopted by local jurisdictions only as provided under~~
2036 ~~the State Construction Code: "Appendix C Gray Water Recycling Systems]~~
2037 ~~[Note: Section 301.3 of this code requires all plumbing fixtures that receive water or waste to~~
2038 ~~discharge to the sanitary drainage system of the structure. In order to allow for the utilization~~
2039 ~~of a gray water system, Section 301.3 should be revised to read as follows:]~~
2040 ~~[In jurisdictions which have adopted this Appendix C as amended as a local amendment as~~
2041 ~~provided herein, Section 301.3 of the IPC is deleted and replaced with the following:]~~
2042 ~~[301.3 Connections to drainage system. All plumbing fixtures, drains, appurtenances, and~~
2043 ~~appliances used to receive or discharge liquid wastes or sewage shall be directly connected to~~
2044 ~~the sanitary drainage system of the building or premises, in accordance with the requirements~~
2045 ~~of this code. This section shall not be construed to prevent indirect waste systems required by~~
2046 ~~Chapter 8.]~~
2047 ~~[Exception: Bathtubs, showers, lavatories, clothes washers, laundry trays, and approved clear~~
2048 ~~water wastes shall not be required to discharge to the sanitary drainage system where such~~
2049 ~~fixtures discharge to an approved gray water system for flushing of water closets and urinals or~~
2050 ~~for subsurface landscape irrigation.]~~
2051 ~~[SECTION C101 GENERAL]~~
2052 ~~[C101.1 Scope. The provisions of this appendix shall govern the materials, design,~~
2053 ~~construction, and installation of gray water systems for flushing of water closets and urinals~~
2054 ~~(see Figure 2).]~~
2055 ~~[C101.2 Recording. The existence of a gray water recycling system shall be recorded on the~~
2056 ~~deed of ownership for that property.]~~
2057 ~~[C101.3 Definition. The following term shall have the meaning shown herein:]~~
2058 ~~[GRAY WATER. Waste discharged from lavatories, bathtubs, showers, clothes washers,~~
2059 ~~laundry trays, and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable;~~

2060 non-combustible; without objectionable odors; non-highly pigmented; and will not interfere
2061 with the operation of the sewer treatment facility.]
2062 [~~C101.4 Permits. Permits shall be required in accordance with Section 106 and may also be~~
2063 ~~required by the local health department.]~~
2064 [~~C101.5 Installation. In addition to the provisions of Section C101, systems for flushing of~~
2065 ~~water closets and urinals shall comply with Section C102. Except as provided for in Appendix~~
2066 ~~C, all systems shall comply with the provisions of the International Plumbing Code.]~~
2067 [~~C101.6 Materials. Above-ground drain, waste, and vent piping for gray water systems shall~~
2068 ~~conform to one of the standards listed in Table 702.1. Gray water underground building~~
2069 ~~drainage and vent pipe shall conform to one of the standards listed in Table 702.2.]~~
2070 [~~C101.7 Tests. Drain, waste, and vent piping for gray water systems shall be tested in~~
2071 ~~accordance with Section 312.]~~
2072 [~~C101.8 Inspections. Gray water systems shall be inspected in accordance with Section 107.]~~
2073 [~~C101.9 Potable water connections. The potable water supply to any building utilizing a gray~~
2074 ~~water recycling system shall be protected against backflow by a reduced pressure principle~~
2075 ~~backflow preventer installed in accordance with this Code.]~~
2076 [~~C101.10 Waste water connections. Gray water recycling systems shall receive only the waste~~
2077 ~~discharge of bathtubs, showers, lavatories, clothes washers, or laundry trays, and other clear~~
2078 ~~water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without~~
2079 ~~objectionable odors; non-highly pigmented; and will not interfere with the operation of the~~
2080 ~~sewer treatment facility.]~~
2081 [~~C101.11 Collection reservoir. Gray water shall be collected in an approved reservoir~~
2082 ~~constructed of durable, nonabsorbent, and corrosion-resistant materials. The reservoir shall be~~
2083 ~~a closed and gas-tight vessel. Access openings shall be provided to allow inspection and~~
2084 ~~cleaning of the reservoir interior.]~~
2085 [~~C101.12 Filtration. Gray water entering the reservoir shall pass through an approved cartridge~~
2086 ~~filter having a design flow rate of less than 0.375 gallons per minute per square foot of~~
2087 ~~effective filter area, or a sand or diatomaceous earth filter designed to handle the anticipated~~
2088 ~~volume of water.]~~
2089 [~~C101.12.1 Required valve. A full-open valve shall be installed downstream of the last fixture~~
2090 ~~connection to the gray water discharge pipe before entering the required filter.]~~

