

1                                   **CONSTRUCTION CODE AMENDMENTS**

2   2013 GENERAL SESSION

3   STATE OF UTAH

4   **Chief Sponsor: Brad R. Wilson**

5   Senate Sponsor: Curtis S. Bramble

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7   **LONG TITLE**

8   **General Description:**

9           This bill modifies the State Construction Code.

10 **Highlighted Provisions:**

11       This bill:

- 12           ▶ adopts the 2012 edition of certain nationally recognized building codes;
- 13           ▶ modifies certain statewide amendments to the State Construction Code; and
- 14           ▶ repeals certain local amendments to the State Construction Code.

15 **Money Appropriated in this Bill:**

16       None

17 **Other Special Clauses:**

18       This bill takes effect on July 1, 2013.

19 **Utah Code Sections Affected:**

20 AMENDS:

21       **15A-2-103**, as last amended by Laws of Utah 2012, Chapter 76

22       **15A-2-104**, as enacted by Laws of Utah 2011, Chapter 14

23       **15A-3-102**, as enacted by Laws of Utah 2011, Chapter 14

24       **15A-3-103**, as enacted by Laws of Utah 2011, Chapter 14

25       **15A-3-104**, as enacted by Laws of Utah 2011, Chapter 14

26       **15A-3-105**, as enacted by Laws of Utah 2011, Chapter 14

27       **15A-3-107**, as enacted by Laws of Utah 2011, Chapter 14

28       **15A-3-108**, as last amended by Laws of Utah 2012, Chapter 76

29       **15A-3-110**, as enacted by Laws of Utah 2011, Chapter 14

- 30           **15A-3-112**, as enacted by Laws of Utah 2011, Chapter 14
- 31           **15A-3-113**, as last amended by Laws of Utah 2012, Chapters 76 and 219
- 32           **15A-3-202**, as last amended by Laws of Utah 2012, Chapter 62
- 33           **15A-3-204**, as enacted by Laws of Utah 2011, Chapter 14
- 34           **15A-3-205**, as enacted by Laws of Utah 2011, Chapter 14
- 35           **15A-3-206**, as enacted by Laws of Utah 2011, Chapter 14
- 36           **15A-3-302**, as enacted by Laws of Utah 2011, Chapter 14
- 37           **15A-3-303**, as enacted by Laws of Utah 2011, Chapter 14
- 38           **15A-3-304**, as enacted by Laws of Utah 2011, Chapter 14
- 39           **15A-3-305**, as enacted by Laws of Utah 2011, Chapter 14
- 40           **15A-3-306**, as enacted by Laws of Utah 2011, Chapter 14
- 41           **15A-3-307**, 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-3-311**, as enacted by Laws of Utah 2011, Chapter 14
- 45           **15A-3-313**, as enacted by Laws of Utah 2011, Chapter 14
- 46           **15A-3-314**, as enacted by Laws of Utah 2011, Chapter 14
- 47           **15A-3-401**, as enacted by Laws of Utah 2011, Chapter 14
- 48           **15A-3-501**, as enacted by Laws of Utah 2011, Chapter 14
- 49           **15A-3-601**, as last amended by Laws of Utah 2012, Chapter 76
- 50           **15A-3-801**, as enacted by Laws of Utah 2011, Chapter 14

51 REPEALS:

- 52           **15A-4-302**, as enacted by Laws of Utah 2011, Chapter 14
- 53           **15A-4-304**, as enacted by Laws of Utah 2012, Chapter 76
- 54           **15A-4-305**, as enacted by Laws of Utah 2012, Chapter 76
- 55           **15A-4-306**, as enacted by Laws of Utah 2012, Chapter 76
- 56           **15A-4-307**, as enacted by Laws of Utah 2012, Chapter 76

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

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

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

61 **Part 1. General Provisions**

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

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

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

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

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

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

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

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

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

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

85 (i) subject to Subsection 15A-2-104(1), Appendix E of the [~~2009~~] 2012 edition of the

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

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

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

96 **15A-2-104. Installation standards for manufactured housing.**

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

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

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

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

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

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

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

117 (2) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed  
118 in the state that does not meet the local snow load requirements as specified in Chapter 3, Part  
119 2, Statewide Amendments to IRC, except that the manufactured home shall have a protective  
120 structure built over the home that meets the IRC and the snow load requirements under Chapter  
121 3, Part 2, Statewide Amendments to IRC.

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

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

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

126 **15A-3-102. Amendments to Chapters 1 through 3 of IBC.**

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

128 (2) (a) In IBC, Section 110, a new section is added as follows: "110.3.5,  
129 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-resistant  
130 exterior wall envelope as required by Section 1403.2, and flashing as required by Section  
131 1405.4 to prevent water from entering the weather-resistive barrier."

132 (b) The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6,  
133 Lath or gypsum board inspection; 110.3.7, Fire- and smoke-resistant penetrations; 110.3.8,  
134 Energy efficiency inspections; 110.3.9, Other inspections; 110.3.10, Special inspections; and  
135 110.3.11, Final inspection.

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

140 (4) In IBC, Section 202, the [~~definition for "Assisted Living Facility" is deleted and~~  
141 ~~replaced with the following: "ASSISTED LIVING FACILITY. See Section 308.1.1.]~~

142 following definition is added for Ambulatory Surgical Center: "AMBULATORY SURGICAL  
143 CENTER. A building or portion of a building licensed by the Utah Department of Health  
144 where procedures are performed that may render patients incapable of self preservation where  
145 care is less than 24 hours. See Utah Administrative Code R432-13."

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

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

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

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

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

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

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

169 [~~Exception: Areas used for child day care purposes with a Residential Certificate or a Family~~

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

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

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

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

187 (14) A new IBC Section 305.2.5 is added as follows: "305.2.5 Child Care Centers.  
188 Areas used for Hourly Child Care Centers, as defined in Utah Administrative Code, R430-60,  
189 Child Care Center as defined in Utah Administrative Code, R430-100, or Out of School Time  
190 Programs, as defined in Utah Administrative Code, R430-70, may be classified as accessory  
191 occupancies."

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

195 TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah  
196 Department of Health that provides a protected living arrangement for ambulatory,  
197 non-restrained persons who are capable of achieving mobility sufficient to exit the facility

198 without the assistance of another person.

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

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

206 Semi-Independent. A person who is:

- 207 A. Physically disabled but able to direct his or her own care; or
- 208 B. Cognitively impaired or physically disabled but able to evacuate from the facility with the
- 209 physical assistance of one person.

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

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

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

221 [~~(10)~~ (16) In IBC, Section 308.3, ~~is deleted and replaced with the following:~~ "308.3  
222 Group I-2. This occupancy shall include buildings and structures used for medical, surgical,  
223 psychiatric, nursing, or custodial care on a 24-hour basis of more than three persons who are  
224 not capable of self-preservation. This group shall include, but not be limited to the following:  
225 hospitals, nursing homes (both intermediate care facilities and skilled nursing facilities), mental



226 hospitals, detoxification facilities, ambulatory surgical centers with five or more operating  
227 rooms where care is less than 24 hours, and type II assisted living facilities. Type II assisted  
228 living facilities with five or fewer persons shall be classified as a Group R-4. Type II assisted  
229 living facilities as defined in 308.1.1 with at least six and not more than sixteen residents shall  
230 be classified as a Group I-1 facility." the words "(see Section 308.2.1)" are added after the  
231 words "assisted living facilities".

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

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

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

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

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

253 [(16)] In IBC, Section 310.1, the following is added at the end of the subsection

254 designated as R-3: "Areas used for day care purposes may be located in a residential dwelling  
255 unit under all of the following conditions:]"

256 [~~1. Compliance with the Utah Administrative Code, R710-8, Day Care Rules, as enacted under  
257 the authority of the Utah Fire Prevention Board.~~]"

258 [~~2. Use is approved by the Utah Department of Health, as enacted under the authority of the  
259 Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the following  
260 categories:~~]"

261 [~~a. Utah Administrative Code, R430-50, Residential Certificate Child Care.~~]"

262 [~~b. Utah Administrative Code, R430-90, Licensed Family Child Care.~~]"

263 [~~3. Compliance with all zoning regulations of the local regulator."~~]"

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

268 [~~Group R-4 occupancies shall meet the requirements for construction as defined for Group R-3  
269 except as otherwise provided for in this code."~~]"

270 [~~(18) In IBC, Section 310.2, the definition for "Residential Care/Assisted Living  
271 Facilities" is deleted and replaced with the following: "Assisted Living Facilities, see Section  
272 308.1.1".]~~]"

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

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

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

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

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

281 (19) In IBC, Section 308.4.1, the word "five" is deleted and replaced with the word

282 "three" in both places.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

313 **15A-3-103. Amendments to Chapters 4 through 6 of IBC.**

314 (1) [Section] IBC[;] Section 403.5.5[;] is deleted.

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

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

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

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

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

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

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

335 (2) IBC Section (F)406.5.8 is deleted and replaced with the following: "(F)406.5.8  
336 Standpipe system. An open parking garage shall be equipped with an approved Class I manual  
337 standpipe system when fire department access is not provided for firefighting operations to

338 within 150 feet of all portions of the open parking garage as measured from the approved fire  
339 department vehicle access.

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

342 (3) A new IBC Section (F)406.5.8.1 is added as follows: "(F) 406.5.8.1 Installation  
343 requirements. Class I manual standpipe shall be designed and installed in accordance with  
344 Section 905 and NFPA 14. Class I manual standpipe shall be accessible throughout the  
345 parking garage such that all portions of the parking structure are protected within 150 feet of a  
346 hose connection."

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

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

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

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

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

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

360 425.2 Definitions.

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

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

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

369 425.2.4 Family Day Care: Providing care for clients listed in the following two groups:

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

373 425.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient  
374 staffing. This would also include a home that is licensed by the Department of Health as  
375 Family Child Care.

376 425.2.5 R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under the  
377 authority of the Utah Fire Prevention Board.

378 425.3. Family Day Care.

379 425.3.1 Family Day Care units shall have on each floor occupied by clients, two separate  
380 means of egress, arranged so that if one is blocked the other will be available.

381 425.3.2 Family Day Care units that are located in the basement or on the second story shall be  
382 provided with two means of egress, one of which shall discharge directly to the outside.

383 425.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five to eight  
384 clients in a home, located on the ground level or in a basement, may use an emergency escape  
385 or rescue window as allowed in IFC, Chapter 10, Section 1029.

386 425.3.3 Family Day Care units shall not be located above the second story.

387 425.3.4 In Family Day Care units, clients under the age of two shall not be located above or  
388 below the first story.

389 425.3.4.1 Clients under the age of two may be housed above or below the first story where  
390 there is at least one exit that leads directly to the outside and complies with IFC, Section 1009  
391 or Section 1010 or Section 1026.

392 425.3.5 Family Day Care units located in split entry/split level type homes in which stairs to  
393 the lower level and upper level are equal or nearly equal, may have clients housed on both

394 levels when approved by the AHJ.  
395 425.3.6 Family Day Care units shall have a portable fire extinguisher on each level occupied by  
396 clients, which shall have a classification of not less than 2A:10BC, and shall be serviced in  
397 accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.  
398 425.3.7 Family Day Care units shall have single station smoke detectors in good operating  
399 condition on each level occupied by clients. Battery operated smoke detectors shall be  
400 permitted if the facility demonstrates testing, maintenance, and battery replacement to insure  
401 continued operation of the smoke detectors.  
402 425.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap, shall  
403 have at least one window or door approved for emergency escape.  
404 425.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall include the  
405 complete evacuation from the building of all clients and staff. At least annually, in Type I  
406 Family Day Care units, the fire drill shall include the actual evacuation using the escape or  
407 rescue window, if one is used as a substitute for one of the required means of egress.  
408 425.4 Day Care Centers.  
409 425.4.1 Day Care Centers shall comply with either I-4 requirements or E requirements of the  
410 IBC, whichever is applicable for the type of Day Care Center.  
411 425.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4, Section  
412 405.  
413 425.4.3 Location at grade. Group E child day care centers shall be located at the level of exit  
414 discharge.  
415 425.4.3.1 Child day care spaces for children over the age of 24 months may be located on the  
416 second floor of buildings equipped with automatic fire protection throughout and an automatic  
417 fire alarm system.  
418 425.4.4 Egress. All Group E child day care spaces with an occupant load of more than 10 shall  
419 have a second means of egress. If the second means of egress is not an exit door leading  
420 directly to the exterior, the room shall have an emergency escape and rescue window  
421 complying with Section 1029.

422 425.4.5 All Group E Child Day Care Centers shall comply with Utah Administrative Code,  
423 R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of  
424 School Time.

425 425.5 Requirements for all Day Care

426 425.5.1 Heating equipment in spaces occupied by children shall be provided with partitions,  
427 screens, or other means to protect children from hot surfaces and open flames.

428 425.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All staff shall  
429 be trained on the fire escape plan and procedure."

430 [~~5~~] (6) In IBC, Section 504.2, a new section is added as follows: "504.2.1  
431 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities shall be  
432 allowed to be two stories of Type V-A construction when all of the following apply:

- 433 1. All secured units are located at the level of exit discharge in compliance with Section
- 434 1008.1.9.3 as amended;
- 435 2. The total combined area of both stories shall not exceed the total allowable area for a
- 436 one-story building; and
- 437 3. All other provisions that apply in Section 407 have been provided."

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

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

441 **15A-3-104. Amendments to Chapters 7 through 9 of IBC.**

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

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

447 (1) IBC, Section (F)901.8, is deleted and replaced with the following: "(F)901.8 Pump  
448 and riser room size. Fire pump and automatic sprinkler system riser rooms shall be designed  
449 with adequate space for all installed equipment necessary for the installation and to provide



450 sufficient working space around the stationary equipment. Clearances around equipment shall  
451 be in accordance with manufacturer requirements and not less than the following minimum  
452 elements:

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

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

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

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

466 901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the  
467 fire pump room of not less than 72-inches, and openings into the room shall be clear,  
468 unobstructed and large enough to allow for the removal of the largest piece of equipment, with  
469 doors swinging in the outward direction from the room and the opening providing a clear width  
470 of not less than 68-inches and a clear height of the door opening shall not be less than  
471 80-inches."

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

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

477 [~~5~~] (4) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the

478 following: "2. A Group M fire area is located more than three stories above the lowest level of  
479 fire department vehicle access."

