

1 **Construction Code Amendments**

2026 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Thomas W. Peterson**

Senate Sponsor: Evan J. Vickers

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**LONG TITLE****Committee Note:**

The Business and Labor Interim Committee recommended this bill.

Legislative Vote: 16 voting for 0 voting against 4 absent

**General Description:**

This bill modifies the State Construction Code.

**Highlighted Provisions:**

This bill:

- ▶ amends the State Construction Code to address updated standards in the:
  - International Building Code;
  - International Energy Conservation Code;
  - International Existing Building Code;
  - International Fuel Gas Code;
  - International Mechanical Code;
  - International Plumbing Code; and
  - International Residential Code; and
- ▶ makes technical and conforming changes.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

None

**Utah Code Sections Affected:****AMENDS:**

15A-2-103, as last amended by Laws of Utah 2025, Chapter 532

15A-3-102, as last amended by Laws of Utah 2024, Chapter 15

15A-3-103, as last amended by Laws of Utah 2023, Chapters 209, 327

15A-3-104, as last amended by Laws of Utah 2023, Chapter 209

15A-3-105, as last amended by Laws of Utah 2025, Chapter 532

31       **15A-3-106**, as last amended by Laws of Utah 2016, Chapter 249  
32       **15A-3-107**, as last amended by Laws of Utah 2023, Chapter 209  
33       **15A-3-108**, as last amended by Laws of Utah 2023, Chapter 209  
34       **15A-3-110**, as last amended by Laws of Utah 2019, Chapter 20  
35       **15A-3-202**, as last amended by Laws of Utah 2025, Chapter 532  
36       **15A-3-203**, as last amended by Laws of Utah 2025, First Special Session, Chapter 15  
37       **15A-3-204**, as last amended by Laws of Utah 2024, Chapter 505  
38       **15A-3-205**, as last amended by Laws of Utah 2024, Chapter 505  
39       **15A-3-302**, as last amended by Laws of Utah 2023, Chapter 209  
40       **15A-3-303**, as last amended by Laws of Utah 2023, Chapter 209  
41       **15A-3-304**, as last amended by Laws of Utah 2023, Chapter 209  
42       **15A-3-306**, as last amended by Laws of Utah 2023, Chapter 209  
43       **15A-3-313**, as last amended by Laws of Utah 2023, Chapter 209  
44       **15A-3-315**, as last amended by Laws of Utah 2023, Chapter 209  
45       **15A-3-401**, as last amended by Laws of Utah 2024, Chapter 505  
46       **15A-3-402**, as last amended by Laws of Utah 2024, Chapter 15  
47       **15A-3-501**, as last amended by Laws of Utah 2019, Chapter 20  
48       **15A-3-701**, as last amended by Laws of Utah 2024, Chapter 505  
49       **15A-3-801**, as last amended by Laws of Utah 2024, Chapter 505  
50       **15A-3-1001**, as last amended by Laws of Utah 2023, Chapter 209

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

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

54           **15A-2-103 . Specific editions adopted of construction code of a nationally  
55           recognized code authority.**

56           (1) Subject to the other provisions of this part, the following construction codes are  
57           incorporated by reference, and together with the amendments specified in Chapter 3,  
58           Statewide Amendments Incorporated as Part of State Construction Code, and Chapter 4,  
59           Local Amendments Incorporated as Part of State Construction Code, are the  
60           construction standards to be applied to building construction, alteration, remodeling, and  
61           repair, and in the regulation of building construction, alteration, remodeling, and repair  
62           in the state:

63           (a) the [2024] 2024 edition of the International Building Code, including Appendices C  
64           and J, issued by the International Code Council;

65 (b) the 2021 edition of the International Residential Code, issued by the International  
66 Code Council;

67 (c) Appendix AQ of the 2021 edition of the International Residential Code, issued by the  
68 International Code Council;

69 (d) the [2021] 2024 edition of the International Plumbing Code, issued by the  
70 International Code Council;

71 (e) the [2021] 2024 edition of the International Mechanical Code, issued by the  
72 International Code Council;

73 (f) the [2021] 2024 edition of the International Fuel Gas Code, issued by the International  
74 Code Council;

75 (g) the 2023 edition of the National Electrical Code, issued by the National Fire  
76 Protection Association;

77 (h) the [2021] 2024 edition of the International Energy Conservation Code, issued by the  
78 International Code Council;

79 (i) the [2021] 2024 edition of the International Existing Building Code, issued by the  
80 International Code Council;

81 (j) subject to Subsection 15A-2-104(2), the HUD Code;

82 (k) subject to Subsection 15A-2-104(1), Appendix AE of the 2021 edition of the  
83 International Residential Code, issued by the International Code Council;

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

87 (m) subject to Subsection (3), for standards and guidelines pertaining to plaster on a  
88 historic property, as defined in Section 9-8a-302, the U.S. Department of the Interior  
89 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic  
90 Buildings;

91 (n) the residential provisions of the 2021 edition of the International Swimming Pool  
92 and Spa Code, issued by the International Code Council; and

93 (o) Modular Building Institute Standards 1200 and 1205, issued by the International  
94 Code Council, except as modified by provisions of this title governing modular units.

95 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire Control,  
96 the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,  
97 issued by the International Code Council, with the alternatives or amendments approved  
98 by the Utah Division of Forestry, Fire, and State Lands, as a construction code that may

99 be adopted by a local compliance agency by local ordinance or other similar action as a  
100 local amendment to the codes listed in this section.

101 (3) The standards and guidelines described in Subsection (1)(m) apply only if:

102 (a) the owner of the historic property receives a government tax subsidy based on the  
103 property's status as a historic property;  
104 (b) the historic property is wholly or partially funded by public money; or  
105 (c) the historic property is owned by a government entity.

106 Section 2. Section **15A-3-102** is amended to read:

107 **15A-3-102 . Amendments to Chapters 1 through 3 of IBC.**

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

109 (2) In IBC, Section 110, a new section is added as follows:

110 "[-]110.3.13, Weather-resistant exterior wall envelope. An inspection shall be  
111 made of the weather-resistant exterior wall envelope as required by Section 1404.2, and  
112 flashing as required by Section 1404.4 to prevent water from entering the  
113 weather-resistive barrier."

114 (3) IBC, Section 115.1, is deleted and replaced with the following:

115 "115.1 Authority. Whenever the building official finds any work regulated by this  
116 code being performed in a manner either contrary to the provisions of this code or other  
117 pertinent laws or ordinances or is dangerous or unsafe, the building official is authorized  
118 to stop work."

119 (4) In IBC, Section 202, the following definition is added for Ambulatory Surgical Center:

120 "AMBULATORY SURGICAL CENTER. A building or portion of a building  
121 licensed by the Department of Health and Human Services where procedures are  
122 performed that may render patients incapable of self preservation where care is less than  
123 24 hours. See ~~[Utah Administrative Code]~~ Utah Administrative Code, R432-13."

124 (5) In IBC, Section 202, the definition for "[Approved] APPROVED" is modified by adding  
125 the words "or independent third-party licensed engineer or architect and submitted to the  
126 building official" after the word "official."

127 (6) In IBC, Section 202, the definition for "[Approved Agency] APPROVED AGENCY" is  
128 modified by deleting the words "where such agency has been approved by the building  
129 official."

130 (7) In IBC, Section 202, the definition for "[Approved Fabricator] APPROVED  
131 FABRICATOR" is modified by adding the words "or approved by the state of Utah or a  
132 licensed engineer" after the word "code."