2091 [~~C101.13 Overflow. The collection reservoir shall be equipped with an overflow pipe having~~
2092 ~~the same or larger diameter as the influent pipe for the gray water. The overflow pipe shall be~~
2093 ~~trapped and indirectly connected to the sanitary drainage system.]~~

2094 [~~C101.14 Drain. A drain shall be located at the lowest point of the collection reservoir and~~
2095 ~~shall be indirectly connected to the sanitary drainage system. The drain shall be the same~~
2096 ~~diameter as the overflow pipe required in Section C101.12.]~~

2097 [~~C101.15 Vent required. The reservoir shall be provided with a vent sized in accordance with~~
2098 ~~Chapter 9 and based on the diameter of the reservoir influent pipe.]~~

2099 [~~SECTION C102 SYSTEMS FOR FLUSHING WATER CLOSETS AND URINALS]~~

2100 [~~C102.1 Collection reservoir. The holding capacity of the reservoir shall be a minimum of~~
2101 ~~twice the volume of water required to meet the daily flushing requirements of the fixtures~~
2102 ~~supplied with gray water, but not less than 50 gallons (189 L). The reservoir shall be sized to~~
2103 ~~limit the retention time of gray water to a maximum of 72 hours.]~~

2104 [~~C102.2 Disinfection. Gray water shall be disinfected by an approved method that employs~~
2105 ~~one or more disinfectants such as chlorine, iodine, or ozone that is recommended for use with~~
2106 ~~the pipes, fittings, and equipment by the manufacturer of the pipe, fittings, and equipment. A~~
2107 ~~minimum of 1ppm residual free chlorine shall be maintained in the gray water recycling system~~
2108 ~~reservoir.]~~

2109 [~~C102.3 Makeup water. Potable water shall be supplied as a source of makeup water for the~~
2110 ~~gray water system. The potable water supply shall be protected against backflow by a reduced~~
2111 ~~pressure principle backflow preventer installed in accordance with this Code. There shall be a~~
2112 ~~full-open valve located on the makeup water supply line to the collection reservoir.]~~

2113 [~~C102.4 Coloring. The gray water shall be dyed blue or green with a food grade vegetable dye~~
2114 ~~before such water is supplied to the fixtures.]~~

2115 [~~C102.5 Materials. Distribution piping shall conform to one of the standards listed in Table~~
2116 ~~605.4.]~~

2117 [~~C102.6 Identification. Distribution piping and reservoirs shall be identified as containing~~
2118 ~~nonpotable water. Piping identification shall be in accordance with Section 608.8.]~~

2119 [~~SECTION C103 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS]~~

2120 [~~C103.1 Gray water recycling systems utilized for subsurface irrigation for single family~~
2121 ~~residences shall comply with the requirements of Utah Administrative Code, R317-401, Gray~~

2122 ~~Water Systems. Gray water recycling systems utilized for subsurface irrigation for other~~
2123 ~~occupancies shall comply with Utah Administrative Code, R317-3 Design Requirements for~~
2124 ~~Wastewater Collection, Treatment and Disposal Systems, and Utah Administrative Code,~~
2125 ~~R317-4, Onsite Wastewater Systems."]~~

2126 Section 28. Section **15A-3-401** is amended to read:

2127 **Part 4. Statewide Amendments to IMC**

2128 **15A-3-401. General provision.**

2129 The following are adopted as amendments to the IMC to be applicable statewide:

2130 (1) In IMC, Section 202, the definition for "CONDITIONED SPACE" is deleted and
2131 replaced with the following: "CONDITIONED SPACE. An area, room, or space enclosed
2132 within the building thermal envelope that is directly heated or cooled, or indirectly heated or
2133 cooled by any of the following means:

- 2134 1. Openings directly into an adjacent conditioned space.
2135 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
2136 3. Un-insulated duct, piping or other heat or cooling source within the space."

2137 [(+)] (2) In IMC, Section 403, a new Section 403.8 is added as follows: "Retrospective
2138 effect. Removal, alteration, or abandonment shall not be required, and continued use and
2139 maintenance shall be allowed, for a ventilation system within an existing installation that
2140 complies with the requirements of this Section 403 regardless of whether the ventilation system
2141 satisfied the minimum ventilation rate requirements of prior law."

2142 (3) In IMC, Table 603.4, in the section "Round ducts and enclosed rectangular ducts",
2143 the word "enclosed" is deleted; the wording "8 inches or less" under duct size, "0.013" under
2144 minimum thickness (in.), "30" under equivalent galvanized gage no. and "0.0159" under
2145 aluminum minimum thickness (in.) is added; and the entire section entitled "Exposed
2146 rectangular ducts" is deleted."