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

484 Exceptions:

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

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

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

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

498 ~~[Exception 1: Parking garages of less than 5,000 square feet (464 m<sup>2</sup>) accessory to Group R-3~~  
499 ~~occupancies.]~~

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

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

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

506           ~~[(9) In IBC, Section (F)903.2.10.1, the last clause "where the fire area exceeds 5,000~~  
507 ~~square feet (464 m<sup>2</sup>)" is deleted.]~~

508           ~~[(10)]~~ (7) IBC, Section (F)904.11, is deleted and replaced with the following:  
509 "(F)904.11 Commercial cooking systems. The automatic fire-extinguishing system for  
510 commercial cooking systems shall be of a type recognized for protection of commercial  
511 cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems  
512 shall be tested in accordance with UL 300 and listed and labeled for the intended application.  
513 The system shall be installed in accordance with this code, its listing and the manufacturer's  
514 installation instructions.

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

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

520           (9) IBC, Section (F)907.2.3 Group E:

521           (a) The first sentence is deleted and rewritten as follows: "A manual fire alarm system  
522 that initiates the occupant notification system in accordance with Section (F)907.5 and installed  
523 in accordance with Section (F)907.6 shall be installed in Group E occupancies."

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

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

534 ~~shall be installed in accordance with the provisions of this code and NFPA 720."~~]

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

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

539 (11) In IBC, Section (F)908.7, the following new subsections are added:

540 "(F)908.7.1 Interconnection. Where more than one carbon monoxide alarm is required to be  
541 installed within Group R or I-1 occupancies, the carbon monoxide alarms shall be  
542 interconnected in such a manner that the activation of one alarm will activate all of the alarms.

543 Physical interconnection of carbon monoxide alarms shall not be required where listed wireless  
544 alarms are installed and all alarms sound upon activation of one alarm. The alarm shall be  
545 clearly audible in all bedrooms over background noise levels with all intervening doors closed.

546 (F)908.7.2 Power source. In new construction, required carbon monoxide alarms shall receive  
547 their primary power from the building wiring where such wiring is served from a commercial  
548 source and shall be equipped with a battery backup. Carbon monoxide alarms with integral  
549 strobes that are not equipped with battery backup shall be connected to an emergency electrical  
550 system. Carbon monoxide alarms shall emit a signal when the batteries are low. Wiring shall  
551 be permanent and without a disconnecting switch other than as required for overcurrent  
552 protection.

553 Exception: Carbon monoxide alarms are not required to be equipped with battery backup where  
554 they are connected to an emergency electrical system."

555 (12) IBC, Section (F)908.7.1, is renumbered to 908.7.3.

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

557 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

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

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

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

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

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

576 ~~[(3)]~~ (4) In IBC, Section ~~[1009.12]~~ 1009.15, a new exception 6 is added as follows: "6.  
577 In occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U,  
578 which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails  
579 shall be provided on at least one side of stairways consisting of four or more risers."

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

581 ~~[(5) In IBC, Section 1013.2, a new exception 5 is added as follows: "5. For~~  
582 ~~occupancies in Group R-3 and within individual dwelling units in occupancies in Group R-2,~~  
583 ~~as applicable in Section 101.2, guards shall form a protective barrier not less than 36 inches~~  
584 ~~(914 mm) in height."]~~

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

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

590           ~~[(7)]~~ (6) IBC, Section 1024, is deleted.

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

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

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

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

598 "1. The unit shall have a living room of not less than 165 square feet (15.3 m<sup>2</sup>) of floor area.  
 599 An additional 100 square feet (9.3 m<sup>2</sup>) of floor area shall be provided for each occupant of such  
 600 unit in excess of two."

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

602           **15A-3-107. Amendments to Chapter 16 of IBC.**

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

607           (2) In IBC, Section [~~1605.2.1, the formula shown as "f<sub>2</sub> = 0.2 for other roof~~  
 608 ~~configurations" is] 1605.2, in the portion of the definition for the value of f<sub>2</sub>, the words "and  
 609 0.2 for other roof configurations" are deleted and replaced with the following: "f<sub>2</sub> = 0.20 +  
 610 .025(A-5) for other configurations where roof snow load exceeds 30 psf;  
 611 f<sub>2</sub> = 0 for roof snow loads of 30 psf (1.44kN/m<sup>2</sup>) or less.~~

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

613           (3) In IBC, [~~Section~~] Sections 1605.3.1 and [~~Section~~] 1605.3.2, exception 2 in each  
 614 section is deleted and replaced with the following: "2. Flat roof snow loads of 30 pounds per  
 615 square foot (1.44 kNm<sup>2</sup>) or less need not be combined with seismic loads. Where flat roof  
 616 snow loads exceed 30 pounds per square foot (1.44 kNm<sup>2</sup>), the snow loads may be reduced in  
 617 accordance with the following in load combinations including both snow and seismic loads.

618  $W_s$  as calculated below, shall be combined with seismic loads.

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

620 Where:

621  $W_s$  = Weight of snow to be included in seismic calculations

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

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

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

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

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

638 (6) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow  
639 Loads. The snow loads specified in Table 1608.1.2(b) shall be used for the jurisdictions  
640 identified in that table. Otherwise, the ground snow load,  $P_g$ , to be used in the determination of  
641 design snow loads for buildings and other structures shall be determined by using the following  
642 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  
643  $A_o$ .

644 WHERE:

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

646  $P_o$  = Base ground snow load (psf) from Table No. 1608.1.2(a);  
 647  $S$  = Change in ground snow load with elevation (psf/100 ft.) From Table No. 1608.1.2(a);  
 648  $A$  = Elevation above sea level at the site (ft./1,000);  
 649  $A_o$  = Base ground snow elevation from Table 1608.1.2(a) (ft./1,000).  
 650 The building official may round the roof snow load to the nearest 5 psf. The ground snow  
 651 load,  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits  
 652 data substantiating the adjustments. [~~A record of such action together with the substantiating~~  
 653 ~~data shall be provided to the division for a permanent record.~~]  
 654 [~~The building official may also directly adopt roof snow loads in accordance with Table~~  
 655 ~~1608.1.2(b), provided the site is no more than 100 ft. higher than the listed elevation.]  
 656 Where the minimum roof live load in accordance with Section 1607.11 is greater than the  
 657 design roof snow load, such roof live load shall be used for design, however, it shall not be  
 658 reduced to a load lower than the design roof snow load. Drifting need not be considered for  
 659 roof snow loads less than 20 psf."~~

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

"TABLE NO. 1608.1.2(a)				
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS				
	COUNTY	$P_o$	$S$	$A_o$
	Beaver	43	63	6.2
	Box Elder	43	63	5.2
	Cache	50	63	4.5
	Carbon	43	63	5.2
	Daggett	43	63	6.5
	Davis	43	63	4.5
	Duchesne	43	63	6.5
	Emery	43	63	6.0
	Garfield	43	63	6.0



673	Grand	36	63	6.5
674	Iron	43	63	5.8
675	Juab	43	63	5.2
676	Kane	36	63	5.7
677	Millard	43	63	5.3
678	Morgan	57	63	4.5
679	Piute	43	63	6.2
680	Rich	57	63	4.1
681	Salt Lake	43	63	4.5
682	San Juan	43	63	6.5
683	Sanpete	43	63	5.2
684	Sevier	43	63	6.0
685	Summit	86	63	5.0
686	Tooele	43	63	4.5
687	Uintah	43	63	7.0
688	Utah	43	63	4.5
689	Wasatch	86	63	5.0
690	Washington	29	63	6.0
691	Wayne	36	63	6.5
692	Weber	43	63	4.5

693	[TABLE NO. 1608.1.2(b)]			
694	[RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)]			
695			[Roof Snow Load (PSF)]	[Ground Snow Load (PSF)]
696	[Beaver County]			

697	[Beaver]	[5,920 ft.]	[43]	[62]
698	[Box Elder County]			
699	[Brigham City]	[4,300 ft.]	[30]	[43]
700	[Tremonton]	[4,290 ft.]	[30]	[43]
701	[Cache County]			
702	[Logan]	[4,530 ft.]	[35]	[50]
703	[Smithfield]	[4,595 ft.]	[35]	[50]
704	[Carbon County]			
705	[Price]	[5,550 ft.]	[30]	[43]
706	[Daggett County]			
707	[Manila]	[5,377 ft.]	[30]	[43]
708	[Davis County]			
709	[Bountiful]	[4,300 ft.]	[30]	[43]
710	[Farmington]	[4,270 ft.]	[30]	[43]
711	[Layton]	[4,400 ft.]	[30]	[43]
712	[Fruit Heights]	[4,500 ft.]	[40]	[57]
713	[Duchesne County]			
714	[Duchesne]	[5,510 ft.]	[30]	[43]
715	[Roosevelt]	[5,104 ft.]	[30]	[43]
716	[Emery County]			
717	[Castledale]	[5,660 ft.]	[30]	[43]
718	[Green River]	[4,070 ft.]	[25]	[36]
719	[Garfield County]			
720	[Panguitch]	[6,600 ft.]	[30]	[43]
721	[Grand County]			
722	[Moab]	[3,965 ft.]	[25]	[36]

723	[Iron County]			
724	[Cedar City]	[5,831 ft.]	[30]	[43]
725	[Juab County]			
726	[Nephi]	[5,130 ft.]	[30]	[43]
727	[Kane County]			
728	[Kanab]	[5,000 ft.]	[25]	[36]
729	[Millard County]			
730	[Millard]	[5,000 ft.]	[30]	[43]
731	[Delta]	[4,623 ft.]	[30]	[43]
732	[Morgan County]			
733	[Morgan]	[5,064 ft.]	[40]	[57]
734	[Piute County]			
735	[Piute]	[5,996 ft.]	[30]	[43]
736	[Rich County]			
737	[Woodruff]	[6,315 ft.]	[40]	[57]
738	[Salt Lake County]			
739	[Murray]	[4,325 ft.]	[30]	[43]
740	[Salt Lake City]	[4,300 ft.]	[30]	[43]
741	[Sandy]	[4,500 ft.]	[30]	[43]
742	[West Jordan]	[4,375 ft.]	[30]	[43]
743	[West Valley]	[4,250 ft.]	[30]	[43]
744	[San Juan County]			
745	[Blanding]	[6,200 ft.]	[30]	[43]
746	[Monticello]	[6,820 ft.]	[35]	[50]
747	[Sanpete County]			
748	[Fairview]	[6,750 ft.]	[35]	[50]

749	[Mt. Pleasant]	[5,900 ft.]	[30]	[43]
750	[Manti]	[5,740 ft.]	[30]	[43]
751	[Ephraim]	[5,540 ft.]	[30]	[43]
752	[Gunnison]	[5,145 ft.]	[30]	[43]
753	[Sevier County]			
754	[Salina]	[5,130 ft.]	[30]	[43]
755	[Richfield]	[5,270 ft.]	[30]	[43]
756	[Summit County]			
757	[Coalville]	[5,600 ft.]	[60]	[86]
758	[Kamas]	[6,500 ft.]	[70]	[100]
759	[Park City]	[6,800 ft.]	[100]	[142]
760	[Park City]	[8,400 ft.]	[162]	[231]
761	[Summit Park]	[7,200 ft.]	[90]	[128]
762	[Tooele County]			
763	[Tooele]	[5,100 ft.]	[30]	[43]
764	[Uintah County]			
765	[Vernal]	[5,280 ft.]	[30]	[43]
766	[Utah County]			
767	[American Fork]	[4,500 ft.]	[30]	[43]
768	[Orem]	[4,650 ft.]	[30]	[43]
769	[Pleasant Grove]	[5,000 ft.]	[30]	[43]
770	[Provo]	[5,000 ft.]	[30]	[43]
771	[Spanish Fork]	[4,720 ft.]	[30]	[43]
772	[Wasatch County]			
773	[Heber]	[5,630 ft.]	[60]	[86]
774	[Washington County]			

775	[Central]	[5,209 ft.]	[25]	[36]
776	[Dameron]	[4,550 ft.]	[25]	[36]
777	[Leeds]	[3,460 ft.]	[20]	[29]
778	[Rockville]	[3,700 ft.]	[25]	[36]
779	[Santa Clara]	[2,850 ft.]	[15 (1)]	[21]
780	[St. George]	[2,750 ft.]	[15 (1)]	[21]
781	[Wayne County]			
782	[Loa]	[7,080 ft.]	[30]	[43]
783	[Hanksville]	[4,308 ft.]	[25]	[36]
784	[Weber County]			
785	[North Ogden]	[4,500 ft.]	[40]	[57]
786	[Ogden]	[4,350 ft.]	[30]	[43]

787 [NOTES]

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

789 [(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."]

790 TABLE NO. 1608.1.2(B)

791 REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS<sup>1,2</sup>

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

<u>County</u>	<u>City</u>	<u>Elevation</u>	<u>Ground Snow Load (psf)</u>	<u>Roof Snow Load (psf)<sup>6</sup></u>
794 <u>Carbon</u>	<u>Price<sup>3</sup></u>	<u>5550</u>	<u>43</u>	<u>30</u>
	<u>All other county locations<sup>5</sup></u>	<u>--</u>	<u>--</u>	<u>--</u>
795 <u>Davis</u>	<u>Fruit Heights<sup>3</sup></u>	<u>4500 - 4850</u>	<u>57</u>	<u>40</u>
796 <u>Emery</u>	<u>Green River<sup>3</sup></u>	<u>4070</u>	<u>36</u>	<u>25</u>

797	<u>Garfield</u>	<u>Panguitch</u> <sup>3</sup>	<u>6600</u>	<u>43</u>	<u>30</u>
798	<u>Rich</u>	<u>Woodruff</u> <sup>3</sup>	<u>6315</u>	<u>57</u>	<u>40</u>
		<u>Laketown</u> <sup>4</sup>	<u>6000</u>	<u>57</u>	<u>40</u>
		<u>Garden City</u> <sup>5</sup>	--	--	--
		<u>Randolph</u> <sup>4</sup>	<u>6300</u>	<u>57</u>	<u>40</u>
799	<u>San Juan</u>	<u>Monticello</u> <sup>3</sup>	<u>6820</u>	<u>50</u>	<u>35</u>
800	<u>Summit</u>	<u>Coalville</u> <sup>3</sup>	<u>5600</u>	<u>86</u>	<u>60</u>
		<u>Kamas</u> <sup>4</sup>	<u>6500</u>	<u>114</u>	<u>80</u>
801	<u>Tooele</u>	<u>Tooele</u> <sup>3</sup>	<u>5100</u>	<u>43</u>	<u>30</u>
802	<u>Utah</u>	<u>Orem</u> <sup>3</sup>	<u>4650</u>	<u>43</u>	<u>30</u>
		<u>Pleasant Grove</u> <sup>4</sup>	<u>5000</u>	<u>43</u>	<u>30</u>
		<u>Provo</u> <sup>5</sup>	--	--	--
803	<u>Wasatch</u>	<u>Heber</u> <sup>5</sup>	--	--	--
804	<u>Washington</u>	<u>Leeds</u> <sup>3</sup>	<u>3460</u>	<u>29</u>	<u>20</u>
		<u>Santa Clara</u> <sup>3</sup>	<u>2850</u>	<u>21</u>	<u>15</u>
		<u>St. George</u> <sup>3</sup>	<u>2750</u>	<u>21</u>	<u>15</u>
		<u>All other county locations</u> <sup>5</sup>	--	--	--
805	<u>Wayne</u>	<u>Loa</u> <sup>3</sup>	<u>7080</u>	<u>43</u>	<u>30</u>
806	<sup>1</sup> The IBC requires a minimum live load - See 1607.11.2.				
807	<sup>2</sup> 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.				
808	<sup>3</sup> Values adopted from Table VII of the Utah Snow Load Study.				
809	<sup>4</sup> Values based on site-specific study. Contact local Building Official for additional information.				
810	<sup>5</sup> Contact local Building Official.				
811	<sup>6</sup> Based on C <sub>s</sub> = 1.0, C <sub>t</sub> = 1.0 and I <sub>s</sub> = 1.0"				

812 (8) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The  
813 value for the thermal factor, C<sub>t</sub>, used in calculation of P<sub>f</sub> shall be determined from Table 7.3 in  
814 ASCE 7.  
815 Exception: Except for unheated structures, the value of C<sub>t</sub> need not exceed 1.0 when ground  
816 snow load, P<sub>g</sub> is calculated using Section 1608.1.2 as amended."