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

135 (9) In IBC, Section 202, the following definition is added for Assisted Living Facility,  
136 Residential Treatment and Support:

137 "ASSISTED LIVING FACILITY, RESIDENTIAL TREATMENT AND SUPPORT. A  
138 residential facility that provides a group living environment for four or more residents licensed  
139 by the Department of Health and Human Services and provides a protected living arrangement  
140 for ambulatory, non-restrained persons who are capable of achieving mobility sufficient to exit  
141 the facility without the physical assistance of another person.

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

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

150 (i) Physically disabled but able to direct his or her own care; or  
151 (ii) Cognitively impaired or physically disabled but able to evacuate from the facility, or to  
152 a zone or area of safety, with the physical assistance of one person.

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

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

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

159 (10) In IBC, Section 202, the following definition is added for ballistic glass:

160 "BALLISTIC GLASS. Glass certified at a minimum level of:

161 (i) Underwriters Laboratories Standard UL752-23, Standard for Bullet-Resisting  
162 Equipment, Threat Level UL-RF-E from Table C1 (Legacy Level 7) (2023); or  
163 (ii) ASTM F3279-24, Standard Test Method for Ballistic Resistant Security Glazing  
164 Materials, Threat and Performance Level 4, Ballistic Test Identity (BTI) R1-T1-C5-21  
165 under Table 1, Ballistic Criteria (2021)."

166 (11) In IBC, Section 202, the following definition is added for ~~[Child Care Facility]~~ child

167 care facility:

168 "CHILD CARE FACILITY. A facility where care and supervision is provided for [  
169 ~~four~~] five or more children for less than 24 hours a day and for direct or indirect  
170 compensation in place of care ordinarily provided in their home."

171 [(11)] (12) In IBC, Section 202, the definition for " [A] [Record Drawings] RECORD  
172 DRAWINGS" is modified by deleting the words "a fire alarm system" and replacing  
173 them with "any fire protection system."

174 [(12)] (13) In IBC, Section 202, the following definition is added for security glazing:

175 "SECURITY GLAZING. A clear or tinted durable material applied to glass doors  
176 and windows that enhances the structural integrity of the glass by preventing it from  
177 shattering and falling to the ground when impacted by an object and meets the minimum  
178 standard established by:

179 (i) ASTM F3561, Standard Test Method for Forced-Entry-Resistance of Fenestration  
180 Systems After Simulated Active Shooter Attack, minimum level 3 of Table 2, Potential  
181 Energy of Impactor and Drop Height (2023); or

182 (ii) ANSI Z97.1-15(R20) American National Standard for safety glazing materials  
183 used in buildings safety performance specifications and methods of test, and must meet  
184 the durability requirements of Sections 5.3 and 5.4."

185 (14) In IBC, Section 304.1, the words "and technical colleges who also educate high school  
186 students as part of their student body" are added after the words "Educational  
187 occupancies for students above the 12th grade including higher education laboratories."

188 [(13)] (15) In IBC, Section 305, Sections 305.2 through 305.2.3 are deleted and replaced with  
189 the following:

190 "305.2 Group E, child day care facilities. This group includes buildings and structures or  
191 portions thereof occupied by [~~four~~] five or more children 2 years of age or older who receive  
192 educational, supervision, child care services or personal care services for fewer than 24 hours  
193 per day. See Section 429 Day Care, for special requirements for day care.

194 305.2.1 Within places of religious worship. Rooms and spaces within places of religious  
195 worship providing such day care during religious functions shall be classified as part of the  
196 primary occupancy.

197 305.2.2 Four or fewer children. A facility having four or fewer children receiving such  
198 day care shall be classified as part of the primary occupancy.

199 305.2.3 [Four or fewer children in a dwelling unit. A facility such as the above within a  
200 dwelling unit and having four or fewer children receiving such day care shall be classified as a

201 Group R-3 occupancy or shall comply with the International Residential Code] Child day care  
202 facilities ancillary to the main occupancy. A facility where any number of children receive  
203 such day care may be classified as an accessory occupancy if the area complies with Section  
204 508.2.

205 305.2.4 [Child day care -- residential child care certificate or a license. Areas used for  
206 child day care purposes with a residential child care certificate, as described in Utah  
207 Administrative Code, R430-50, Residential Certificate Child Care, or a residential child care  
208 license, as described in Utah Administrative Code, R430-90, Licensed Family Child Care, may  
209 be located in a Group R-2 or R-3 occupancy as provided in Sections 310.3 and 310.4 or shall  
210 comply with the International Residential Code in accordance with Section R101.2] Four or  
211 fewer children in a dwelling unit. A facility such as the above within a dwelling unit and  
212 having four or fewer children receiving such day care shall be classified as a Group R-3  
213 occupancy or shall comply with the International Residential Code.

214 305.2.5 [Child care centers. Each of the following areas may be classified as accessory  
215 occupancies, if the area complies with Section 508.2:  
216 1. Hourly child care center, as described in Utah Administrative Code, R381-60 Hourly  
217 Child Care Centers;

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

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

222 4. Commercial preschools, as described in Utah Administrative Code, R381-40,  
223 Commercial Preschool Programs."] Residential child day care. A residential certificate child  
224 care facility as described in Utah Administrative Code, R430-50, or a licensed family child  
225 care facility as described in Utah Administrative Code, R430-90, licensed by the Department  
226 of Health and Human Services shall be classified as a Group R-2 or R-3 occupancy, or shall  
227 comply with the International Residential Code."

228 [(14)] (16) In IBC, Table 307.1(1), footnote "d" is added to the row for Explosives, Division  
229 1.4G in the column titled STORAGE - Solid Pounds (cubic feet).

230 [(15)] (17) In IBC, Section 308.2, in the list of items under "This group shall include," the  
231 words "Type-I Large and Type-II Small, see Section 308.2.5" are added after "Assisted  
232 living facilities."

233 [(16)] (18) In IBC, Section 308.2.4, all of the words after the first International Residential  
234 Code are deleted.

235 [17] (19) A new IBC, Section 308.2.5, is added as follows:

236 "308.2.5 Assisted living facilities. A Type I, Large assisted living facility is classified as  
237 occupancy Group I-1, Condition 1. A Type II, Small assisted living facility is classified as  
238 occupancy Group I-1, Condition 2. See Section 202 for definitions."

239 [18] (20) IBC, Section 308.3, is deleted and replaced with the following:

240 "308.3 Institutional Group I-2. Institutional Group I-2 occupancy shall include buildings  
241 and structures used for medical care on a 24-hour basis for more than four persons who are  
242 incapable of self-preservation. This group shall include, but not be limited to the following:

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

244 [Child care facilities]

245 Foster care facilities

246 Detoxification facilities

247 Hospitals

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

249 Psychiatric hospitals"

250 [19] (21) In IBC, Section 308.3.2, [the number "five" is deleted and replaced with the  
251 number "four" in each location] all the wording following the word "Group" is deleted  
252 and replaced with the words "R-4 Condition 2."[.]

253 [20] (22) A new IBC, Section 308.3.3, is added as follows:

254 "308.3.3 Assisted living facilities. A Type-II, Large assisted living facility is classified  
255 as occupancy Group I-2, Condition 1. See Section 202 for definitions."

256 [21] (23) In IBC, Section 308.5, the words "more than five" are deleted and replaced with  
257 the words "five or more in each location."