2147 (4) In IMC, Section 1004.2, the first sentence is deleted and replaced with the
2148 following: "Boilers and pressure vessels in Utah are regulated by the Utah Labor Commission,
2149 Division of Boiler, Elevator and Coal Mine Safety, except those located in private residences
2150 or in apartment houses of less than five family units. Boilers shall be installed in accordance
2151 with their listing and labeling, with minimum clearances as prescribed by the manufacture's
2152 installation instructions."

2153 (5) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".
 2154 ~~[(2)]~~ (6) IMC, Section 1101.10, is deleted.

2155 Section 29. Section **15A-3-501** is amended to read:

2156 **Part 5. Statewide Amendments to IFGC**

2157 **15A-3-501. General provision.**

2158 The following [is] are adopted as an amendment to the IFGC to be applicable
 2159 statewide~~[, in IFGC, Chapter 4, Section 401, General, a new section IFGC, Section 401.9, is]~~:

2160 (1) In IFGC, Section 404.9 a new Section 404.9.1, is added as follows: "[401.9]

2161 404.9.1 Meter protection. Fuel gas services shall be in an approved location and/or provided
 2162 with structures designed to protect the fuel gas meter and surrounding piping from physical
 2163 damage, including falling, moving, or migrating ice and snow. If an added structure is used, it
 2164 must still provide access for service and comply with the IBC or the IRC."

2165 (2) IFGC, Section 409.5.3, is deleted.

2166 (3) In IFGC, Section 631.2, the following sentence is inserted before the first sentence:
 2167 "Boilers and pressure vessels in Utah are regulated by the Utah Labor Commission, Division of
 2168 Boiler, Elevator and Coal Mine Safety, except those located in private residences or in
 2169 apartment houses of less than five family units."

2170 Section 30. Section **15A-3-601** is amended to read:

2171 **Part 6. Statewide Amendments to NEC**

2172 **15A-3-601. General provision.**

2173 The following are adopted as amendments to the NEC to be applicable statewide:

2174 (1) The IRC provisions are adopted as the residential electrical standards applicable to
 2175 installations applicable under the IRC. All other installations shall comply with the adopted
 2176 NEC.

2177 (2) In NEC, Section 310.15(B)(7), the second sentence is deleted and replaced with the
 2178 following: "For application of this section, the main power feeder shall be the feeder(s)
 2179 between the main disconnect and the panelboard(s)."

2180 Section 31. Section **15A-3-801** is amended to read:

2181 **Part 8. Installation and Safety Requirements for Mobile Homes**

2182 **Built Before June 15, 1976**

2183 **15A-3-801. General provision.**

2184 Mobile homes built before June 15, 1976 that are subject to relocation, building
2185 alteration, remodeling, or rehabilitation shall comply with the following:

2186 (1) Related to exits and egress windows:

2187 (a) Egress windows. The home has at least one egress window in each bedroom, or a
2188 window that meets the minimum specifications of the U.S. Department of Housing and Urban
2189 Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS)
2190 program as set forth in 24 C.F.R. Parts 3280 and 3283, MHCSS 3280.106 and 3280.404 for
2191 manufactured homes. These standards require the window to be at least 22 inches in the
2192 horizontal or vertical position in its least dimension and at least five square feet in area. The
2193 bottom of the window opening shall be no more than 36 inches above the floor, and the locks
2194 and latches and any window screen or storm window devices that need to be operated to permit
2195 exiting shall not be located more than 54 inches above the finished floor.

2196 (b) Exits. The home is required to have two exterior exit doors, located remotely from
2197 each other, as required in MHCSS 3280.105. This standard requires that single-section homes
2198 have the doors no less than 12 feet, center-to-center, from each other, and multisection home
2199 doors no less than 20 feet center-to-center from each other when measured in a straight line,
2200 regardless of the length of the path of travel between the doors. One of the required exit doors
2201 must be accessible from the doorway of each bedroom and no more than 35 feet away from any
2202 bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high clear
2203 opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each
2204 exterior door other than screen/storm doors shall have a key-operated lock that has a passage
2205 latch; locks shall not require the use of a key or special tool for operation from the inside of the
2206 home.

2207 (2) Related to flame spread:

2208 (a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or
2209 water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants
2210 and other trim materials two inches or less in width used to finish adjacent surfaces within
2211 these spaces are exempt from this provision, provided all joints are supported by framing
2212 members or materials with a flame spread rating of 25 or less. Combustible doors providing
2213 interior or exterior access to furnace and water heater spaces shall be covered with materials of
2214 limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be

2215 interrupted for louvers ventilating the space. However, the louvers shall not be of materials of
2216 greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference
2217 MHCSS 3280.203.