817 (9) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground  
818 Snow Loads. The ground snow loads to be used in determining the design snow loads for roofs  
819 in states other than Utah are given in Figure 1608.2 for the contiguous United States and Table  
820 1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in figure  
821 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure 1608.2  
822 and for all sites within the CS areas shall be approved. Ground snow load determination for  
823 such sites shall be based on an extreme value statistical analysis of data available in the vicinity  
824 of the site using a value with a 2-percent annual probability of being exceeded (50-year mean  
825 recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as  
826 approved by the building official."

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

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

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

839 WHERE:

840  $W_s$  = Weight of snow to be included in seismic calculations

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

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

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

846 ~~[(12)]~~ (11) A new IBC, Section ~~[1613.8]~~ 1613.5, is added as follows: "~~[1613.8]~~ 1613.5  
 847 ASCE 7, Section 13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall  
 848 have a sleeve or adapter through the ceiling tile to allow for free movement of at least 1 inch  
 849 (25 mm) in all horizontal directions.

850 Exceptions:

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

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

854 **15A-3-108. Amendments to Chapters 17 through 19 of IBC.**

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

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

862 "TABLE 1807.1.6.4

863 EMPIRICAL FOUNDATION WALLS (1,7,8)

864 Max. Height	Top Edge Support	Min. Thickness	Vertical Steel (2)	Horizontal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
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865	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"
866	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"
867	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"
868	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"
869	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"
870	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"
871	Over 9'(2,743 mm), Engineering required for each column							
872	Footnotes:							
873	(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.							
874	(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.							
875	(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).							

876	(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.
877	(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.
878	(6) Diaphragm shall conform to the requirements of Section 2308.
879	(7) Footing shall be a minimum of nine inches thick by 20 inches wide.
880	(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."

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

883 Exceptions:

884 "1. In ACI Table 4.3.1, for Exposure Class F1, change Maximum w/cm from 0.45 to  
 885 0.5 and Minimum f'c from 4,500 psi to 3,000 psi."

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

887 [~~"1904.4.1 Air Entrainment. Concrete that extends above grade and is exposed to  
 888 freezing and thawing while moist shall be air entrained in accordance with ACI 318, Section  
 889 4.4.1."~~]

890 (4) A new IBC, Section 1905.1.11, is added as follows: "1905.1.11 ACI 318, Table  
 891 4.2.1." Modify ACI 318, Table 4.2.1 to read as follows: In the portion of the table designated  
 892 as "Conditions", the Exposure categories and classes are deleted and replaced with the  
 893 following:

894 "F0: Concrete elements not exposed to freezing and thawing cycles to include footing and  
 895 foundation elements that are completely buried in soil.

896 F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be saturated  
 897 or exposed to deicing chemicals.

898 F2: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated,

899 but not exposed to deicing chemicals.

900 F3: Concrete elements exposed to freezing and thawing cycles and are likely to be saturated  
 901 and exposed to deicing chemicals."

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

903 **15A-3-110. Amendments to Chapters 23 through 25 of IBC.**

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

908 (2) In IBC, Section 2308.6, a new exception is added as follows: "Exception: Where  
 909 foundation plates or sills are bolted or anchored to the foundation with not less than 1/2 inch  
 910 (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 inches (178 mm) into  
 911 concrete or masonry and spaced not more than 32 inches (816 mm) apart, there shall be a  
 912 minimum of two bolts or anchor straps per piece located not less than 4 inches (102 mm) from  
 913 each end of each piece. A properly sized nut and washer shall be tightened on each bolt to the  
 914 plate."

915 (3) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1 Other  
 916 materials. Metal suspension systems for acoustical and lay-in panel ceilings shall conform with  
 917 ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE [7-05] 7, as amended in Section  
 918 1613.8, for installation in high seismic areas."

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

920 **15A-3-112. Amendments to Chapters 29 through 31 of IBC.**

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

923 (a) [<sup>a</sup>] The title for [P] Table 2902.1 is deleted and replaced with the following: "[P]  
 924 Table 2902.1, Minimum Number of Required Plumbing Facilities <sup>a, [g] h</sup>[" ~~and~~].

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

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

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

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

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

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

936            **15A-3-113. Amendments to Chapters 32 through 35 of IBC.**

937            (1) A new section IBC, Section ~~[3401.6]~~ 3401.7, is added as follows: "~~[3401.6]~~ 3401.7  
938 Parapet bracing, wall anchors, and other appendages. Until June 30, 2014, a building  
939 constructed before 1975 shall have parapet bracing, wall anchors, and appendages such as  
940 cornices, spires, towers, tanks, signs, statuary, etc. evaluated by a licensed engineer when the  
941 building is undergoing structural alterations, which may include structural sheathing  
942 replacement of 10% or greater, or other structural repairs. Reroofing or water membrane  
943 replacement may not be considered a structural alteration or repair for purposes of this section.  
944 Beginning July 1, 2014, a building constructed before 1975 shall have parapet bracing, wall  
945 anchors, and appendages such as cornices, spires, towers, tanks, signs, statuary, etc. evaluated  
946 by a licensed engineer when the building is undergoing a total reroofing. Parapet bracing, wall  
947 anchors, and appendages required by this section shall be evaluated in accordance with 75% of  
948 the seismic forces as specified in Section 1613. When allowed by the local building official,  
949 alternate methods of equivalent strength as referenced in an approved code under Utah Code,  
950 Subsection 15A-1-204(6)(a), will be considered when accompanied by engineer-sealed  
951 drawings, details, and calculations. When found to be deficient because of design or  
952 deteriorated condition, the engineer's recommendations to anchor, brace, reinforce, or remove  
953 the deficient feature shall be implemented.

954 Exceptions:

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

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

966 Exceptions:

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

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

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

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

983 change of occupancy classification."]

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

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

989 [F1: Concrete elements exposed to freezing and thawing cycles and are not likely to be  
 990 saturated or exposed to deicing chemicals.]

991 [F2: Concrete elements exposed to freezing and thawing cycles and are likely to be  
 992 saturated, but not exposed to deicing chemicals.]

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

995 [(5) (3) In IBC, Chapter 35, the referenced standard [ICC/ANSI A117.1-03]  
 996 ICCA117.1-09, Section 606.2, Exception 1 is modified to include the following sentence at the  
 997 end of the exception:

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

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

1000	["Number]	[Title]	[Referenced in code section number]
1001	[720-09]	[Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment]	[907.9"]

1002 [(7) (4) The following referenced standard is added under UL in IBC, Chapter 35:

1003	"Number	Title	Referenced in code section number
1004	2034-2008	Standard of Single- and Multiple-station Carbon Monoxide Alarms	907.9"

1005 [(8) In IBC, Chapter 35, NFPA referenced standard 10-07 is deleted and replaced with  
 1006 the following:]

1007	["Number]	[Title]	[Referenced in code section number]
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1008

[10-10]	[Portable Fire Extinguishers]	[906.2, 906.3.2, 906.3.4, Table 906.3(1), Table 906.3(2)]
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1009            [~~9~~] In IBC, Chapter 35, NFPA referenced standard 11-05 is deleted and replaced with  
 1010 the following:]

1011

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

1013            [~~10~~] In IBC, Chapter 35, NFPA referenced standard 12-05 is deleted and replaced with  
 1014 the following:]

1015

[Number]	[Title]	[Referenced in code section number]
[12-08]	[Carbon Dioxide Extinguishing Systems]	[904.8, 904.11"]

1017            [~~11~~] In IBC, Chapter 35, NFPA referenced standard 12A-04 is deleted and replaced  
 1018 with the following:]

1019

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

1021            [~~12~~] In IBC, Chapter 35, NFPA referenced standard 13-07 is deleted and replaced with  
 1022 the following:]

1023	[Number]	[Title]	[Referenced in code section number]
1024	[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"]

1025            [~~13~~] In IBC, Chapter 35, NFPA referenced standard 13D-07 is deleted and replaced  
 1026 with the following:]

1027	[Number]	[Title]	[Referenced in code section number]
1028	[13D-10]	[Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes]	[903.3.1.3, 903.3.5.1.1"]

1029            [~~14~~] In IBC, Chapter 35, NFPA referenced standard 13R-07 is deleted and replaced  
 1030 with the following:]

1031	[Number]	[Title]	[Referenced in code section number]
1032	[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"]

1033            [~~15~~] In IBC, Chapter 35, NFPA referenced standard 14-07 is deleted and replaced with  
 1034 the following:]

1035	[Number]	[Title]	[Referenced in code section number]
1036	[14-10]	[Installation of Standpipe and Hose System]	[905.2, 905.3.4, 905.6.2, 905.8"]

1037            [~~16~~] In IBC, Chapter 35, NFPA referenced standard 17-02 is deleted and replaced with



1038 the following:]

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

1041 [~~(17) In IBC, Chapter 35, NFPA referenced standard 17A-02 is deleted and replaced~~  
 1042 ~~with the following:]~~

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

1045 [~~(18) In IBC, Chapter 35, NFPA referenced standard 20-07 is deleted and replaced with~~  
 1046 ~~the following:]~~

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

1049 [~~(19) In IBC, Chapter 35, NFPA referenced standard 72-07 is deleted and replaced with~~  
 1050 ~~the following:]~~

[Number]	[Title]	[Referenced in code section number]
[72-10]	[National Fire Alarm Code]	[901.6, 903.4.1, 904.3.5, 907.2, 907.2.5, 907.2.11, 907.2.13.2, 907.3, 907.3.3, 907.3.4, 907.5.2.1.2, 907.5.3.3, 907.6, 907.6.1, 907.6.5, 907.7, 907.7.1, 907.7.2, 911.1.5, 3006.5, 3007.6"]

1053 [~~(20) In IBC, Chapter 35, NFPA referenced standard 92B-05 is deleted and replaced~~

1054 with the following:]

1055 [Number]	[Title]	[Referenced in code section number]
1056 [92B-09]	[Smoke Management Systems in Malls, Atria and Large Spaces]	[909.8"]

1057 [~~21~~] In IBC, Chapter 35, NFPA referenced standard 101-06 is deleted and replaced  
 1058 with the following:]

1059 [Number]	[Title]	[Referenced in code section number]
1060 [101-09]	[Line Safety Code]	[1028.6.2"]

1061 [~~22~~] In IBC, Chapter 35, NFPA referenced standard 110-05 is deleted and replaced  
 1062 with the following:]

1063 [Number]	[Title]	[Referenced in code section number]
1064 [110-10]	[Emergency and Standby Power Systems]	[2702.1"]

1065 Section 12. Section **15A-3-202** is amended to read:

1066 **Part 2. Statewide Amendments to IRC**

1067 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

1068 (1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2  
 1069 Physical change for bedroom window egress in legal nonconforming rental housing use. A  
 1070 structure classified as a legal nonconforming rental housing use, whose egress bedroom  
 1071 window is smaller than required by this code, is not required to undergo a physical change to  
 1072 conform to this code if the change would compromise the structural integrity of the building or  
 1073 could not be completed in accordance with other applicable requirements of this code,  
 1074 including setback and window well requirements."

1075 (2) In IRC, Section 109:

1076 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant  
1077 exterior wall envelope inspections. An inspection shall be made of the weather-resistant  
1078 exterior wall envelope as required by Section R703.1 and flashings as required by Section  
1079 R703.8 to prevent water from entering the weather-resistive barrier."

1080 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;  
1081 R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced  
1082 masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection;  
1083 and R109.1.7 Final inspection.

1084 (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to  
1085 owner. Upon notice from the building official that work on any building or structure is being  
1086 prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an  
1087 unsafe and dangerous manner, such work shall be immediately stopped. The stop work order  
1088 shall be in writing and shall be given to the owner of the property involved, or to the owner's  
1089 agent or to the person doing the work; and shall state the conditions under which work will be  
1090 permitted to resume."

1091 (4) In IRC, Section R202, the following definition is added: "CERTIFIED  
1092 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to  
1093 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
1094 under Utah Code, Subsection 19-4-104(4)."

1095 (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by  
1096 deleting the words at the end of the sentence "being heated or cooled by any equipment or  
1097 appliance" and replacing them with the following: "enclosed within the building thermal  
1098 envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following  
1099 means:

- 1100 1. Openings directly into an adjacent conditioned space.  
1101 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.  
1102 3. Un-insulated duct, piping or other heat or cooling source within the space."

1103            [~~(5)~~] (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and  
 1104 replaced with the following: "CROSS CONNECTION. Any physical connection or potential  
 1105 connection or arrangement between two otherwise separate piping systems, one of which  
 1106 contains potable water and the other either water of unknown or questionable safety or steam,  
 1107 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
 1108 with the direction of flow depending on the pressure differential between the two systems (see  
 1109 "Backflow, Water Distribution")."

1110            (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the  
 1111 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear  
 1112 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without  
 1113 objectionable odors; non-highly pigmented; and will not interfere with the operation of the  
 1114 sewer treatment facility."

1115            [~~(6)~~] (8) In IRC, Section R202, the definition of "Potable Water" is deleted and  
 1116 replaced with the following: "POTABLE WATER. Water free from impurities present in  
 1117 amounts sufficient to cause disease or harmful physiological effects and conforming to the  
 1118 Utah Code, Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the  
 1119 regulations of the public health authority having jurisdiction."