258 [22] (24) IBC, Section 308.5.1, is deleted and replaced with the following:

259 "308.5.1 Classification as Group E. A child day care facility that provides care for five  
260 or more but not more than 100 children under two years of age, where the rooms in which the  
261 children are cared for are located on a level of exit discharge serving such rooms and each of  
262 these child care rooms has an exit door directly to the exterior, shall be classified as a Group E.  
263 See Section 429 for special requirements for Day Care."

264 [23] (25) In IBC, [Sections] Section 308.5.3[-and 308.5.4], the words "five or fewer" are  
265 deleted and replaced with the words "four or fewer" in each location and the following  
266 sentence is added at the end:

267 "See Section 429 for special requirements for Day Care."

268 (26) IBC, Section 308.5.4, is deleted and replaced with the following:

269        "308.5.4 Child day care facilities ancillary to the main occupancy. A facility  
270        where any number of children receive such day care may be classified as an accessory  
271        occupancy if the area complies with Section 508.2."

272        (27) A new IBC Section 308.5.5 is added as follows:

273        "308.5.5 Four or fewer persons receiving care in a dwelling-unit. A facility such  
274        as the above within a dwelling unit and having four or fewer persons receiving custodial  
275        care shall be classified as a Group R-3 occupancy or shall comply with the International  
276        Residential Code."

277        [{24}] (28) IBC, Section 310.4, is deleted and replaced with the following:

278        "310.4 Residential Group R-3. Residential Group R-3 occupancies [and single family  
279        dwellings complying with the International Residential Code] where the occupants are  
280        primarily permanent in nature, are children receiving child day care services, and are not  
281        classified as Group R-1, R-2, R-4 or I, including:

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

283        Buildings that do not contain more than two dwellings

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

286        Child day care facilities having four or fewer children receiving care in a dwelling  
287        Residential child day care facilities licensed by the Utah Department of Health and  
288        Human Services as a:

289        Residential certificate child care facility

290        Licensed family child care facility

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

292        Boarding houses (nontransient)

293        Convents

294        Dormitories

295        Fraternities and sororities

296        Monasteries

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

298        Boarding houses (transient)

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

300        [{25}] (29) IBC, Section 310.4.1, is deleted and replaced with the following:

301        "310.4.1 Care facilities within a dwelling. Care facilities, other than child care, for five  
302        or fewer persons receiving care that are within a single family dwelling are permitted to

303 comply with the International Residential Code. See Section 429 for special requirements for  
304 Child Day Care."

305 [(26)] (30) A new IBC Section 310.4.3 is added as follows:

306 ["] 310.4.3 Child Care. Areas used for child care purposes may be located in a residential  
307 dwelling unit under all of the following conditions and Section 429:

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

310 2. Use is approved by the Department of Health and Human Services, as enacted under  
311 the authority of the Utah Code, Title 26B, Chapter 2, Part 4, Child Care Licensing, and in any  
312 of the following categories:

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

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

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

316 [(27)] (31) A new IBC, Section 310.4.4, is added as follows:

317 "310.4.4 Assisted living facilities. Type I assisted living facilities with two to five  
318 residents are Limited Capacity facilities classified as a Residential Group R-3 occupancy  
319 or are permitted to comply with the International Residential Code. See Section 202 for  
320 definitions."

321 [(28)] (32) A new IBC, Section 310.4.5, is added as follows:

322 "310.4.5 Child day care facilities ancillary to the main occupancy. Child day care  
323 facilities may be classified as accessory occupancies if the area complies with Section  
324 508.2."

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

327 [(29)] (34) A new IBC, Section 310.5.3, is added as follows:

328 "310.5.3 Group R-4 Assisted living facility occupancy groups. The following  
329 occupancy groups shall apply to Assisted Living Facilities: Type II Assisted Living  
330 Facilities with two to five residents are Limited Capacity Facilities classified as a  
331 Residential Group R-4, Condition 2 occupancy. Type I assisted living facilities with six  
332 to [sixteen] 16 residents are Small Facilities classified as Residential Group R-4,  
333 Condition 1 occupancies. See Section 202 for definitions."

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

335 **15A-3-103 . Amendments to Chapters 4 through 6 of IBC.**

336 (1) IBC Section 403.5.5 is deleted.

337 (2) In IBC, Section 404.5, Exception 2.3 is added as follows:  
338        "2.3 The atrium does not contain any means of egress component above the two lowest  
339        stories."

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

342 (4) In IBC, Section 407.2.6, the words "and assisted living facility" are added in the title  
343        after the words "nursing home."

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

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

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

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

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

356 (8) In IBC, Section 407.11, a new exception is added as follows:

357        "Exception: An essential electrical system is not required in assisted living  
358        facilities."

359 (9) In IBC, Section 412.3.1, a new exception is added as follows:

360        "Exception: Aircraft hangars of Type I or II construction that are less than 5,000  
361        square feet (464.5m<sup>2</sup>) in area."

362 (10) A new IBC, Section 422.2.1, is added as follows:

363        ["] 422.2.1 Separations: Ambulatory care facilities licensed by the Department of  
364        Health and Human Services shall be separated from adjacent tenants with a fire partition  
365        having a minimum one hour fire-resistance rating. Any level below the level of exit discharge  
366        shall be separated from the level of exit discharge by a horizontal assembly having a minimum  
367        one hour fire-resistance rating.

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

- 369        1. Such levels are under the control of the Ambulatory Care Facility.
- 370        2. Any hazardous spaces are separated by horizontal assembly having a minimum one

371 hour fire-resistance rating."

372 (11) A new, IBC Section 429, Day Care, is added as follows:

373 ~~"[-]429.1 [Detailed Requirements. In addition to the occupancy and construction~~  
374 ~~requirements in this code, the additional provisions of this section shall apply to all Day Care~~  
375 ~~in accordance with Utah Administrative Code R710-8 Day Care Rules] Applicability. The~~  
376 ~~provisions of Sections 429.1 through 429.5 and other applicable provisions of this code shall~~  
377 ~~apply to all occupancies containing day care facilities.~~

378 429.2 Definitions.

379 429.2.1 ~~[Authority Having Jurisdiction (AHJ): State Fire Marshal, his duly authorized~~  
380 ~~deputies, or the local fire enforcement authority code official] Adult Day Care. Nonresidential~~  
381 ~~care and supervision for three or more adults for at least four but less than 24 hours a day and~~  
382 ~~that meets the needs of functionally impaired adults through a comprehensive program that~~  
383 ~~provides a variety of health, social, recreational and related support services in a protective~~  
384 ~~setting. For more information, refer to Utah Administrative Code, R501-13, Adult Day Care.~~

385 429.2.2 ~~[Day Care Facility: Any building or structure occupied by clients of any age~~  
386 ~~who receive custodial care for less than 24 hours by individuals other than parents, guardians,~~  
387 ~~relatives by blood, marriage or adoption] Commercial Preschool Program. A facility where~~  
388 ~~child care is provided for direct or indirect compensation on an ongoing basis in the absence of~~  
389 ~~the child's parent for five or more unrelated children between the ages of two and five years~~  
390 ~~old, for four or more hours, but not exceeding 24 hours a day, is not on a regular schedule, and~~  
391 ~~is in a place other than the provider's or child's home. For more information, refer to Utah~~  
392 ~~Administrative Code, R381-40, Commercial Preschool Programs.~~

393 429.2.3 ~~[Day Care Center: Providing care for five or more clients in a place other than~~  
394 ~~the home of the person cared for. This would also include Child Care Centers, Out of School~~  
395 ~~Time or Hourly Child Care Centers licensed by the Department of Health and Human Services]~~  
396 ~~Hourly Child Care Center. A facility where child care is provided for direct or indirect~~  
397 ~~compensation on an ongoing basis in the absence of the child's parent for five or more~~  
398 ~~unrelated children, for four or more hours, but not exceeding 24 hours a day, is not on a~~  
399 ~~regular schedule, and is in a place other than the provider's or child's home. For more~~  
400 ~~information, please refer to Utah Administrative Code, R381-60, Hourly Child Care Centers.~~

401 429.2.4 ~~[Family Day Care: Providing care for clients listed in the following two groups:]~~  
402 ~~Out-of-School-Time Child Care Program. A facility where child care is provided for direct or~~  
403 ~~indirect compensation on an ongoing basis in the absence of the child's parent for five or more~~  
404 ~~unrelated children who are at least five years of age for less than 24 hours a day, in a place that~~

405 is not the provider's or child's home. For more information refer to Utah Administrative Code,  
406 R381-70, Out-of-School-Time Child Care Programs.