2218 (b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range
2219 (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or
2220 both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.
2221 Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical
2222 clearance above the cooking top of not less than 24 inches to the bottom of combustible
2223 cabinets, as required by MHCSS 3280.204(e).

2224 (3) Related to smoke detectors:

2225 (a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway
2226 or space communicating with each bedroom area between the living area and the first bedroom
2227 door, unless a door separates the living area from that bedroom area, in which case the detector
2228 shall be installed on the living-area side, as close to the door as practicable, as required by
2229 MHCSS 3280.208. Homes with bedroom areas separated by anyone or combination of
2230 common-use areas such as a kitchen, dining room, living room, or family room (but not a
2231 bathroom or utility room) shall be required to have one detector for each bedroom area. When
2232 located in the hallways, the detector shall be between the return air intake and the living areas.

2233 (b) Switches and electrical connections. Smoke detectors shall have no switches in the
2234 circuit to the detector between the over-current protection device protecting the branch circuit
2235 and the detector. The detector shall be attached to an electrical outlet box and connected by a
2236 permanent wiring method to a general electrical circuit. The detector shall not be placed on the
2237 same branch circuit or any circuit protected by a ground-fault circuit interrupter.

2238 (4) Related to solid-fuel-burning stoves/fireplaces:

2239 (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built
2240 fireplaces, and fireplace stoves may be used in manufactured homes, provided that they are
2241 listed for use in manufactured homes and installed according to their listing/manufacture's
2242 instructions and the minimum requirements of MHCSS 3280.709(g).

2243 (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with
2244 an integral door or shutters designed to close the fire chamber opening and shall include
2245 complete means for venting through the roof, a combustion air inlet, a hearth extension, and

2246 means to securely attach the unit to the manufactured home structure.

2247 (i) Chimney. A listed, factory-built chimney designed to be attached directly to the
2248 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device
2249 and spark arrester, shall be required. The chimney shall extend at least three feet above the part
2250 of the roof through which it passes and at least two feet above the highest elevation of any part
2251 of the manufactured home that is within 10 feet of the chimney.

2252 (ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be
2253 installed in accordance with the terms of listings and the manufacturer's instruction. A
2254 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to
2255 prevent material from the hearth from dropping on the area beneath the manufactured home.

2256 (iii) Hearth. The hearth extension shall be of noncombustible material that is a
2257 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches
2258 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the
2259 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.

2260 (5) Related to electrical wiring systems:

2261 (a) Testing. All electrical systems shall be tested for continuity in accordance with
2262 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to
2263 demonstrate that all equipment is connected and in working order; and given a polarity check,
2264 to determine that connections are proper.

2265 (b) 5.2 Protection. The electrical system shall be properly protected for the required
2266 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches
2267 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be
2268 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the
2269 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum
2270 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.

2271 (6) Related to replacement furnaces and water heaters:

2272 (a) Listing. Replacement furnaces or water heaters shall be listed for use in a
2273 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be
2274 listed for use with the furnace or water heater.

2275 (b) Securement and accessibility. The furnace and water heater shall be secured in
2276 place to avoid displacement. Every furnace and water heater shall be accessible for servicing,

2277 for replacement, or both as required by MHCSS 3280.709(a).

2278 (c) Installation. Furnaces and water heaters shall be installed to provide complete
2279 separation of the combustion system from the interior atmosphere of the manufactured home,
2280 as required by MHCSS.

2281 (i) Separation. The required separation may be achieved by the installation of a
2282 direct-vent system (sealed combustion system) furnace or water heater or the installation of a
2283 furnace and water heater venting and combustion systems from the interior atmosphere of the
2284 home. There shall be no doors, grills, removable access panels, or other openings into the
2285 enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,
2286 etc., shall be sealed.

2287 (ii) Water heater. The floor area in the area of the water heater shall be free from
2288 damage from moisture to ensure that the floor will support the weight of the water heater.

2289 Section 32. **Repealer.**

2290 This bill repeals:

2291 Section **15A-4-302, Amendments to IPC applicable to Salt Lake City.**

2292 Section **15A-4-304, Amendments to IPC applicable to Grand County.**

2293 Section **15A-4-305, Amendments to IPC applicable to City of Moab.**

2294 Section **15A-4-306, Amendments to IPC applicable to Murray City.**

2295 Section **15A-4-307, Amendments to IPC applicable to Salt Lake County.**

2296 Section 33. **Effective date.**

2297 This bill takes effect on July 1, 2013.