1120            [~~(7)~~] (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and  
 1121 Table R301.2(5b) as follows:

"TABLE NO. R301.2(5a)				
STATE OF UTAH - REGIONAL SNOW LOAD FACTORS				
	COUNTY	P <sub>o</sub>	S	A <sub>o</sub>
	Beaver	43	63	6.2
	Box Elder	43	63	5.2
	Cache	50	63	4.5
	Carbon	43	63	5.2
	Daggett	43	63	6.5

1130	Davis	43	63	4.5
1131	Duchesne	43	63	6.5
1132	Emery	43	63	6.0
1133	Garfield	43	63	6.0
1134	Grand	36	63	6.5
1135	Iron	43	63	5.8
1136	Juab	43	63	5.2
1137	Kane	36	63	5.7
1138	Millard	43	63	5.3
1139	Morgan	57	63	4.5
1140	Piute	43	63	6.2
1141	Rich	57	63	4.1
1142	Salt Lake	43	63	4.5
1143	San Juan	43	63	6.5
1144	Sanpete	43	63	5.2
1145	Sevier	43	63	6.0
1146	Summit	86	63	5.0
1147	Tooele	43	63	4.5
1148	Uintah	43	63	7.0
1149	Utah	43	63	4.5
1150	Wasatch	86	63	5.0
1151	Washington	29	63	6.0
1152	Wayne	36	63	6.5
1153	Weber	43	63	4.5

1154 [TABLE NO. R301.2(5b)]

[RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)]				
			[Roof Snow Load (PSF)]	[Ground Snow Load (PSF)]
1155	[Beaver County]			
1156	[Beaver]	[5,920 ft.]	[43]	[62]
1157	[Box Elder County]			
1158	[Brigham City]	[4,300 ft.]	[30]	[43]
1159	[Fremonton]	[4,290 ft.]	[30]	[43]
1160	[Cache County]			
1161	[Logan]	[4,530 ft.]	[35]	[50]
1162	[Smithfield]	[4,595 ft.]	[35]	[50]
1163	[Carbon County]			
1164	[Price]	[5,550 ft.]	[30]	[43]
1165	[Daggett County]			
1166	[Manila]	[5,377 ft.]	[30]	[43]
1167	[Davis County]			
1168	[Bountiful]	[4,300 ft.]	[30]	[43]
1169	[Farmington]	[4,270 ft.]	[30]	[43]
1170	[Layton]	[4,400 ft.]	[30]	[43]
1171	[Fruit Heights]	[4,500 ft.]	[40]	[57]
1172	[Duchesne County]			
1173	[Duchesne]	[5,510 ft.]	[30]	[43]
1174	[Roosevelt]	[5,104 ft.]	[30]	[43]
1175	[Emery County]			
1176	[Castle Dale]	[5,660 ft.]	[30]	[43]
1177	[Green River]	[4,070 ft.]	[25]	[36]
1178				
1179				

1180	[Garfield County]			
1181	[Panguitch]	[6,600 ft.]	[30]	[43]
1182	[Grand County]			
1183	[Moab]	[3,965 ft.]	[25]	[36]
1184	[Iron County]			
1185	[Cedar City]	[5,831 ft.]	[30]	[43]
1186	[Juab County]			
1187	[Nephi]	[5,130 ft.]	[30]	[43]
1188	[Kane County]			
1189	[Kanab]	[5,000 ft.]	[25]	[36]
1190	[Millard County]			
1191	[Fillmore]	[5,000 ft.]	[30]	[43]
1192	[Delta]	[4,623 ft.]	[30]	[43]
1193	[Morgan County]			
1194	[Morgan]	[5,064 ft.]	[40]	[57]
1195	[Piute County]			
1196	[Piute]	[5,996 ft.]	[30]	[43]
1197	[Rich County]			
1198	[Woodruff]	[6,315 ft.]	[40]	[57]
1199	[Salt Lake County]			
1200	[Murray]	[4,325 ft.]	[30]	[43]
1201	[Salt Lake City]	[4,300 ft.]	[30]	[43]
1202	[Sandy]	[4,500 ft.]	[30]	[43]
1203	[West Jordan]	[4,375 ft.]	[30]	[43]
1204	[West Valley]	[4,250 ft.]	[30]	[43]
1205	[San Juan County]			

1206	[Blanding]	[6,200 ft.]	[30]	[43]
1207	[Monticello]	[6,820 ft.]	[35]	[50]
1208	[Sanpete County]			
1209	[Fairview]	[6,750 ft.]	[35]	[50]
1210	[Mt. Pleasant]	[5,900 ft.]	[30]	[43]
1211	[Manti]	[5,740 ft.]	[30]	[43]
1212	[Ephraim]	[5,540 ft.]	[30]	[43]
1213	[Gunnison]	[5,145 ft.]	[30]	[43]
1214	[Sevier County]			
1215	[Salina]	[5,130 ft.]	[30]	[43]
1216	[Richfield]	[5,270 ft.]	[30]	[43]
1217	[Summit County]			
1218	[Coalville]	[5,600 ft.]	[60]	[86]
1219	[Kamas]	[6,500 ft.]	[70]	[100]
1220	[Park City]	[6,800 ft.]	[100]	[142]
1221	[Park City]	[8,400 ft.]	[162]	[231]
1222	[Summit Park]	[7,200 ft.]	[90]	[128]
1223	[Tooele County]			
1224	[Tooele]	[5,100 ft.]	[30]	[43]
1225	[Uintah County]			
1226	[Vernal]	[5,280 ft.]	[30]	[43]
1227	[Utah County]			
1228	[American Fork]	[4,500 ft.]	[30]	[43]
1229	[Orem]	[4,650 ft.]	[30]	[43]
1230	[Pleasant Grove]	[5,000 ft.]	[30]	[43]
1231	[Provo]	[5,000 ft.]	[30]	[43]



1232	[Spanish Fork]	[4,720 ft.]	[30]	[43]
1233	[Wasatch County]			
1234	[Heber]	[5,630 ft.]	[60]	[86]
1235	[Washington County]			
1236	[Central]	[5,209 ft.]	[25]	[36]
1237	[Dameron]	[4,550 ft.]	[25]	[36]
1238	[Leeds]	[3,460 ft.]	[20]	[29]
1239	[Rockville]	[3,700 ft.]	[25]	[36]
1240	[Santa Clara]	[2,850 ft.]	[15 (1)]	[21]
1241	[St. George]	[2,750 ft.]	[15 (1)]	[21]
1242	[Wayne County]			
1243	[Loa]	[7,080 ft.]	[30]	[43]
1244	[Hanksville]	[4,308 ft.]	[25]	[36]
1245	[Weber County]			
1246	[North Ogden]	[4,500 ft.]	[40]	[57]
1247	[Ogden]	[4,350 ft.]	[30]	[43]

1248 [NOTES]

1249 [~~(1) The IRC requires a minimum live load - See R301.6.~~]

1250 [~~(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."~~]

1251 TABLE NO. R301.2(5b)

1252 REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS<sup>1,2</sup>

1253 The following jurisdictions require design snow load values that differ from the Equation in the Utah Snow Load Study.

	<u>County</u>	<u>City</u>	<u>Elevation</u>	<u>Ground Snow Load (psf)</u>	<u>Roof Snow Load (psf)<sup>6</sup></u>
1254					
1255	<u>Carbon</u>	<u>Price<sup>3</sup></u> <u>All other county locations<sup>5</sup></u>	<u>5550</u> --	<u>43</u> --	<u>30</u> --
1256	<u>Davis</u>	<u>Fruit Heights<sup>3</sup></u>	<u>4500 - 4850</u>	<u>57</u>	<u>40</u>
1257	<u>Emery</u>	<u>Green River<sup>3</sup></u>	<u>4070</u>	<u>36</u>	<u>25</u>
1258	<u>Garfield</u>	<u>Panguitch<sup>3</sup></u>	<u>6600</u>	<u>43</u>	<u>30</u>
1259	<u>Rich</u>	<u>Woodruff<sup>3</sup></u> <u>Laketown<sup>4</sup></u> <u>Garden City<sup>5</sup></u> <u>Randolph<sup>4</sup></u>	<u>6315</u> <u>6000</u> -- <u>6300</u>	<u>57</u> <u>57</u> -- <u>57</u>	<u>40</u> <u>40</u> -- <u>40</u>
1260	<u>San Juan</u>	<u>Monticello<sup>3</sup></u>	<u>6820</u>	<u>50</u>	<u>35</u>
1261	<u>Summit</u>	<u>Coalville<sup>3</sup></u> <u>Kamas<sup>4</sup></u>	<u>5600</u> <u>6500</u>	<u>86</u> <u>114</u>	<u>60</u> <u>80</u>
1262	<u>Tooele</u>	<u>Tooele<sup>3</sup></u>	<u>5100</u>	<u>43</u>	<u>30</u>
1263	<u>Utah</u>	<u>Orem<sup>3</sup></u> <u>Pleasant Grove<sup>4</sup></u> <u>Provo<sup>5</sup></u>	<u>4650</u> <u>5000</u> --	<u>43</u> <u>43</u> --	<u>30</u> <u>30</u> --
1264	<u>Wasatch</u>	<u>Heber<sup>5</sup></u>	--	--	--
1265	<u>Washington</u>	<u>Leeds<sup>3</sup></u> <u>Santa Clara<sup>3</sup></u> <u>St. George<sup>3</sup></u> <u>All other county locations<sup>5</sup></u>	<u>3460</u> <u>2850</u> <u>2750</u> --	<u>29</u> <u>21</u> <u>21</u> --	<u>20</u> <u>15</u> <u>15</u> --
1266	<u>Wayne</u>	<u>Loa<sup>3</sup></u>	<u>7080</u>	<u>43</u>	<u>30</u>
1267	<sup>4</sup> The IRC requires a minimum live load – See R301.6.				

1268 <sup>2</sup>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.

1269 <sup>3</sup>Values adopted from Table VII of the Utah Snow Load Study

1270 <sup>4</sup>Values based on site-specific study. Contact local Building Official for additional  
information.

1271 <sup>5</sup>Contact local Building Official.

1272 <sup>6</sup>Based on  $C_e = 1.0$ ,  $C_t = 1.0$  and  $I_s = 1.0$ "

1273 [(8)] (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6  
 1274 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the  
 1275 jurisdictions identified in that table. Otherwise, the ground snow load,  $P_g$ , to be used in the  
 1276 determination of design snow loads for buildings and other structures shall be determined by  
 1277 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  
 1278 less than or equal to  $A_o$ .

1279 WHERE:

1280  $P_g$  = Ground snow load at a given elevation (psf);

1281  $P_o$  = Base ground snow load (psf) from Table No. R301.2(5a);

1282 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);

1283 A = Elevation above sea level at the site (ft./1,000);

1284  $A_o$  = Base ground snow elevation from Table R301.2(5a) (ft./1,000).

1285 The building official may round the roof snow load to the nearest 5 psf. The ground snow  
 1286 load,  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits  
 1287 data substantiating the adjustments. ~~[A record of such action together with the substantiating~~  
 1288 ~~data shall be provided to the division for a permanent record.~~

1289 ~~The building official may also directly adopt roof snow loads in accordance with Table~~  
 1290 ~~R301.2(5b), provided the site is no more than 100 ft. higher than the listed elevation.]~~

1291 Where the minimum roof live load in accordance with Table R301.6 is greater than the design

1292 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to  
1293 a load lower than the design roof snow load. Drifting need not be considered for roof snow  
1294 loads less than 20 psf."

1295 ~~[(9)]~~ (11) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced  
1296 with the following:

1297 "Exceptions:

1298 1. A common 2-hour fire-resistance-rated wall is permitted for townhouses if such walls do  
1299 not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common  
1300 wall. Electrical installation shall be installed in accordance with Chapters 34 through 43.

1301 Penetrations of electrical outlet boxes shall be in accordance with Section R302.4.

1302 2. In buildings equipped with an automatic residential fire sprinkler system, a".

1303 ~~[(10)]~~ (12) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6.

1304 Townhouses separated by a common 2-hour fire-resistance-rated wall as provided in Section  
1305 R302.2."

1306 (13) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced  
1307 with "self-latching hardware".

1308 (14) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence.

1309 ~~[(11)]~~ (15) IRC, Sections R311.7.4 through R311.7.4.3, are deleted and replaced with  
1310 the following: "R311.7.4 Stair treads and risers. R311.7.4.1 Riser height. The maximum riser  
1311 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading  
1312 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not  
1313 exceed the smallest by more than 3/8 inch (9.5 mm).

1314 R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread  
1315 depth shall be measured horizontally between the vertical planes of the foremost projection of  
1316 adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within  
1317 any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder  
1318 treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point  
1319 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a

1320 minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
1321 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
1322 more than 3/8 inch (9.5 mm).

1323 R311.7.4.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater  
1324 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4  
1325 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection  
1326 shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two  
1327 stories, including the nosing at the level of floors and landings. Beveling of nosing shall not  
1328 exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading  
1329 edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open  
1330 risers are permitted, provided that the opening between treads does not permit the passage of a  
1331 4-inch diameter (102 mm) sphere.

1332 Exceptions.

1333 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).

1334 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches  
1335 (762 mm) or less."

1336 ~~[(12)]~~ (16) In IRC, Section ~~[R312.2]~~ R312.1.2, the words "adjacent fixed seating" are  
1337 deleted.

1338 ~~(17)~~ IRC, Section R312.2, is deleted.

1339 ~~[(13)]~~ (18) IRC, ~~[Section R313, is]~~ Sections R313.1 through R313.2.1, are deleted[-]  
1340 and replaced with the following: "R313.1 Design and installation. When installed, automatic  
1341 residential fire sprinkler systems for townhouses or one- and two-family dwellings shall be  
1342 designed and installed in accordance with Section P2904."

1343 ~~[(14)]~~ IRC, Section R315.1, is deleted and replaced with the following: "R315.1 Carbon  
1344 monoxide alarms. For new construction, a listed carbon monoxide alarm shall be installed on  
1345 each habitable level of dwelling units within which fuel-fired appliances are installed and in  
1346 dwelling units that have attached garages."

1347 ~~[(15)]~~ IRC, Section R315.3, is deleted and replaced with the following: "R315.3 Alarm

1348 requirements. ~~Listed single- and multiple-station carbon monoxide alarms shall comply with~~  
1349 ~~UL 2034 and shall be installed in accordance with the provision of this code and NFPA 720."]~~

1350 (19) A new IRC, Section R315.5, is added as follows: "R315.5 Power source. Carbon  
1351 monoxide alarms shall receive their primary power from the building wiring when such wiring  
1352 is served from a commercial source, and when primary power is interrupted, shall receive  
1353 power from a battery. Wiring shall be permanent and without a disconnecting switch other  
1354 than those required for over-current protection.

1355 Exceptions:

1356 1. Carbon monoxide alarms shall be permitted to be battery operated when installed in  
1357 buildings without commercial power.

1358 2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the  
1359 alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing  
1360 the structure, unless there is an attic, crawl space or basement available which could provide  
1361 access for hard wiring, without the removal of interior finishes."