407 [429.2.4.1 Type 1: Services provided for five to eight clients in a home. This would also  
408 include a home that is certified by the Department of Health and Human Services as  
409 Residential Certificate Child Care or licensed as Family Child Care.

410 429.2.4.2 Type 2: Services provided for nine to sixteen clients in a home with sufficient  
411 staffing. This would also include a home that is licensed by the Department of Health and  
412 Human Services as Family Child Care.]

413 429.2.5 [R710-8: Utah Administrative Code, R710-8, Day Care Rules, as enacted under  
414 the authority of the Utah Fire Prevention Board] Child Care Center. A facility where child care  
415 is provided in the absence of the child's parent on an ongoing basis for direct or indirect  
416 compensation for five or more unrelated children of any age for less than 24 hours a day in a  
417 place that is not the provider's or child's home. For more information refer to Utah  
418 Administrative Code, R381-100, Child Care Centers.

419 429.2.6 Residential Certificate Child Care. A facility where child care is provided for  
420 direct or indirect compensation on an ongoing basis for four or more hours a day but less than  
421 24 hours a day, for eight or fewer children or up to ten children including the provider's own  
422 children, of any age within a dwelling that is also the provider's home. For more information,  
423 refer to Utah Administrative Code, R381-50, Residential Certificate Child Care.

424 429.2.7 Licensed Family Child Care. A facility where child care is provided for direct or  
425 indirect compensation on an ongoing basis, in the absence of a child's parent, for four or more  
426 hours a day but less than 24 hours a day, for nine or more unrelated children of any age, within  
427 a dwelling that is also the provider's home. For more information, please refer to Utah  
428 Administrative Code, R381-90, Licensed Family Child Care.

429 429.3 [Family Day Care] Day Care Facilities.

430 429.3.1 [Family Day Care units shall have on each floor occupied by clients, two  
431 separate means of egress, arranged so that if one is blocked the other will be available] Detailed  
432 Requirements. In addition to the occupancy and construction requirements in this code, the  
433 additional provisions of this section shall apply to all day care in accordance with Utah  
434 Administrative Code, R710-8, Day Care Rules.

435 429.3.2 [Family Day Care units that are located in the basement or on the second story  
436 shall be provided with two means of egress, one of which shall discharge directly to the outside] Emergency  
437 Evacuation. A fire escape plan shall be completed and posted in a conspicuous  
438 place. All staff shall be trained on the fire escape plan and procedure. Emergency evacuation

439 drills shall be completed in accordance with the International Fire Code and Utah  
440 Administrative Code, R710-8, Day Care Rules.

441 [429.3.2.1 Residential Certificate Child Care and Licensed Family Child Care with five  
442 to eight clients in a home, located on the ground level or in a basement, may use an emergency  
443 escape or rescue window as allowed in IFC, Chapter 10, Section 1030.]

444 429.3.3 [Family Day Care units shall not be located above the second story] Occupancy  
445 Classification. Buildings or areas within a building containing a commercial preschool  
446 program, hourly child care center, out-of-school-time child care program or a child care center  
447 shall comply with the requirements of Group I-4, Group E, or the primary occupancy,  
448 whichever is applicable for the type of facility. Buildings or areas within a building containing  
449 a residential certificate child day care or a licensed family child day care shall be classified as  
450 Residential Group R-3 or shall comply with the International Residential Code.

451 429.3.3.1 Child day care facilities having four or fewer children receiving care in a  
452 dwelling unit may be located in a Group R-2 occupancy.

453 429.3.4 [In Family Day Care units, clients under the age of two shall not be located  
454 above or below the first story] Group E Occupancies.

455 429.3.4.1 [Clients under the age of two may be housed above or below the first story  
456 where there is at least one exit that leads directly to the outside and complies with IFC, Section  
457 1011 or Section 1012 or Section 1027] Stories containing a Group E child day care occupancy  
458 shall be located at the level of exit discharge.

459 429.3.4.2 Child day care spaces for children over the age of two may be located one  
460 story above the level of exit discharge in buildings equipped with a 903.3.1.1 NFPA 13  
461 sprinkler system throughout and the building is protected by an automatic fire detection system  
462 installed in accordance with Section 907.429.3.4.3. All Group E child day care spaces with an  
463 occupant load of more than 10 shall have a second means of egress. If the second means of  
464 egress is not an exit door leading directly to the exterior, the room shall have an emergency  
465 escape and rescue window complying with Chapter 10.

466 [429.3.5 Family Day Care units located in split entry/split level type homes in which  
467 stairs to the lower level and upper level are equal or nearly equal, may have clients housed on  
468 both levels when approved by the AHJ.

469 429.3.6 Family Day Care units shall have a portable fire extinguisher on each level  
470 occupied by clients, which shall have a classification of not less than 2A:10BC, and shall be  
471 serviced in accordance with NFPA, Standard 10, Standard for Portable Fire Extinguishers.

472 429.3.7 Family Day Care units shall have single station smoke detectors in good

473 operating condition on each level occupied by clients. Battery operated smoke detectors shall  
474 be permitted if the facility demonstrates testing, maintenance, and battery replacement to  
475 insure continued operation of the smoke detectors.

476 429.3.8 Rooms in Family Day Care units that are provided for clients to sleep or nap,  
477 shall have at least one window or door approved for emergency escape.

478 429.3.9 Fire drills shall be conducted in Family Day Care units quarterly and shall  
479 include the complete evacuation from the building of all clients and staff. At least annually, in  
480 Type I Family Day Care units, the fire drill shall include the actual evacuation using the escape  
481 or rescue window, if one is used as a substitute for one of the required means of egress.]

482 429.4 [Day Care Centers] Child day care facilities located in a dwelling.

483 429.4.1 [Day Care Centers shall comply with either I-4 requirements or E requirements  
484 of the IBC, whichever is applicable for the type of Day Care Center] Each story of a dwelling  
485 used for child day care shall have two separate means of egress placed a distance apart equal to  
486 but not less than one-half of the length of the maximum overall diagonal dimension of the  
487 dwelling measured in a straight line between them.

488 429.4.1.1 Where child day care is located one story above or below the level of exit  
489 discharge, one of the exits shall discharge directly to the outside.

490 429.4.1.2 Child day care located on a level of exit discharge may use an emergency  
491 escape and rescue opening as one of the exits where approved by the authority having  
492 jurisdiction.

493 429.4.2 Emergency Evacuation Drills shall be completed as required in IFC, Chapter 4,  
494 Section 405.