1362 (20) A new IRC, Section R315.6, is added as follows: "R315.6 Interconnection.  
1363 Where more than one carbon monoxide alarm is required to be installed within an individual  
1364 dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in  
1365 such a manner that the actuation of one alarm will activate all of the alarms in the individual  
1366 unit. Physical interconnection of smoke alarms shall not be required where listed wireless  
1367 alarms are installed and all alarms sound upon activation of one alarm.

1368 Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required  
1369 where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing  
1370 the structure, unless there is an attic, crawl space or basement available which could provide  
1371 access for interconnection without the removal of interior finishes."

1372 ~~[(16)]~~ (21) In IRC, Section R403.1.6, a new Exception 4 is added as follows: "4.  
1373 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
1374 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
1375 from each end of each plate section at interior bearing walls, interior braced wall lines, and at

1376 all exterior walls."

1377           ~~[(17)]~~ (22) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2  
1378 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816  
1379 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
1380 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
1381 interior braced wall lines, and at all exterior walls."

1382           ~~[(18)]~~ (23) In IRC, Section R404.1, a new exception is added as follows: "Exception:  
1383 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
1384 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
1385 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

1386           (24) IRC, Section R501.3, is deleted.

1387           Section 13. Section **15A-3-204** is amended to read:

1388           **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

1389           (1) In IRC, Table M1601.1.1(2), in the section "Round ducts and enclosed rectangular  
1390 ducts", the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced  
1391 with "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size,  
1392 "0.013" under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under  
1393 aluminum minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is  
1394 deleted.

1395           (2) In IRC, Section M1901.3, the word "only" is inserted between the words "labeled"  
1396 and "for".

1397           (3) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.  
1398 Fuel gas services shall be in an approved location and/or provided with structures designed to  
1399 protect the fuel gas meter and surrounding piping from physical damage, including falling,  
1400 moving, or migrating ice and snow. If an added structure is used, it must provide access for  
1401 service and comply with the IBC or the IRC."

1402           Section 14. Section **15A-3-205** is amended to read:

1403           **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

1404 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water  
 1405 supply. Where a potable public water supply is not available, individual sources of potable  
 1406 water supply shall be utilized, provided that the source has been developed in accordance with  
 1407 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural  
 1408 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by  
 1409 the local health department having jurisdiction."

1410 (2) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every  
 1411 building in which plumbing fixtures are installed and all premises having drainage piping shall  
 1412 be connected to a public sewer where the sewer is accessible and is within 300 feet of the  
 1413 property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage  
 1414 disposal system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as  
 1415 administered by the Department of Environmental Quality, Division of Water Quality."

1416 (3) In IRC, Section P2801.7, [~~the word "townhouses" is~~] all words in the first sentence  
 1417 up to the word "water" are deleted.

1418 (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly  
 1419 testing. The premise owner or his designee shall have backflow prevention assemblies  
 1420 operation tested at the time of installation, repair, and relocation and at least on an annual basis  
 1421 thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be  
 1422 performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject  
 1423 to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker  
 1424 Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector  
 1425 Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and  
 1426 Reduced Pressure Detector Assembly."

1427 (5) IRC, Table P2902.3, is deleted and replaced with the following:

1428	["TABLE P2902.3]
1429	[General Methods of Protection]



1430	[Assembly (applicable standard)]	[Degree of Hazard]	[Application]	[Installation Criteria]
1431	[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)]	[High or Low]	[Backpressure or Backsiphonage] [1/2" - 16"]	[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.]
1432	[Double Check Backflow Prevention Assembly (AWWA C510, USC FCCCHR, ASSE 1015) Double Check Detector Assembly Backflow Preventer (ASSE 1048, USC FCCCHR)]	[Low]	[Backpressure or Backsiphonage] [1/2" - 16"]	[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.]

1433

<p>[<del>Pressure Vacuum Breaker Assembly (ASSE 1020; USC-FCCCHR)</del>]</p>	<p>[<del>High or Low</del>]</p>	<p>[<del>Backsiphonage 1/2" - 2"</del>]</p>	<p>[<del>a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.</del>]                  [<del>b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.</del>]                  [<del>c. Shall not be installed below ground or in a vault or pit.</del>]                  [<del>d. Shall be installed in a vertical position only.</del>]</p>
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1434

<p>[<del>Spill Resistant Vacuum Breaker (ASSE 1056; USC-FCCCHR)</del>]</p>	<p>[<del>High or Low</del>]</p>	<p>[<del>Backsiphonage 1/4" - 2"</del>]</p>	<p>[<del>a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.</del>]                  [<del>b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use.</del>]                  [<del>c. Shall not be installed below ground or in a vault or pit.</del>]                  [<del>d. Shall be installed in a vertical position only.</del>]</p>
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1435

<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>
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1436

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

1437

["TABLE 2902.3a]

1438

[Specialty Backflow Devices for low hazard use only]

1439

[Device]	[Degree of Hazard]	[Application]	[Applicable Standard]
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1440

[Air-Gap]	[High or Low]	[Backsiphonage]	[See Table P2902.3.1 ASME A112.1.2]
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1441	[Antisiphon-type Water Closet Flush Tank Ball Cock]	[Low]	[Backsiphonage]	[ASSE 1002 CSA-CAN/ CSA-B125]
1442	[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]
1443	[Dual check valve Backflow Preventer]	[Low]	[Backsiphonage or Backpressure 1/4" - 1"]	[ASSE 1024]

1444	[Backflow Preventer with Intermediate Atmospheric Vent]	[Low Residential Boiler]	[Backsiphonage or Backpressure 1/4" - 3/4"]	[ASSE-1012 CSA-CAN/ CSA-B64.3]
1445	[Dual-check valve type Backflow Preventer for Carbonated Beverage Dispensers/Post Mix Type]	[Low]	[Backsiphonage or Backpressure 1/4" - 3/8"]	[ASSE-1022]
1446	[Hose-connection Vacuum Breaker]	[Low]	[Backsiphonage 1/2", 3/4", 1"]	[ASSE-1011 CSA-CAN/ CSA-B64.2]
1447	[Vacuum Breaker Wall Hydrants, Frost-resistant, Automatic Draining Type]	[Low]	[Backsiphonage 3/4", 1"]	[ASSE-1019 CSA-CAN/ CSA-B64.2.2]
1448	[Laboratory Faucet Backflow Preventer]	[Low]	[Backsiphonage]	[ASSE-1035 CSA-CAN/ CSA-B64.7]

1449	[Hose Connection Backflow Preventer]	[Low]	[Backsiphonage 1/2" - 1"]	[ASSE 1052]
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1450 [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.]

1451	<u>"DEVICE</u>	<u>DEGREE OF HAZARD<sup>a</sup></u>	<u>APPLICATION<sup>b</sup></u>	<u>APPLICABLE STANDARDS</u>
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1452 BACKFLOW PREVENTION ASSEMBLIES:

1453	<u>Double check backflow prevention assembly and double check fire protection backflow prevention assembly</u>	<u>Low hazard</u>	<u>Backpressure or backsiphonage Sizes 3/8" - 16"</u>	<u>ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1</u>
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1454	<u>Double check detector fire protection backflow prevention assemblies</u>	<u>Low hazard</u>	<u>Backpressure or backsiphonage Sizes 3/8" - 16"</u>	<u>ASSE 1048</u>
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1455	<u>Pressure vacuum breaker assembly</u>	<u>High or low hazard</u>	<u>Backsiphonage only Sizes 1/2" - 2"</u>	<u>ASSE 1020, CSA B64.1.2</u>
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1456	<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>
1457	<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>
1458	<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>
1459	<u>BACKFLOW PREVENTER PLUMBING DEVICES:</u>			
1460	<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>
1461	<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>
1462	<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>
1463	<u>Dual check valve type backflow preventers</u>	<u>Low hazard</u>	<u>Backpressure or backsiphonage</u> <u>Sizes 1/4" - 1"</u>	<u>ASSE 1024, CSA B64.6</u>

1464	<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>
1465	<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>
1466	<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>
1467	<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>
1468	<u>OTHER MEANS or METHODS:</u>			
1469	<u>Air gap</u>	<u>High or low hazard</u>	<u>Backsiphonage only</u>	<u>ASME A112.1.2</u>
1470	<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>
1471	<u>For SI: 1 inch = 25.4 mm</u>			
1472	<u>a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)</u>			
1473	<u>b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage Section 202)</u>			
1474	<u>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."</u>			

1475           (6) In IRC, Section P3009.1, all words after the word "urinals" are deleted and the  
 1476 following sentence is added at the end: "Gray water recycling systems for subsurface landscape  
 1477 irrigation shall conform with UAC R317-401 Gray Water Systems."



1478 (7) A new IRC, Section P3009.1.1, is added as follows: "P3009.1.1 Recording. The  
1479 existence of a gray water recycling system shall be recorded on the deed of ownership for that  
1480 property. The certificate of occupancy shall not be issued until the documentation of the  
1481 recording required under this section is completed by the owner."

1482 (8) In IRC, Section P3009.2, the words "and systems for subsurface landscape  
1483 irrigation shall comply with Section P3009.14" are deleted.

1484 (9) IRC, Section P3009.6, is deleted and replaced with the following: "P3009.6 Potable  
1485 water connections. The potable water supply to any building utilizing a gray water recycling  
1486 system shall be protected against backflow by a reduced pressure backflow prevention  
1487 assembly installed in accordance with Section P2902."

1488 (10) In IRC, Section P3009.7, the following is added at the end of the sentence: "and  
1489 other clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;  
1490 without objectionable odor; non-highly pigmented; and will not interfere with the operation of  
1491 the sewer treatment facility."

1492 (11) In IRC, Section P3009.13.3, in the second sentence, the following is added  
1493 between the words "backflow" and "in": "by a reduced pressure backflow prevention assembly  
1494 or an air gap installed".

1495 (12) IRC, Section P3009.14, is deleted and replaced with the following: "Section  
1496 P3009.14 LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems utilized for  
1497 subsurface irrigation for single family residences shall comply with the requirements of UAC  
1498 R317-401, Gray Water Systems. Gray water recycling systems utilized for subsurface  
1499 irrigation for other occupancies shall comply with UAC R317-3, Design Requirements for  
1500 Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite Waterwaste  
1501 Systems."

1502 ~~[(7)]~~ (13) In IRC, Section P3103.6, the following sentence is added at the end of the  
1503 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the  
1504 wall with an elbow pointing downward."

1505 ~~[(8)]~~ (14) In IRC, Section P3104.4, the following sentence is added at the end of the

1506 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
1507 and floor sink installations when installed below grade in accordance with Chapter 30, and  
1508 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

1509 Section 15. Section 15A-3-206 is amended to read:

1510 **15A-3-206. Amendments to Chapters 36 and 44 of IRC.**

1511 (1) In IRC, Section [~~E3902.11~~] E3902.12, the following words are deleted: "family  
1512 rooms, dining rooms, living rooms, parlors, libraries, dens, sunrooms, recreation rooms,  
1513 closets, hallways, and similar rooms or areas[<sup>m</sup>]."

1514 Exception: This section does not apply for a simple move or an extension of a branch circuit or  
1515 an outlet which does not significantly increase the existing electrical load. This exception does  
1516 not include changes involving remodeling or additions to a residence."

1517 (2) IRC, Chapter 44, is amended by adding the following reference standard:

"Standard reference number	Title	Referenced in code section number
USC-FCCCHR [9 <sup>th</sup> ] 10 <sup>th</sup> 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"

1520 [~~(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"]

1523 [~~(4) IRC, Appendix O, Gray Water Recycling Systems, is deleted and replaced with~~  
1524 ~~Appendix C of the International Plumbing Code as amended by the State Construction Code.]~~

1525 Section 16. Section 15A-3-302 is amended to read:

1526 **Part 3. Statewide Amendments to IPC**1527 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

1528 (1) A new IPC, Section 101.2, is added as follows: "For clarification, the International  
1529 Private Sewage Disposal Code is not part of the plumbing code even though it is in the same  
1530 printed volume."

1531 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is  
1532 deleted.

1533 (3) In IPC, Section 202, the following definition is added: "Certified Backflow  
1534 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention  
1535 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection  
1536 19-4-104(4)."

1537 (4) In IPC, Section 202, the following definition is added: "Contamination (High  
1538 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the  
1539 public health through poisoning or through the spread of disease by sewage, industrial fluids or  
1540 waste."

1541 [~~(4)~~] (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and  
1542 replaced with the following: "Cross Connection. Any physical connection or potential  
1543 connection or arrangement between two otherwise separate piping systems, one of which  
1544 contains potable water and the other either water of unknown or questionable safety or steam,  
1545 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
1546 with the direction of flow depending on the pressure differential between the two systems (see  
1547 "Backflow")."

1548 (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A  
1549 manufactured or field fabricated trap with a liquid seal of 4" or larger."

1550 (7) In IPC, Section 202, in the definition for gray water a comma is inserted after the  
1551 word "washers"; the word "and" is deleted; and the following is added to the end: "and clear  
1552 water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without  
1553 objectionable odors; non-highly pigmented; and will not interfere with the operation of the

1554 sewer treatment facility."

1555 (8) In IPC, Section 202, the following definition is added: "High Hazard. See  
1556 Contamination."

1557 (9) In IPC, Section 202, the following definition is added: "Low Hazard. See  
1558 Pollution."

1559 (10) In IPC, Section 202, the following definition is added: "Pollution (Low Hazard).  
1560 An impairment of the quality of the potable water to a degree that does not create a hazard to  
1561 the public health but that does adversely and unreasonably affect the aesthetic qualities of such  
1562 potable water for domestic use."

1563 ~~[(5)]~~ (11) In IPC, Section 202, the definition for "Potable Water" is deleted and  
1564 replaced with the following: "Potable Water. Water free from impurities present in amounts  
1565 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,  
1566 Title 19, Chapters 4, Safe Drinking Water Act, and 5, Water Quality Act, and the regulations of  
1567 the public health authority having jurisdiction."

1568 Section 17. Section **15A-3-303** is amended to read:

1569 **15A-3-303. Amendments to Chapter 3 of IPC.**

1570 (1) In IPC, [~~Table 303.4, the item listed as "Backflow prevention devises" is modified~~  
1571 ~~as follows]~~ Section 303.4, the following exception is added:

1572 [~~(a) in the Third-Party Certified field, after the word "Required" add "See footnote 1";]~~

1573 [~~(b) in the Third-Party Tested field the following is added: "Required see footnote 1";~~  
1574 ~~and]~~

1575 [~~(c) a new footnote 1 is added as follows: "1;~~

1576 "Exception: Third-party certification for backflow prevention assemblies will consist of any  
1577 combination of two certifications, laboratory or field. Acceptable third party laboratory  
1578 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently  
1579 provides the only field testing of backflow protection assemblies. Also see  
1580 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative Code,  
1581 R309-305-6."

1582 (2) IPC, Section 304.3, Meter Boxes, is deleted.

1583 (3) IPC, Section 311.1, is deleted.

1584 [~~(4) IPC, Sections 312.10 through 312.10.2, are deleted and replaced with the~~  
1585 ~~following: "312.10 Backflow assembly testing. The premise owner or his designee shall have~~  
1586 ~~backflow prevention assemblies operation tested at the time of installation, repair, and~~  
1587 ~~relocation and at least on an annual basis thereafter, or more frequently as required by the~~  
1588 ~~authority having jurisdiction. Testing shall be performed by a Certified Backflow Preventer~~  
1589 ~~Assembly Tester. The assemblies that are subject to this paragraph are the Spill Resistant~~  
1590 ~~Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow~~  
1591 ~~Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the Reduced~~  
1592 ~~Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly."~~]

1593 (4) In IPC, Section 312.3, the following is added at the end of the paragraph:

1594 "Where water is not available at the construction site or where freezing conditions limit  
1595 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be  
1596 tested with air. The following procedures shall be followed:

1597 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can  
1598 explode, causing serious injury or death.

1599 2. Contractor assumes all liability for injury or death to persons or damage to property or for  
1600 claims for labor and/or material arising from any alleged failure of the system during testing  
1601 with air or compressed gasses.

1602 3. Proper personal protective equipment, including safety eyewear and protective headgear,  
1603 should be worn by all individuals in any area where an air or gas test is being conducted.

1604 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1605 5. No water supply system shall be pressurized in excess of 6 psi as measured by accurate  
1606 gauges graduated to no more than three times the test pressure.

1607 6. The pressure gauge shall be monitored during the test period, which should not exceed 15  
1608 minutes.

1609 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or

1610 gases should be vented, and test balls and plugs should be removed with caution."

1611 (5) In IPC, Section 312.5, the following is added at the end of the paragraph:

1612 "Where water is not available at the construction site or where freezing conditions limit  
1613 the use of water on the construction site, plastic water pipes may be permitted to be tested with  
1614 air. The following procedures shall be followed:

1615 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and can  
1616 explode, causing serious injury or death.

1617 2. Contractor assumes all liability for injury or death to persons or damage to property or for  
1618 claims for labor and/or material arising from any alleged failure of the system during testing  
1619 with air or compressed gasses.

1620 3. Proper personal protective equipment, including safety eyewear and protective headgear,  
1621 should be worn by all individuals in any area where an air or gas test is being conducted.

1622 4. Contractor shall take all precautions necessary to limit the pressure within the plastic piping.

1623 5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more than 80  
1624 psi as measured by accurate gauges graduated to no more than three times the test pressure.

1625 6. The pressure gauge shall be monitored during the test period, which should not exceed 15  
1626 minutes.

1627 7. At the conclusion of the test, the system shall be depressurized gradually, all trapped air or  
1628 gases should be vented, and test balls and plugs should be removed with caution."

1629 (6) A new IPC, Section 312.10.3, is added as follows: "312.10.3 Tester Qualifications.  
1630 Testing shall be performed by a Utah Certified Backflow Preventer Assembly Tester in  
1631 accordance with Utah Administrative Code, R309-305."

1632 Section 18. Section **15A-3-304** is amended to read:

1633 **15A-3-304. Amendments to Chapter 4 of IPC.**

1634 (1) In IPC, [~~Section~~] Table 403.1, [a new footnote g is added as follows:] the following  
1635 changes are made:

1636 (a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,  
1637 Minimum Number of Required Plumbing Facilities<sup>a, h</sup>;"

1638 (b) In the row for "E" occupancy in the field for "OTHER" a new footnote i is added.

1639 (c) In the row for "I-4" occupancy in the field for "OTHER" a new footnote i is added.

1640 (d) A new footnote h is added as follows: "FOOTNOTE: [g] h. When provided, in  
1641 public toilet facilities there shall be an equal number of diaper changing facilities in male toilet  
1642 rooms and female toilet rooms."

1643 (e) A new footnote i is added to the table as follows: "FOOTNOTE i: Non-residential  
1644 child care facilities shall comply with additional sink requirements of Utah Administrative  
1645 Code R430-100-4."

1646 (2) A new IPC, Section ~~[406.4]~~ 406.3, is added as follows: "~~[406.4]~~ 406.3 Automatic  
1647 clothes washer safe pans. Safe pans, when installed under automatic clothes washers, shall be  
1648 installed in accordance with Section 504.7."

1649 (3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All  
1650 public toilet rooms shall be equipped with at least one floor drain."

1651 Section 19. Section **15A-3-305** is amended to read:

1652 **15A-3-305. Amendments to Chapter 5 of IPC.**

1653 (1) IPC, Section 502.4, is deleted and replaced with the following: "502.4 Seismic  
1654 supports. Appliances designed to be fixed in position shall be fastened or anchored in an  
1655 approved manner. Water heaters shall be anchored or strapped to resist horizontal  
1656 displacement caused by earthquake motion. Strapping shall be at points within the upper  
1657 one-third and lower one-third of the appliance's vertical dimensions. At the lower point, the  
1658 strapping shall maintain a minimum distance of 4 inches (102 mm) above the controls."

1659 ~~[(1)]~~ (2) In IPC, Section 504.7.2, the following is added at the end of the section:

1660 "When permitted by the code official, the pan drain may be directly connected to a soil stack,  
1661 waste stack, or branch drain. The pan drain shall be individually trapped and vented as  
1662 required in Section 907.1. The pan drain shall not be directly or indirectly connected to any  
1663 vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044,  
1664 a barrier type floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

1665 ~~[(2)]~~ (3) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation.

1666 A water heater pan shall be considered an emergency receptor designated to receive the  
1667 discharge of water from the water heater only and shall not receive the discharge from any  
1668 other fixtures, devices, or equipment."

1669 Section 20. Section **15A-3-306** is amended to read:

1670 **15A-3-306. Amendments to Chapter 6 of IPC.**

1671 (1) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual  
1672 water supply. Where a potable public water supply is not available, individual sources of  
1673 potable water supply shall be utilized provided that the source has been developed in  
1674 accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as administered by the  
1675 Department of Natural Resources, Division of Water Rights. In addition, the quality of the  
1676 water shall be approved by the local health department having jurisdiction. The source shall  
1677 supply sufficient quantity of water to comply with the requirements of this chapter."

1678 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are  
1679 deleted.

1680 (3) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated  
1681 metering faucets. Self closing or manually operated metering faucets shall provide a flow of  
1682 water for at least 15 seconds without the need to reactivate the faucet."

1683 (4) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water  
1684 pressure booster systems. Water pressure booster systems shall be provided as required by  
1685 Section 606.5.1 through 606.5.11."

1686 (5) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited  
1687 installation. In no case shall a booster pump be allowed that will lower the pressure in the  
1688 public main to less than ~~[20 psi.]"~~ the minimum water pressure specified in Utah  
1689 Administrative Code R309-105-9."

1690 (6) In IPC, Section 608.1, the words "and pollution" are added after the word  
1691 "contamination."

1692 [~~6~~] (7) IPC, Table 608.1, is deleted and replaced with the following:



1693

[TABLE 608.1]

1694

[General Methods of Protection]

1695

[Assembly  
(applicable  
standard)]

[Degree of  
Hazard]

[Application]

[Installation Criteria]

1696

[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)]

[High or  
Low]

[Backpressure  
or  
Backsiphonage  
1/2" - 16"]

[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>1697</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.]</p> <p>[b. Shall be installed in a horizontal position unless listed or approved for vertical installation.]</p>
<p>1698</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>

1699

<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>
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1700

<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>
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1701

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

1702

["TABLE 608.1.1]

1703

[~~Specialty Backflow Devices for low hazard use only~~]

1704

<p>[Device]</p>	<p>[Degree of Hazard]</p>	<p>[Application]</p>	<p>[Applicable Standard]</p>
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1705	[Air-Gap]	[High or Low]	[Backsiphonage]	[See Table 608.15.1 ASME A112.1.2]
1706	[Antisiphon-type Water Closet Flush Tank Ball Cock]	[Low]	[Backsiphonage]	[ASSE 1002 CSA-CAN/ CSA-B125]
1707	[Atmospheric Vacuum Breaker]	[High or Low]	<p>[Backsiphonage]</p> <p>[a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.]</p> <p>[b. Shall not be installed where it may be subjected to continuous pressure for more than 12 consecutive hours at any time.]</p> <p>[c. Shall be installed a minimum of six inches above all downstream piping and the highest point of use.]</p> <p>[d. Shall be installed on the discharge (downstream) side of any valves.]</p> <p>[e. The AVB shall be installed in a vertical position only.]</p>	[ASSE 1001 USC-FCCCHR; CSA-CAN/ CSA-B64.1.1]

1708	[Dual-check valve Backflow Preventer]	[Low]	[Backsiphonage or Backpressure 1/4" - 1"]	[ASSE-1024]
1709	[Backflow Preventer with Intermediate Atmospheric Vent]	[Low Residential Boiler]	[Backsiphonage or Backpressure 1/4" - 3/4"]	[ASSE-1012 CSA-CAN/ CSA-B64.3]
1710	[Dual-check valve type Backflow Preventer for Carbonated Beverage Dispensers/Post Mix Type]	[Low]	[Backsiphonage or Backpressure 1/4" - 3/8"]	[ASSE-1022]
1711	[Hose-connection Vacuum Breaker]	[Low]	[Backsiphonage 1/2", 3/4", 1"]	[ASSE-1011 CSA-CAN/ CSA-B64.2]
1712	[Vacuum Breaker Wall Hydrants; Frost-resistant; Automatic Draining Type]	[Low]	[Backsiphonage 3/4", 1"]	[ASSE-1019 CSA-CAN/ CSA-B64.2.2]
1713	[Laboratory Faucet Backflow Preventer]	[Low]	[Backsiphonage]	[ASSE-1035 CSA-CAN/ CSA-B64.7]

1714	[Hose Connection Backflow Preventer]	[Low]	[Backsiphonage 1/2" - 1"]	[ASSE-1052]
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1715 [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.]

1716 "TABLE 608.1

1717 Application of Back Flow Preventers

1718	<u>DEVICE</u>	<u>DEGREE OF HAZARD<sup>a</sup></u>	<u>APPLICATION<sup>b</sup></u>	<u>APPLICABLE STANDARDS</u>
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1719 BACKFLOW PREVENTION ASSEMBLIES:

1720	<u>Double check backflow prevention assembly and double check fire protection backflow prevention assembly</u>	<u>Low hazard</u>	<u>Backpressure or backsiphonage Sizes 3/8" - 16"</u>	<u>ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1</u>
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1721	<u>Double check detector fire protection backflow prevention assemblies</u>	<u>Low hazard</u>	<u>Backpressure or backsiphonage Sizes 3/8" - 16"</u>	<u>ASSE 1048</u>
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1722	<u>Pressure vacuum breaker assembly</u>	<u>High or low hazard</u>	<u>Backsiphonage only Sizes 1/2" - 2"</u>	<u>ASSE 1020, CSA B64.1.2</u>
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1723	<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>
1724	<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>
1725	<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>
1726	<u>BACKFLOW PREVENTER PLUMBING DEVICES:</u>			
1727	<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>
1728	<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>
1729	<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>
1730	<u>Dual check valve type backflow preventers</u>	<u>Low hazard</u>	<u>Backpressure or backsiphonage</u> <u>Sizes 1/4" - 1"</u>	<u>ASSE 1024, CSA B64.6</u>



1731	<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>
1732	<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>
1733	<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>
1734	<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>
1735	<u>OTHER MEANS or METHODS:</u>			
1736	<u>Air gap</u>	<u>High or low hazard</u>	<u>Backsiphonage only</u>	<u>ASME A112.1.2</u>
1737	<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>
1738	<u>For SI: 1 inch = 25.4 mm</u>			
1739	<u>a. Low Hazard - See Pollution (Section 202), High Hazard - See Contamination (Section 202)</u>			
1740	<u>b. See Backpressure (Section 202), See Backpressure, low head (Section 202), See Backsiphonage (Section 202)</u>			
1741	<u>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."</u>			

1742           (8) In IPC, Section 608.3, the word "and" after the word "contamination" is deleted and  
 1743 replaced with a comma and the words "and pollution" are added after the word "contamination"  
 1744 in the first sentence.

1745           (9) In IPC, Section 608.5, the words "with the potential to create a condition of either

1746 contamination or pollution or" are added after the word "substances".

1747 [~~(8)~~] (10) In IPC, Section 608.6, the following sentence is added at the end of the  
1748 paragraph: "Any connection between potable water piping and sewer-connected waste shall be  
1749 protected by an air gap in accordance with Section 608.13.1."

1750 [~~(9)~~] (11) IPC, Section 608.7, is deleted[-] and replaced with the following: "608.7  
1751 Stop and Waste Valves installed below grade. Combination stop-and-waste valves shall be  
1752 permitted to be installed underground or below grade. Freeze proof yard hydrants that drain  
1753 the riser into the ground are considered to be stop-and-waste valves and shall be permitted."

1754 [~~(10)~~] (12) In IPC, Section 608.11, the following sentence is added at the end of the  
1755 paragraph: "The coating and installation shall conform to NSF Standard 61 and application of  
1756 the coating shall comply with the manufacturer's instructions."

1757 [~~(11)~~] (13) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3  
1758 Backflow preventer with intermediate atmospheric vent. Backflow preventers with  
1759 intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3. These  
1760 devices shall be permitted to be installed on residential boilers only, without chemical  
1761 treatment, where subject to continuous pressure conditions. The relief opening shall discharge  
1762 by air gap and shall be prevented from being submerged."

1763 [~~(12)~~] (14) IPC, Section 608.13.4, is deleted.

1764 [~~(13)~~] (15) IPC, Section 608.13.9, is deleted[-] and replaced with the following:  
1765 "608.13.9 Chemical dispenser backflow devices. Backflow devices for chemical dispensers  
1766 shall comply with Section 608.16.7."

1767 [~~(14)~~] (16) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3  
1768 Protection by a backflow preventer with intermediate atmospheric vent. Connections to  
1769 residential boilers only, without chemical treatment, shall be protected by a backflow preventer  
1770 with an intermediate atmospheric vent."