495 429.4.3 [Location at grade. Group E child day care centers shall be located at the level  
496 of exit discharge] Child day care shall not be located on a story more than two stories above  
497 grade.

498 429.4.3.1 Child day care spaces for children over the age of 24 months may be located  
499 on the second floor of buildings equipped with automatic fire protection throughout and an  
500 automatic fire alarm system.]

501 429.4.4 [Egress. All Group E child day care spaces with an occupant load of more than  
502 10 shall have a second means of egress. If the second means of egress is not an exit door  
503 leading directly to the exterior, the room shall have an emergency escape and rescue window  
504 complying with Section 1030] Child day care for children under the age of two shall not be  
505 located on any level other than a level of exit discharge.

506 429.4.4.1 Child day care for children under the age of two may be located above or

507 below the first story where at least one exit leads directly to outside.

508 429.4.5 [All Group E Child Day Care Centers shall comply with Utah Administrative  
509 Code, R430-100 Child Care Centers, R430-60 Hourly Child Care Centers, and R430-70 Out of  
510 School Time] Child day care facilities located in a split entry or split level type dwelling in  
511 which stairs to both levels are equal or nearly equal may be located on both levels when  
512 approved by the authority having jurisdiction.

513 429.4.6 Child day care facilities located in a dwelling shall have a portable fire  
514 extinguisher on each level with a classification of not less than 2A:10BC, and shall be serviced  
515 in accordance with NFPA 10, Standard for Portable Fire Extinguishers.

516 429.4.7 Child day care facilities located in a dwelling shall have single station smoke  
517 detectors in good operating condition on each level.

518 429.4.8 Rooms that are used for sleeping or napping shall have at least one emergency  
519 escape and rescue opening.

520 429.4.9 Fire drills shall be conducted in family day care units quarterly and shall include  
521 the complete evacuation from the building of all clients and staff. At least annually, in Type I  
522 family day care units, the fire drill shall include the actual evacuation using the escape or  
523 rescue window, if one is used as a substitute for one of the required means of egress.

524 429.5 Requirements for all Day Care.

525 429.5.1 Heating equipment, fireplaces, and cooking equipment in spaces occupied by  
526 children shall be provided with partitions, screens, or other means to protect children from hot  
527 surfaces and open flames.

528 429.5.2 A fire escape plan shall be completed and posted in a conspicuous place. All  
529 staff shall be trained on the fire escape plan and procedure."

530 (12) In IBC, Section 504.4, a new section is added as follows:

531 "504.4.1 Group I-2 Assisted Living Facilities. Notwithstanding the allowable number of  
532 stories permitted by Table 504.4 Group I-2 Assisted Living Facilities of type VA, construction  
533 shall be allowed on each level of a two-story building when all of the following apply:

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

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

538 (13) A new IBC, Section 504.5, is added as follows:

539 "504.5 Group 1-2 Secured areas in Assisted Living Facilities. In Type IIIB, IV,  
540 and V construction, all areas for the use and care of residents required to be secured

541 shall be located on the level of exit discharge with door operations in compliance with  
542 Section 1010.2.14."

543 Section 4. Section **15A-3-104** is amended to read:

544 **15A-3-104 . Amendments to Chapters 7 through 9 of IBC.**

545 [~~(1) In IBC, Section 703.5, the words "with signs or stenciling" are deleted.~~]

546 [~~(2)~~] (1) IBC, Section (F) 902.1, is deleted and replaced with the following:

547 "F) 902.1 Pump and riser room size. Fire pump rooms and automatic sprinkler system  
548 riser rooms shall be designed with adequate space for all installed equipment necessary for the  
549 installation and to provide sufficient working room around the stationary equipment.

550 Clearances around equipment to elements of permanent construction, including other installed  
551 equipment and appliances, shall be sufficient to allow inspection, service, repair or  
552 replacement without removing such elements of permanent construction or disabling the  
553 function of a required fire-resistance-rated assembly and not less than the following minimum  
554 elements:

555 902.1.1 A minimum clear and unobstructed distance of 12-inches shall be provided from  
556 the installed equipment to the elements of permanent construction.

557 902.1.2 A minimum clear and unobstructed distance of 12-inches shall be provided  
558 between all other installed equipment and appliances.

559 902.1.3 A clear and unobstructed width of 36-inches shall be provided in front of all  
560 installed equipment and appliances, to allow for inspection, service, repair or replacement  
561 without removing such elements of permanent construction or disabling the function of a  
562 required fire-resistance-rated assembly."

563 [~~(3)~~] (2) In IBC, Section 902, new sections are added as follows:

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

573 (F) 902.3 Automatic sprinkler riser room. Automatic sprinkler system risers shall be  
574 provided with ready access. Automatic sprinkler system riser rooms shall be provided with

575 doors and an unobstructed passageway large enough to allow for the removal of the largest  
576 piece of equipment. The passageway shall have a clear width not less than 36 inches. Openings  
577 into the room shall be clear and unobstructed, with doors swinging in the outward direction  
578 from the riser room and the opening providing a clear width of not less than 32 inches and a  
579 clear height of the door opening shall not be less than 80 inches. The door shall be permitted to  
580 be locked provided that the key is available at all times and located in a Key Box in  
581 accordance with Section 506 of the International Fire Code.

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

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

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

591 [(4)] (3) IBC, Section (F)903.2.2, is deleted and replaced with the following:

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

595 1. Four or more care recipients are incapable of self-preservation.  
596 2. One or more care recipients that are incapable of self-preservation are located at other  
597 than the level of exit discharge serving such a facility."

598 [(5)] (4) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the following:

599 "2. A Group F-1 fire area is located more than three stories above the lowest level  
600 of fire department vehicle access."

601 [(6)] (5) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the following:

602 "2. A Group M fire area is located more than three stories above the lowest level  
603 of fire department vehicle access."

604 [(7)] (6) In IBC, Section (F)903.2.8, the following exceptions are added:

605 "Exceptions:

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

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

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

616        [{8}] (7) IBC, Section (F) 903.2.8.1, is deleted.

617        [{9}] (8) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the following:

618        "2. A Group S-1 fire area is located more than three stories above the lowest level  
619        of fire department vehicle access."

620        [{10}] (9) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as follows:

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

627        [{11}] (10) In IBC, Section (F)905.8, the exception is deleted and replaced with the following:

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

629        [{12}] (11) In IBC, Section (F)907.2.3, Group E is deleted and [rewritten as follows]

630        replaced with the following:

631        "A manual fire alarm system that initiates the occupant notification signal using an  
632        emergency voice/alarm communication system that meets the requirements of Section  
633        (F) 907.5.2.2, or a manual fire alarm system that initiates an approved audible and visual  
634        occupant notification signal that meets the requirements of Sections (F)907.5.2.1,  
635        (F)907.5.2.1.1, (F)907.5.2.1.2, and (F)907.5.2.3, and is installed in accordance with  
636        Section (F)907.6 shall be installed in Group E occupancies. Where automatic fire  
637        sprinkler systems or smoke detectors are installed, the fire sprinkler systems and smoke  
638        detectors shall be connected to the building fire alarm system."

639        [{13}] (12) In IBC, Section (F) 907.2.3 Group E, Exception 2 is deleted and the remaining  
640        exceptions are renumbered.

641        [{14}] (13) In IBC, Section (F) 907.2.3 Group E, renumbered Exception 3.2 is deleted and  
642        replaced with the following:

643 "Exception 3.2 The fire alarm system will activate on fire sprinkler waterflow."

644 [15] (14) In IBC, Section (F) 907.2.3 Group E, new [seetions] Sections (F) 907.2.3.1 through  
645 (F) 907.2.3.7 are added as follows:

646 (F) 907.2.3.1 Automatic detection devices that detect smoke shall be installed  
647 throughout all corridors and spaces open to the corridor at the maximum prescribed spacing of  
648 thirty feet on center and no more than fifteen feet from the walls or smoke detectors shall be  
649 installed as required in NFPA, Standard 72, Section 17.7.

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

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

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

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

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

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

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

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

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

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

676 [16] (15) IBC, Section (F) 915.2.3 Group E occupancies is deleted and replaced with the

677 following:

678 "(F) 915.2.3 Group E occupancies. Carbon monoxide detectors shall be installed in the  
679 following areas within Group E occupancies:

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

685     (2) Home economics rooms with gas appliances.  
686     (3) School kitchens with gas appliances. (Commercial kitchens).  
687     (4) Arts rooms and other areas with a gas kiln or open flame.  
688     (5) Gas roof top units, and other carbon monoxide producing HVAC units, one per  
689 zone. (The zone shall be the area covered by the HVAC unit.)

690     (6) In areas with gas wall units.  
691     (7) In areas with a gas water heater or boiler.  
692     (8) Areas with a forge or foundry.  
693     (9) Metal shop or auto shop areas or in adjacent areas where carbon monoxide is  
694 likely to spread. (The installation of carbon monoxide detectors in metal shop or auto shop  
695 areas may cause a false alarm problem. Installing these detectors in adjacent spaces, i.e. class  
696 rooms or corridors, where the carbon monoxide is likely to spread from these spaces may be a  
697 better option.)

698     (10) Labs with open flame.  
699     (11) HVAC units drawing outside air that could be contaminated with carbon  
700 monoxide.

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

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

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

707     [(17)] (16) A new IBC, Section (F) 915.7 is added as follows:

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

710         (F) 915.7.1 Power and wiring.

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

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

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

719 (F) 915.7.3 Notification.

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

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

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

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

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

732 (F) 915.7.5 Inspection.

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

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

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

744 (F) 915.7.6 Evacuation. The affected area within Group E occupancies shall be

745 evacuated when carbon monoxide is detected at a level in excess of 70 ppm for one hour in  
746 that area."

747 Section 5. Section **15A-3-105** is amended to read:

748 **15A-3-105 . Amendments to Chapters 10 through 12 of IBC.**

749 (1) In IBC, Section 1010.2.4, number (2), the following is added at the end of the sentence:

750 "Blended assisted living facilities shall comply with Section [1010.2.14.1] 1010.2.13.1."

751 (2) A new IBC, Section [1010.2.14.1] 1010.2.13.1, is added as follows:

752 ["1010.2.14.1] 1010.2.13.1 Blended assisted living facilities. In occupancy Group  
753 I-1, Condition 2 or Group I-2, a Type-II assisted living facility licensed by the  
754 Department of Health and Human Services for residents with Alzheimer's or dementia,  
755 and having a controlled egress locking system to prevent operation from the egress side  
756 shall be permitted to also house residents without a clinical need for their containment  
757 where all of the following provisions are met:

758 (a) locks in the means of egress comply with all IBC requirements for controlled egress  
759 doors;

760 (b) all residents without a clinical need for their containment shall have the keys, codes,  
761 or other means necessary to exit the facility, in a manner that is determined by the  
762 facility operator and communicated to the resident or their legal representative;

763 (c) residents or their legal representative acknowledge in writing that they understand  
764 and agree to living in a facility where egress is controlled; and

765 (d) the number of residents housed [in a smoke compartment] with controlled egress  
766 shall not be greater than 30."

767 (3) In IBC, Section 1011.5.2, [exception] Exception 3 is deleted and replaced with the  
768 following:

769 ["] \_3. In Group R-3 occupancies, within dwelling units in Group R-2  
770 occupancies, and in Group U occupancies that are accessory to a Group R-3 occupancy,  
771 or accessory to individual dwelling units in Group R-2 occupancies, the maximum riser  
772 height shall be [8] eight inches (203 mm) and the minimum tread depth shall be 9 inches  
773 (229 mm). The minimum winder tread depth at the walk line shall be 10 inches (254  
774 mm), and the minimum winder tread depth shall be 6 inches (152 mm). A nosing not  
775 less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm) shall be provided  
776 on stairways with solid risers where the tread depth is less than 10 inches (254 mm)."

777 (4) In IBC, Section 1011.11, a new [exception] Exception 6 is added as follows:

778 ["] \_6. In occupancies in Group R-3, as applicable in Section 101.2 and in

779 occupancies in Group U, which are accessory to an occupancy in Group R-3, as  
780 applicable in Section 101.2, handrails shall be provided on at least one side of stairways  
781 consisting of four or more risers."

782 (5) In IBC, Section 1025, is deleted.

783 (6) In IBC, Section 1104.4, [exception] Exception 1.5 is deleted.

784 (7) In IBC, Section 1110.4.1(4), the following is added at the end of the sentence:

785 "as defined in Section 72-7-502 of the Utah Code."

786 Section 6. Section **15A-3-106** is amended to read:

787 **15A-3-106 . Amendments to Chapters 13 through 15 of IBC.**

788 (1) IBC, Chapters 13[, 14, and 15] and 14 are not amended.

789 (2) In IBC, Section 1512.2, a new Exception 2 is added as follows:

790 "(2) Any existing layers of polyisocyanurate insulation shall be permitted to  
791 remain in place if the roof decking is in serviceable condition and the insulation is not  
792 damaged, deteriorated or water soaked. All other types of roof insulation and any areas  
793 of damage, deteriorated or water soaked polyisocyanurate insulation are to be removed  
794 and replaced with new."

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

796 **15A-3-107 . Amendments to Chapter 16 of IBC.**

797 [(1) In IBC, Table 1604.5, Risk Category III, in the sentence that begins "Group I-2  
798 Condition 1," a new footnote c is added as follows: "c. Type II Assisted Living  
799 Facilities that are I-2 Condition 1 occupancy classifications in accordance with Section  
800 308 shall be Risk Category II in this table."]

801 [(2)] (1) In IBC, Section 1605.1, Exception 2 is deleted and replaced with the following:

802 "2. Where the allowable stress design load combinations of ASCE 7 Section 2.4 are  
803 used, flat roof snow loads of [30] 45 pounds per square foot [(1.44kN/m<sup>2</sup>) (2.15kN/m<sup>2</sup>) or less  
804 and roof live loads of [30] 45 pounds per square foot [(1.44kN/m<sup>2</sup>) (2.15kN/m<sup>2</sup>) or less need  
805 not be combined with seismic loads. Where flat roof snow loads exceed [30] 45 pounds per  
806 square foot [(1.44kN/m<sup>2</sup>) (2.15kN/m<sup>2</sup>), the snow loads [may be reduced] shall be in  
807 accordance with the following in load combinations including both snow and seismic loads. S  
808 as calculated below, shall be combined with seismic loads.

809 S = [(0.20 + 0.025 (A-5)) (0.15 + 0.016 (A-5))Proof, where S shall be greater than or  
810 equal to [0.20Proof] 0.15 Proof.