1771 [~~(15)~~] (17) IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4  
1772 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type  
1773 or pressure-type vacuum breakers. [~~The critical level of the atmospheric vacuum breaker shall~~

1774 ~~be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device. The~~  
1775 ~~critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm)~~  
1776 ~~above the flood level rim of the fixture or device.] Vacuum breakers shall not be installed~~  
1777 ~~under exhaust hoods or similar locations that will contain toxic fumes or vapors. Fill valves~~  
1778 ~~shall be set in accordance with Section 425.3.1. [~~Vacuum breakers shall not be installed under~~~~  
1779 ~~~~exhaust hoods or similar locations that will contain toxic fumes or vapors.] Atmospheric~~  
1780 ~~Vacuum Breakers - The critical level of the atmospheric vacuum breaker shall be set a~~  
1781 ~~minimum of 6 inches (152 mm) above the flood level rim of the fixture or device.~~  
1782 Pipe-applied vacuum breakers shall be installed not less than 6 inches (152 mm) above the  
1783 flood level rim of the fixture, receptor, or device served. No valves shall be installed  
1784 downstream of the atmospheric vacuum breaker. Pressure Vacuum Breaker - The critical level  
1785 of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm) above the flood  
1786 level of the fixture or device."~~

1787        ~~[(16)]~~ (18) In IPC, Section 608.15.4.2, the following is added after the first sentence:  
1788 "Add-on-backflow prevention devices shall be non-removable. In climates where freezing  
1789 temperatures occur, a listed self-draining frost proof hose bibb with an integral backflow  
1790 preventer shall be used."

1791        ~~[(17)]~~ (19) In IPC, Section 608.16.2, ~~[the first sentence of the paragraph]~~ is deleted and  
1792 replaced as follows: "608.16.2 Connections to boilers. The potable ~~[water supply to the~~  
1793 ~~residential boiler only, without chemical treatment, shall be]~~ supply to a boiler shall be  
1794 protected by an air gap or a reduced pressure principle backflow preventer, complying with  
1795 ASSE 1013, CSA B64.4 or AWWA C511.

1796 Exception: The potable supply to a residential boiler without chemical treatment may be  
1797 equipped with a backflow preventer with an intermediate atmospheric vent complying with  
1798 ASSE 1012 or CSA CAN/CSA-B64.3."

1799        ~~[(18)]~~ (20) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3  
1800 Heat exchangers. Heat exchangers shall be separated from potable water by double-wall  
1801 construction. An air gap open to the atmosphere shall be provided between the two walls.

1802 Exceptions:

1803 1. Single wall heat exchangers shall be permitted when all of the following conditions are met:

1804 a. It utilizes a heat transfer medium of potable water or contains only substances which are  
1805 recognized as safe by the United States Food and Drug Administration (FDA);

1806 b. The pressure of the heat transfer medium is maintained less than the normal minimum  
1807 operating pressure of the potable water system; and

1808 c. The equipment is permanently labeled to indicate only additives recognized as safe by the  
1809 FDA shall be used.

1810 2. Steam systems that comply with paragraph 1 above.

1811 3. Approved listed electrical drinking water coolers."

1812 [~~(19)~~] (21) In IPC, Section 608.16.4.1, a new exception is added as follows:

1813 "Exception: All class 1 and 2 systems containing chemical additives consisting of strictly  
1814 glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be protected against  
1815 backflow with a double check valve assembly. Such systems shall include written certification  
1816 of the chemical additives at the time of original installation and service or maintenance."

1817 [~~(20)~~] (22) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7

1818 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the  
1819 water supply system shall be protected against backflow in accordance with Section 608.13.1,

1820 Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8. Chemical

1821 dispensers shall connect to a separate dedicated water supply separate from any sink faucet."

1822 [~~(21)~~] (23) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8

1823 Portable cleaning equipment. Where the portable cleaning equipment connects to the water  
1824 distribution system, the water supply system shall be protected against backflow in accordance

1825 with Section 608.13.1, Section 608.13.2 or Section 608.13.8."

1826 [~~(22)~~] (24) A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic

1827 and coin operated car washes. The water supply to an automatic or coin operated car wash

1828 shall be protected in accordance with Section 608.13.1 or Section 608.13.2."

1829 [~~(23)~~] (25) IPC, Section 608.17, is deleted[-] and replaced with the following: "608.17

1830 Protection of individual water supplies. See Section 602.3 for requirements."

1831 Section 21. Section **15A-3-307** is amended to read:

1832 **15A-3-307. Amendments to Chapter 7 of IPC.**

1833 (1) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer  
1834 required. Every building in which plumbing fixtures are installed and all premises having  
1835 drainage piping shall be connected to a public sewer where the sewer is accessible and is  
1836 within 300 feet of the property line in accordance with Utah Code, Section 10-8-38; or an  
1837 approved private sewage disposal system in accordance with Utah Administrative Code, Rule  
1838 R317-4, as administered by the Department of Environmental Quality, Division of Water  
1839 Quality."

1840 (2) In IPC, Section 712.3.3.1, the following words are added before the word "or":  
1841 "stainless steel, cast iron, galvanized steel".

1842 Section 22. Section **15A-3-309** is amended to read:

1843 **15A-3-309. Amendments to Chapter 9 of IPC.**

1844 [~~(1)~~] IPC, Section 901.3, is deleted and replaced with the following: "901.3 Chemical  
1845 waste vent system. ~~The vent system for a chemical waste system shall be independent of the~~  
1846 ~~sanitary vent system and shall terminate separately through the roof to the open air or to an air~~  
1847 ~~admittance valve provided at least one chemical waste vent in the system terminates separately~~  
1848 ~~through the roof to the open air."~~]

1849 [~~(2)~~] (1) In IPC, Section [~~904.1~~] 903.1, when the number of inches is to be specified,  
1850 "12 inches (304.8mm)" is inserted.

1851 [~~(3)~~] (2) In IPC, Section [~~904.6~~] 903.6, the following sentence is added at the end of  
1852 the paragraph: "Vents extending through the wall shall terminate not less than 12 inches from  
1853 the wall with an elbow pointing downward."

1854 [~~(4)~~] (3) In IPC, Section 905.4, the following sentence is added at the end of the  
1855 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
1856 [~~and~~], floor sink, and bath tub installations when installed in accordance with Sections 702.2,  
1857 905.2 and 905.3 and provided with a wall clean out."

1858           ~~[(5) In IPC, Section 917.8, a new exception is added as follows: "Exception: Air~~  
1859 ~~admittance valves shall be permitted in non-neutralized special waste systems provided that~~  
1860 ~~they conform to the requirements in Sections 901.3 and 702.5, are tested to ASTM F1412, and~~  
1861 ~~are certified by ANSI/ASSE."]~~

1862           Section 23. Section **15A-3-310** is amended to read:

1863           **15A-3-310. Amendments to Chapter 10 of IPC.**

1864           (1) In IPC, Section 1002.4, the following is added at the end of the paragraph:

1865 "Approved Means of Maintaining Trap Seals. Approved means of maintaining trap seals  
1866 include the following, but are not limited to the methods cited:

1867           (a) ~~[Listed Trap Seal Primer]~~ A listed trap seal primer conforming to ASSE 1018 and  
1868 ASSE 1044

1869           (b) A hose bibb or bibbs within the same room

1870           (c) Drainage from an untrapped lavatory discharging to the tailpiece of those fixture  
1871 traps which require priming. All fixtures shall be in the same room and on the same floor level  
1872 as the trap primer

1873           (d) Barrier type floor drain trap seal protection device meeting ASSE Standard 1072

1874           (e) Deep seal p-trap".

1875           Section 24. Section **15A-3-311** is amended to read:

1876           **15A-3-311. Amendments to Chapter 11 of IPC.**

1877           (1) IPC, Section 1104.2, is deleted and replaced with the following: "1104.2

1878 Combining storm and sanitary drainage prohibited. The combining of sanitary and storm  
1879 drainage systems is prohibited."

1880           (2) IPC, Section ~~[1108]~~ 1109, is deleted.

1881           Section 25. Section **15A-3-313** is amended to read:

1882           **15A-3-313. Amendments to Chapter 13 of IPC.**

1883           ~~[IPC, Chapter 13, is not amended.]~~

1884           (1) In IPC, Section 1301.1, all words after the word "urinals" are deleted and the  
1885 following sentence is added at the end: "Gray water recycling systems for subsurface landscape

1886 irrigation shall conform with UAC R317-401 Gray Water Systems."

1887       (2) A new IPC, Section 1301.1.1, is added as follows: "1301.1.1 Recording. The  
1888 existence of a gray water recycling system shall be recorded on the deed of ownership for that  
1889 property. The certificate of occupancy shall not be issued until the documentation of the  
1890 recording required under this section is completed by the owner."

1891       (3) In IPC, Section 1301.2, the words "and systems for subsurface landscape irrigation  
1892 shall comply with Section 1303" are deleted.

1893       (4) IPC, Section 1301.6, is deleted and replaced with the following: "1301.6 Potable  
1894 water connections. The potable water supply to any building utilizing a gray water recycling  
1895 system shall be protected against backflow by a reduced pressure backflow prevention  
1896 assembly installed in accordance with Section 608."

1897       (5) In IPC, Section 1301.7, the following is added at the end of the sentence: "and other  
1898 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible;  
1899 without objectionable odor; non-highly pigmented; and will not interfere with the operation of  
1900 the sewer treatment facility."

1901       (6) In IPC, Section 1302.3, in the second sentence, the following is added between the  
1902 words "backflow" and "in": "by a reduced pressure backflow prevention assembly or an air gap  
1903 installed".

1904       (7) IPC, Section 1303, is deleted and replaced with the following: "Section 1303  
1905 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS. Gray water recycling systems  
1906 utilized for subsurface irrigation for single family residences shall comply with the  
1907 requirements of UAC R317-401, Gray Water Systems. Gray water recycling systems utilized  
1908 for subsurface irrigation for other occupancies shall comply with UAC R317-3, Design  
1909 Requirements for Wastewater Collection, Treatment and Disposal and UAC R317-4, Onsite  
1910 Waterwaste Systems."

1911       Section 26. Section **15A-3-314** is amended to read:

1912       **15A-3-314. Amendments to Chapter 14 of IPC.**

1913       (1) In IPC, Chapter 14, the following referenced standard is added under ASSE:

1914	"Standard reference number	Title	Referenced in code section number
1915	1072-2007	Performance Requirements for Barrier Type Floor Drain Trap Seal Protection Devices	1004.2"

1916 (2) In IPC, Chapter 14, the following referenced standard is added:

1917	"Standard reference number	Title	Referenced in code section number
1918	USC-FCCCHR [9 <sup>th</sup> ] 10 <sup>th</sup> 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"

1919 ~~[(3) IPC, Appendix C, is deleted and replaced with the following Appendix C, Gray~~  
 1920 ~~Water Recycling Systems, which may be adopted by local jurisdictions only as provided under~~  
 1921 ~~the State Construction Code: "Appendix C Gray Water Recycling Systems]~~  
 1922 ~~[Note: Section 301.3 of this code requires all plumbing fixtures that receive water or waste to~~  
 1923 ~~discharge to the sanitary drainage system of the structure. In order to allow for the utilization~~  
 1924 ~~of a gray water system, Section 301.3 should be revised to read as follows:]~~  
 1925 ~~[In jurisdictions which have adopted this Appendix C as amended as a local amendment as~~  
 1926 ~~provided herein, Section 301.3 of the IPC is deleted and replaced with the following:]~~  
 1927 ~~[301.3 Connections to drainage system. All plumbing fixtures, drains, appurtenances, and~~  
 1928 ~~appliances used to receive or discharge liquid wastes or sewage shall be directly connected to~~  
 1929 ~~the sanitary drainage system of the building or premises, in accordance with the requirements~~  
 1930 ~~of this code. This section shall not be construed to prevent indirect waste systems required by~~  
 1931 ~~Chapter 8.]~~  
 1932 ~~[Exception: Bathtubs, showers, lavatories, clothes washers, laundry trays, and approved clear~~



1933 ~~water wastes shall not be required to discharge to the sanitary drainage system where such~~  
1934 ~~fixtures discharge to an approved gray water system for flushing of water closets and urinals or~~  
1935 ~~for subsurface landscape irrigation.]~~

1936 ~~[SECTION C101 GENERAL]~~

1937 ~~[C101.1 Scope. The provisions of this appendix shall govern the materials, design,~~  
1938 ~~construction, and installation of gray water systems for flushing of water closets and urinals~~  
1939 ~~(see Figure 2).]~~

1940 ~~[C101.2 Recording. The existence of a gray water recycling system shall be recorded on the~~  
1941 ~~deed of ownership for that property.]~~

1942 ~~[C101.3 Definition. The following term shall have the meaning shown herein.]~~

1943 ~~[GRAY WATER. Waste discharged from lavatories, bathtubs, showers, clothes washers,~~  
1944 ~~laundry trays, and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable;~~  
1945 ~~non-combustible; without objectionable odors; non-highly pigmented; and will not interfere~~  
1946 ~~with the operation of the sewer treatment facility.]~~

1947 ~~[C101.4 Permits. Permits shall be required in accordance with Section 106 and may also be~~  
1948 ~~required by the local health department.]~~

1949 ~~[C101.5 Installation. In addition to the provisions of Section C101, systems for flushing of~~  
1950 ~~water closets and urinals shall comply with Section C102. Except as provided for in Appendix~~  
1951 ~~C, all systems shall comply with the provisions of the International Plumbing Code.]~~

1952 ~~[C101.6 Materials. Above-ground drain, waste, and vent piping for gray water systems shall~~  
1953 ~~conform to one of the standards listed in Table 702.1. Gray water underground building~~  
1954 ~~drainage and vent pipe shall conform to one of the standards listed in Table 702.2.]~~

1955 ~~[C101.7 Tests. Drain, waste, and vent piping for gray water systems shall be tested in~~  
1956 ~~accordance with Section 312.]~~

1957 ~~[C101.8 Inspections. Gray water systems shall be inspected in accordance with Section 107.]~~

1958 ~~[C101.9 Potable water connections. The potable water supply to any building utilizing a gray~~  
1959 ~~water recycling system shall be protected against backflow by a reduced pressure principle~~  
1960 ~~backflow preventer installed in accordance with this Code.]~~

1961 [~~C101.10 Waste water connections. Gray water recycling systems shall receive only the waste~~  
1962 ~~discharge of bathtubs, showers, lavatories, clothes washers, or laundry trays, and other clear~~  
1963 ~~water wastes which have a pH of 6.0 to 9.0; are non-flammable, non-combustible, without~~  
1964 ~~objectionable odors, non-highly pigmented; and will not interfere with the operation of the~~  
1965 ~~sewer treatment facility.]~~

1966 [~~C101.11 Collection reservoir. Gray water shall be collected in an approved reservoir~~  
1967 ~~constructed of durable, nonabsorbent, and corrosion-resistant materials. The reservoir shall be~~  
1968 ~~a closed and gas-tight vessel. Access openings shall be provided to allow inspection and~~  
1969 ~~cleaning of the reservoir interior.]~~