811 Where:

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

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

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

815 For the purpose of this section, snow load shall be assumed uniform on the horizontal  
 816 projection without including the effects of drift or sliding. The Importance Factor, I, Risk  
 817 Category factor used in calculating Pf may be considered [±0] Risk Category II."

818 [(3)] (2) In IBC, Section 1605.1 a new [exception] Exception [4] 5 is added as follows:

819 ["4—] "5. ASCE [7-16] 7-22 Section 2.3.6 Equation 6 shall be modified to  $1.2D + Ev +$   
 820  $Eh + L + f2S$  and  $1.2D + Ev + Emh + L + f2S$  with  $f2 = [(0.20 + 0.025(A-5))]$   $f2 = (0.15 + 0.016$   
 821  $(A-5))$  where the roof snow load exceeds [30] 45 pounds per square foot [ $(1.44\text{ kN/m}^2)$   
 822  $(2.15\text{ kN/m}^2)$ . Where A = Elevation above sea level at the location of the structure (ft/1000). f2  
 823 = 0 for roof snow loads of [30] 45 pounds per square foot [ $(1.44\text{ kN/m}^2)$ ] [ $(2.15\text{ kN/m}^2)$  or less.]"

824 [(4) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General:  
 825 Except as modified in Sections 1608.1.1 and 1608.1.2, design snow loads shall be  
 826 determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not  
 827 be less than that determined by Section 1607. Where the minimum live load, in  
 828 accordance with Section 1607, is greater than the design roof snow load, the live load  
 829 shall be used for design, but it may not be reduced to a load lower than the design roof  
 830 snow load. Drifting need not be considered for design roof snow loads, less than 20 psf."]

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

838 [(6) (3) [A new IBC, Section 1608.1.2] A new IBC, Section 1608.1.1, is added as follows:

839 ["1608.1.2] "1608.1.1. Drifts on adjacent structures. Section 7.7.2 of ASCE 7  
 840 referenced in IBC, Section 1608.1, is deleted and replaced with the following:

841 7.7.2 Adjacent structures. At lower adjacent structures, the requirements of  
 842 Section 7.7.1 shall be used to calculate windward and leeward drifts. The resulting drift  
 843 is permitted to be truncated."

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

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

847 [~~(b)~~ On Figure 7.2-1, remove CS and other ground snow load values in the state of Utah.

848 ~~Add red shaded region for the state of Utah with the following note: See note for~~  
 849 ~~Utah.]~~

850 [~~(e)~~ The following is added to the Note on Figure 7.2.1: See Table 7.2-9 for Utah.]

851 [~~(d)~~ Add Table 7.2-9 as follows:]

852 [TABLE 7.2-9]

853 GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

854 City/Town	854 County	854 Ground Snow Load (lb/ft <sup>2</sup> )	854 Elevation (ft)
855 Beaver	855 Beaver	855 35	855 5886
856 Brigham City	856 Box Elder	856 42	856 4423
857 Castle Dale	857 Emery	857 32	857 5669
858 Coalville	858 Summit	858 57	858 5581
859 Duchesne	859 Duchesne	859 39	859 5508
860 Farmington	860 Davis	860 35	860 4318
861 Fillmore	861 Millard	861 30	861 5138
862 Heber City	862 Wasatch	862 60	862 5604
863 Junction	863 Piute	863 27	863 6030
864 Kanab	864 Kane	864 25	864 4964
865 Loa	865 Wayne	865 37	865 7060
866 Logan	866 Cache	866 43	866 4531
867 Manila	867 Daggett	867 26	867 6368
868 Manti	868 Sanpete	868 37	868 5620
869 Moab	869 Grand	869 21	869 4029
870 Monticello	870 San Juan	870 67	870 7064
871 Morgan	871 Morgan	871 52	871 5062
872 Nephi	872 Juab	872 39	872 5131
873 Ogden	873 Weber	873 37	873 4334
874 Panguitch	874 Garfield	874 41	874 6630
875 Parowan	875 Iron	875 32	875 6007

876	Priee	Carbon	31	5558
877	Provo	Utah	31	4541
878	Randolph	Rieh	50	6286
879	Richfield	Sevier	27	5338
880	St. George	Washington	21	2585
881	Salt Lake City	Salt Lake	28	4239
882	Tooele	Tooele	35	5029
883	Vernal	Uintah	39	5384

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

1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.
2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).
3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow load values."]

885 [(8)] (4) A new IBC, Section 1613.1.1, is added as follows:

886 "1613.1.1 Effective Seismic Weight. In ASCE 7 12.7.2 and 12.14.8.1 as referenced in  
887 Section 1613.1, Definition of W, Item 4 is deleted and replaced with the following:

888 4. Where flat roof snow load, Pf, exceeds [30 psf (1.44kN/m<sup>2</sup>)] 45 pounds per square  
889 foot (2.15kN/m<sup>2</sup>), the snow load included in the effective seismic weight shall be calculated,  
890 in accordance with the following equation: [Ws = (0.20 + 0.025(A-5))Pf >= 0.20 Pf] Ws=(0.15  
891 + 0.016(A-5))Pf >=0.15 Pf.

892 [WHERE] Where:

893 Ws = Weight of snow to be included as effective seismic weight

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

895 Pf = Design flat roof snow load, psf.

896 For the purposes of this section, snow load shall be assumed uniform on the horizontal  
897 projection without including the effects of drift or sliding. The [Importance Factor, Is,] Risk  
898 Category factor used in calculating Pf may be considered [1.0] Risk Category II for use in the  
899 formula for Ws."

900 (5) A new IBC, Section 1613.1.2, is added as follows:

901        "1613.1.2 Equivalent Lateral Forces (ELF) Procedure. In ASCE 7 Section 12.8.1.1  
 902        the first paragraph is deleted and replaced with the following: Where the design special  
 903        acceleration parameter  $S_a$  determined in accordance with either Section 11.4.5.1 or  
 904        Chapter 21 is available, Method 1 shall be used to determine the seismic response  
 905        coefficient,  $C_s$ . Where Exception 2 of Section 11.4.5 applies, Method 1 shall not be  
 906        used. The lower bound for the seismic response coefficient,  $C_s$ , provided in Eq.12.8-6 or  
 907        12.8-7 shall be applicable for both Method 1 and Method 2."

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

909        **15A-3-108 . Amendments to Chapters 17 through 19 of IBC.**

910        (1) A new IBC, Section 1807.1.6.4, is added as follows:

911        "1807.1.6.4 Empirical concrete foundation design. Group R, Division 3  
 912        Occupancies three stories or less in height, and Group U Occupancies, which are  
 913        constructed in accordance with Section 2308, or with other methods employing  
 914        repetitive wood-frame construction or repetitive cold-formed steel structural member  
 915        construction, shall be permitted to have concrete foundations constructed in accordance  
 916        with Table 1807.1.6.4."

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

"TABLE 1807.1.6.4							
EMPIRICAL FOUNDATION WALLS (1,7,8)							
Max. Height	Top Edge Support	Min. Thickn ess	Vertic al Steel (2)	Horizon tal Steel (3)	Steel at Openings (4)	Max. Lintel Length	Min. Lintel Length
2'(610 mm)	None	6"	(5)	2- #4 Bars	2- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	2'(610 mm)	2" for each foot of opening width; min. 6"
3'(914 mm)	None	6"	#4@3 2"	3- #4 Bars	2- #4 Bars above 1- #4 Bar each side	2'(610 mm)	2" for each foot of opening width; min. 6"

					1- #4 Bar below		
923	4'(1,219 mm)	None	6"	#4@3 2"	4- #4 Bars above 1- #4 Bar each side 1- #4 Bar below	3'(914 mm)	2" for each foot of opening width; min. 6"
924	6'(1,829 mm)	Floor or roof Diaphra gm (6)	8"	#4@2 4"	5- #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"
925	8'(2,438 mm)	Floor or roof Diaphra gm (6)	8"	#4@2 4"	6- #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"
926	9'(2,743 mm)	Floor or roof Diaphra gm (6)	8"	#4@1 6"	7- #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"
927	Over 9'(2,743 mm), Engineering required for each column						
928	Footnotes:						
929	(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.						
930	(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.						