1970 [~~C101.12 Filtration. Gray water entering the reservoir shall pass through an approved cartridge~~  
1971 ~~filter having a design flow rate of less than 0.375 gallons per minute per square foot of~~  
1972 ~~effective filter area, or a sand or diatomaceous earth filter designed to handle the anticipated~~  
1973 ~~volume of water.]~~

1974 [~~C101.12.1 Required valve. A full-open valve shall be installed downstream of the last fixture~~  
1975 ~~connection to the gray water discharge pipe before entering the required filter.]~~

1976 [~~C101.13 Overflow. The collection reservoir shall be equipped with an overflow pipe having~~  
1977 ~~the same or larger diameter as the influent pipe for the gray water. The overflow pipe shall be~~  
1978 ~~trapped and indirectly connected to the sanitary drainage system.]~~

1979 [~~C101.14 Drain. A drain shall be located at the lowest point of the collection reservoir and~~  
1980 ~~shall be indirectly connected to the sanitary drainage system. The drain shall be the same~~  
1981 ~~diameter as the overflow pipe required in Section C101.12.]~~

1982 [~~C101.15 Vent required. The reservoir shall be provided with a vent sized in accordance with~~  
1983 ~~Chapter 9 and based on the diameter of the reservoir influent pipe.]~~

1984 [~~SECTION C102 SYSTEMS FOR FLUSHING WATER CLOSETS AND URINALS]~~

1985 [~~C102.1 Collection reservoir. The holding capacity of the reservoir shall be a minimum of~~  
1986 ~~twice the volume of water required to meet the daily flushing requirements of the fixtures~~  
1987 ~~supplied with gray water, but not less than 50 gallons (189 L). The reservoir shall be sized to~~  
1988 ~~limit the retention time of gray water to a maximum of 72 hours.]~~

1989 [~~C102.2 Disinfection. Gray water shall be disinfected by an approved method that employs  
1990 one or more disinfectants such as chlorine, iodine, or ozone that is recommended for use with  
1991 the pipes, fittings, and equipment by the manufacturer of the pipe, fittings, and equipment. A  
1992 minimum of 1ppm residual free chlorine shall be maintained in the gray water recycling system  
1993 reservoir.]~~

1994 [~~C102.3 Makeup water. Potable water shall be supplied as a source of makeup water for the  
1995 gray water system. The potable water supply shall be protected against backflow by a reduced  
1996 pressure principle backflow preventer installed in accordance with this Code. There shall be a  
1997 full-open valve located on the makeup water supply line to the collection reservoir.]~~

1998 [~~C102.4 Coloring. The gray water shall be dyed blue or green with a food grade vegetable dye  
1999 before such water is supplied to the fixtures.]~~

2000 [~~C102.5 Materials. Distribution piping shall conform to one of the standards listed in Table  
2001 605.4.]~~

2002 [~~C102.6 Identification. Distribution piping and reservoirs shall be identified as containing  
2003 nonpotable water. Piping identification shall be in accordance with Section 608.8.]~~

2004 [~~SECTION C103 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS]~~

2005 [~~C103.1 Gray water recycling systems utilized for subsurface irrigation for single family  
2006 residences shall comply with the requirements of Utah Administrative Code, R317-401, Gray  
2007 Water Systems. Gray water recycling systems utilized for subsurface irrigation for other  
2008 occupancies shall comply with Utah Administrative Code, R317-3 Design Requirements for  
2009 Wastewater Collection, Treatment and Disposal Systems, and Utah Administrative Code,  
2010 R317-4, Onsite Wastewater Systems."]~~

2011 Section 27. Section **15A-3-401** is amended to read:

2012 **Part 4. Statewide Amendments to IMC**

2013 **15A-3-401. General provisions.**

2014 The following are adopted as amendments to the IMC to be applicable statewide:

2015 (1) In IMC, Section 202, the definition for "CONDITIONED SPACE" is deleted and  
2016 replaced with the following: "CONDITIONED SPACE. An area, room, or space enclosed

2017 within the building thermal envelope that is directly heated or cooled, or indirectly heated or  
2018 cooled by any of the following means:

- 2019 1. Openings directly into an adjacent conditioned space.
- 2020 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
- 2021 3. Un-insulated duct, piping or other heat or cooling source within the space."

2022 [(+)] (2) In IMC, Section 403, a new Section 403.8 is added as follows: "Retrospective  
2023 effect. Removal, alteration, or abandonment shall not be required, and continued use and  
2024 maintenance shall be allowed, for a ventilation system within an existing installation that  
2025 complies with the requirements of this Section 403 regardless of whether the ventilation system  
2026 satisfied the minimum ventilation rate requirements of prior law."

2027 (3) In IMC, Table 603.4, in the section "Round ducts and enclosed rectangular ducts",  
2028 the word "enclosed" is deleted; the words "14 inches or less" are deleted and replaced with  
2029 "over 8 inches but less than 15 inches"; the wording "8 inches or less" under duct size, "0.013"  
2030 under minimum thickness (in.), "30" under equivalent gage no., and "0.0159" under aluminum  
2031 minimum thickness (in.), are added; and the section "Exposed rectangular ducts" is deleted.

2032 (4) In IMC, Section 1004.2, the first sentence is deleted and replaced with the  
2033 following: "Boilers and pressure vessels in Utah are regulated by the Utah Labor Commission,  
2034 Division of Boiler, Elevator and Coal Mine Safety, except those located in private residences  
2035 or in apartment houses of less than five family units. Boilers shall be installed in accordance  
2036 with their listing and labeling, with minimum clearances as prescribed by the manufacturer's  
2037 installation instructions."

2038 (5) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".

2039 [(2)] (6) IMC, Section 1101.10, is deleted.

2040 Section 28. Section **15A-3-501** is amended to read:

2041 **Part 5. Statewide Amendments to IFGC**

2042 **15A-3-501. General provisions.**

2043 The following [is] are adopted as an amendment to the IFGC to be applicable  
2044 statewide~~[, in IFGC, Chapter 4, Section 401, General, a new section IFGC, Section 401.9, is];~~

2045           (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows: "[404.9]  
2046 404.9.1 Meter protection. Fuel gas services shall be in an approved location and/or provided  
2047 with structures designed to protect the fuel gas meter and surrounding piping from physical  
2048 damage, including falling, moving, or migrating ice and snow. If an added structure is used, it  
2049 must still provide access for service and comply with the IBC or the IRC."

2050           (2) IFGC, Section 409.5.3, is deleted.

2051           (3) In IFGC, Section 631.2, the following sentence is inserted before the first sentence:  
2052 "Boilers and pressure vessels in Utah are regulated by the Utah Labor Commission, Division of  
2053 Boiler, Elevator and Coal Mine Safety, except those located in private residences or in  
2054 apartment houses of less than five family units."

2055           Section 29. Section **15A-3-601** is amended to read:

**Part 6. Statewide Amendments to NEC**

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

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

2059           (1) The IRC provisions are adopted as the residential electrical standards applicable to  
2060 installations applicable under the IRC. All other installations shall comply with the adopted  
2061 NEC.

2062           (2) In NEC, Section 310.15(B)(7), the second sentence is deleted and replaced with the  
2063 following: "For application of this section, the main power feeder shall be the feeder(s)  
2064 between the main disconnect and the panelboard(s)."

2065           Section 30. Section **15A-3-801** is amended to read:

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

**Built Before June 15, 1976**

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

2069           Mobile homes built before June 15, 1976 that are subject to relocation, building  
2070 alteration, remodeling, or rehabilitation shall comply with the following:

2071           (1) Related to exits and egress windows:

2072           (a) Egress windows. The home has at least one egress window in each bedroom, or a

2073 window that meets the minimum specifications of the U.S. Department of Housing and Urban  
2074 Development's (HUD) Manufactured Homes Construction and Safety Standards (MHCSS)  
2075 program as set forth in 24 C.F.R. Parts 3280 and 3283, MHCSS 3280.106 and 3280.404 for  
2076 manufactured homes. These standards require the window to be at least 22 inches in the  
2077 horizontal or vertical position in its least dimension and at least five square feet in area. The  
2078 bottom of the window opening shall be no more than 36 inches above the floor, and the locks  
2079 and latches and any window screen or storm window devices that need to be operated to permit  
2080 exiting shall not be located more than 54 inches above the finished floor.

2081 (b) Exits. The home is required to have two exterior exit doors, located remotely from  
2082 each other, as required in MHCSS 3280.105. This standard requires that single-section homes  
2083 have the doors no less than 12 feet, center-to-center, from each other, and multisection home  
2084 doors no less than 20 feet center-to-center from each other when measured in a straight line,  
2085 regardless of the length of the path of travel between the doors. One of the required exit doors  
2086 must be accessible from the doorway of each bedroom and no more than 35 feet away from any  
2087 bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high clear  
2088 opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear opening. Each  
2089 exterior door other than screen/storm doors shall have a key-operated lock that has a passage  
2090 latch; locks shall not require the use of a key or special tool for operation from the inside of the  
2091 home.

2092 (2) Related to flame spread:

2093 (a) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or  
2094 water heater shall have an interior finish with a flame-spread rating not exceeding 25. Sealants  
2095 and other trim materials two inches or less in width used to finish adjacent surfaces within  
2096 these spaces are exempt from this provision, provided all joints are supported by framing  
2097 members or materials with a flame spread rating of 25 or less. Combustible doors providing  
2098 interior or exterior access to furnace and water heater spaces shall be covered with materials of  
2099 limited combustibility (i.e., 5/16-inch gypsum board, etc.), with the surface allowed to be  
2100 interrupted for louvers ventilating the space. However, the louvers shall not be of materials of

2101 greater combustibility than the door itself (i.e., plastic louvers on a wooden door). Reference  
2102 MHCSS 3280.203.

2103 (b) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range  
2104 (surfaces include vertical surfaces between the range top and overhead cabinets, the ceiling, or  
2105 both) shall have a flame-spread rating not exceeding 50, as required by MHCSS 3280.203.  
2106 Backsplashes not exceeding six inches in height are exempted. Ranges shall have a vertical  
2107 clearance above the cooking top of not less than 24 inches to the bottom of combustible  
2108 cabinets, as required by MHCSS 3280.204(e).

2109 (3) Related to smoke detectors:

2110 (a) Location. A smoke detector shall be installed on any ceiling or wall in the hallway  
2111 or space communicating with each bedroom area between the living area and the first bedroom  
2112 door, unless a door separates the living area from that bedroom area, in which case the detector  
2113 shall be installed on the living-area side, as close to the door as practicable, as required by  
2114 MHCSS 3280.208. Homes with bedroom areas separated by anyone or combination of  
2115 common-use areas such as a kitchen, dining room, living room, or family room (but not a  
2116 bathroom or utility room) shall be required to have one detector for each bedroom area. When  
2117 located in the hallways, the detector shall be between the return air intake and the living areas.

2118 (b) Switches and electrical connections. Smoke detectors shall have no switches in the  
2119 circuit to the detector between the over-current protection device protecting the branch circuit  
2120 and the detector. The detector shall be attached to an electrical outlet box and connected by a  
2121 permanent wiring method to a general electrical circuit. The detector shall not be placed on the  
2122 same branch circuit or any circuit protected by a ground-fault circuit interrupter.

2123 (4) Related to solid-fuel-burning stoves/fireplaces:

2124 (a) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built  
2125 fireplaces, and fireplace stoves may be used in manufactured homes, provided that they are  
2126 listed for use in manufactured homes and installed according to their listing/manufacturer's  
2127 instructions and the minimum requirements of MHCSS 3280.709(g).

2128 (b) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped with

2129 an integral door or shutters designed to close the fire chamber opening and shall include  
2130 complete means for venting through the roof, a combustion air inlet, a hearth extension, and  
2131 means to securely attach the unit to the manufactured home structure.

2132 (i) Chimney. A listed, factory-built chimney designed to be attached directly to the  
2133 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination device  
2134 and spark arrester, shall be required. The chimney shall extend at least three feet above the part  
2135 of the roof through which it passes and at least two feet above the highest elevation of any part  
2136 of the manufactured home that is within 10 feet of the chimney.

2137 (ii) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be  
2138 installed in accordance with the terms of listings and the manufacturer's instruction. A  
2139 combustion-air inlet shall conduct the air directly into the fire chamber and shall be designed to  
2140 prevent material from the hearth from dropping on the area beneath the manufactured home.

2141 (iii) Hearth. The hearth extension shall be of noncombustible material that is a  
2142 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight inches  
2143 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend over the  
2144 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.

2145 (5) Related to electrical wiring systems:

2146 (a) Testing. All electrical systems shall be tested for continuity in accordance with  
2147 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for operation, to  
2148 demonstrate that all equipment is connected and in working order; and given a polarity check,  
2149 to determine that connections are proper.

2150 (b) 5.2 Protection. The electrical system shall be properly protected for the required  
2151 amperage load. If the unit wiring employs aluminum conductors, all receptacles and switches  
2152 rated at 20 amperes or less that are directly connected to the aluminum conductors shall be  
2153 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the  
2154 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals (copper/aluminum  
2155 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.

2156 (6) Related to replacement furnaces and water heaters:



2157 (a) Listing. Replacement furnaces or water heaters shall be listed for use in a  
2158 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall be  
2159 listed for use with the furnace or water heater.

2160 (b) Securement and accessibility. The furnace and water heater shall be secured in  
2161 place to avoid displacement. Every furnace and water heater shall be accessible for servicing,  
2162 for replacement, or both as required by MHCSS 3280.709(a).

2163 (c) Installation. Furnaces and water heaters shall be installed to provide complete  
2164 separation of the combustion system from the interior atmosphere of the manufactured home,  
2165 as required by MHCSS.

2166 (i) Separation. The required separation may be achieved by the installation of a  
2167 direct-vent system (sealed combustion system) furnace or water heater or the installation of a  
2168 furnace and water heater venting and combustion systems from the interior atmosphere of the  
2169 home. There shall be no doors, grills, removable access panels, or other openings into the  
2170 enclosure from the inside of the manufactured home. All openings for ducts, piping, wiring,  
2171 etc., shall be sealed.

2172 (ii) Water heater. The floor area in the area of the water heater shall be free from  
2173 damage from moisture to ensure that the floor will support the weight of the water heater.

2174 **Section 31. Repealer.**

2175 This bill repeals:

2176 **Section 15A-4-302, Amendments to IPC applicable to Salt Lake City.**

2177 **Section 15A-4-304, Amendments to IPC applicable to Grand County.**

2178 **Section 15A-4-305, Amendments to IPC applicable to City of Moab.**

2179 **Section 15A-4-306, Amendments to IPC applicable to Murray City.**

2180 **Section 15A-4-307, Amendments to IPC applicable to Salt Lake County.**

2181 **Section 32. Effective date.**

2182 This bill takes effect on July 1, 2013.