931 (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 1808.8.6. Corner reinforcing shall be provided so as to lap 24 inches (610 mm).

932 (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.

933 (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.

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

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

936 (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."

937 (3) A new Section [IIBC, Section 1905.1.9] 1904.3, is added as follows:  
938     ["1905.1.9] "1904.3 ACI 318, Section 19.3.1.1." Modify ACI 318, Table 19.3.1.1 to  
939     read as follows: In the portion of the table designated as "Conditions", the following Exposure  
940     category and class is deleted and replaced with the following:  
941         "F0: Concrete elements not exposed to freezing and thawing cycles including footing  
942         elements, such as footings, tie beams, piles, and pile caps, etc., that are completely buried in  
943         soil."

944 (4) A new IBC, Section 1905.8, is added as follows:  
945         "1905.8 In ACI 318, Section 18.10.3 is deleted and replaced with the following:  
946         18.10.3 Design Forces:  
947         18.10.3.1 Design shear forces for horizontal wall segments, including coupling  
948         beams, shall be in accordance with 18.10.7.  
949         18.10.3.2 Design shear forces for wall piers shall be in accordance with 18.10.8.  
950         18.10.3.3 Design shear forces for parts of walls not covered by 18.10.3.1 or 18.10.3.2  
951         shall be in accordance with the requirements of 18.10.3.3.1 through 18.10.3.3.5.  
952         18.10.3.3.1 If the wall design actions are determined in accordance with nonlinear  
953         dynamic analysis procedures satisfying Appendix A, design forces shall be as  
954         determined in Appendix A.  
955         18.10.3.3.2 If the design shear force is determined by linear analysis procedures of  
956         the general building code, it shall be amplified by the product  $\Omega_v \omega_v$ , where  $\Omega_v$  and  $\omega_v$ , are  
957         defined in 18.10.3.3.3 through 18.10.3.3.5.

958 18.10.3.3.3  $\Omega_v$  and  $\omega_v$ , shall be in accordance with Table 18.10.3.3.3. Alternatively, it  
 959 shall be permitted to calculate  $\Omega_v = M_{pr}/M_u$  at the critical section for flexure, where  $M_{pr}$   
 960 is calculated for axial force that includes the effects of and the expected gravity loads,  
 961 with expected gravity loads in accordance with ASCE/SEI 7 Section 16.3.2.

962 Table 18.10.3.3.3 Factors  $\Omega_v$  and  $\omega_v$

963 Condition	964 $\Omega_v$	965 $\omega_v$
964 <u>hwcs/lw <math>\leq 1.0</math></u>	965 <u>1.0</u>	966 <u>1.0</u>
965 <u><math>1.0 &lt; hwcs/lw &lt; 2.0</math></u>	966 <u>Linear interpolation permitted between 1.0 and 1.5</u>	967 <u>1.0</u>
966 <u><math>hwcs/lw \geq 2.0</math></u>	967 <u>1.5</u>	968 <u><math>0.8 + 0.09hn^{1/3}</math> 1.0</u>

967 18.10.3.3.4 If the general building code includes provision to account for over  
 968 strength of the seismic-force-resisting system, it shall be permitted to take  $\Omega_v \omega_v$  equal to  $\Omega_o$ .

969 18.10.3.3.5 If  $3 \Omega_v \omega_v = \Omega_o$ , it shall be permitted to take the redundancy factor contained  
 970 in the general building code equal to 1.0 for determination of the design shear force."

971 (5) A new IBC, Section 1905.9, is added as follows:

972 "1905.9 In ACI 318, Section 21.2.4.1, the following words are added after the words  
 973 "resist E", except for walls where  $\Omega_v \geq 1.5$  or if  $\omega_v$  is taken as equal to  $\Omega_o$ ."

974 (6) A new IBC, Section 1909, Modifications to ACI 318, is added as follows:

975 "1909.1 General. The text of ACI 318 shall be modified as indicated in Sections  
 976 1909.2 through 1909.5.

977 1909.2 ACI 318 Section 13.2.6.2, For shallow foundation members continuously  
 978 supported by soil and designed based upon the assumption of rigid behavior of the  
 979 shallow member, (a) and (b) shall be permitted:

980 (a) For one-way shear strength,  $V_c$  shall be taken as:  $V_c = 2\sqrt{f_l c b w d}$ .

981 (b) For two-way shear strength, the size factor,  $\lambda_s$ , specified in 22.6 shall be taken  
 982 equal to 1.0.

983 1909.3 ACI 318, Section 13.3.6.1.1 is added as follows:

984 13.3.6.1.1 It shall be permitted to calculate  $V_c$  for cantilever retaining wall as  $V_c = 2\lambda \sqrt{f_l c b w d}$ .

985 1909.4 ACI 318, Section 13.3.7 Basement Walls is added as follows:

986 13.3.7.1 The design of basement walls to resist out-of-plane lateral earth pressures  
 987 shall satisfy (a) through (e):

989 (a) Basement walls shall be designed as one-way slabs in accordance with the  
990 applicable provision of Chapter 7 or as two-way slabs in accordance with the applicable  
991 provision of Chapter 8.

992 (b) Basement walls shall be designed to resist hydrostatic pressure, if applicable.

993 (c) It shall be permitted to calculate the one-way sheer strength of concrete as  $V_c = 2\lambda\sqrt{f_{lc}bwd}$ .

994 (d) For two-way shear strength, the size effect factor  $\lambda_s$ , as specified in 22.6 shall be  
995 taken equal to 1.0.

996 (e) Basement walls shall satisfy the applicable provision of Chapter 18.13.3.7.2. For  
997 loads other than out-of-plane lateral earth pressure, basement walls shall satisfy the  
998 applicable provisions of Chapter 11."

1000 (7) 1909.5 ACI 318, Section 22.5.5.1.1, is deleted and replaced with the following:  
1001 "22.5.5.1.1  $V_c$  shall not be taken as greater than  $5\lambda\sqrt{f_{lc}bwd}$ .  $V_c$  need not be taken less  
1002 than  $\lambda\sqrt{f_{lc}bwd}$  except in cases (a) or (b):  
1003 (a) elements subject to net axial tension  
1004 (b) if Sections 18.6.5.2 or 18.7.6.2.1 apply."

1005 Section 9. Section **15A-3-110** is amended to read:

## 1006 **Part 11. Statewide Amendments to the International Wildland-Urban Interface Code**

### 1007 **15A-3-110 . Amendments to Chapters 23 through 25 of IBC.**

1008 (1) A new [IBC, Section 2306.1.5] IBC, Section 2306.1.6, is added as follows:  
1009 ["2306.1.5] "2306.1.6 Load duration factors. [-]The allowable stress increase of 1.15  
1010 for snow load, shown in Table 2.3.2, Frequently Used Load Duration Factors, Cd, of the  
1011 National Design Specifications, shall not be utilized at elevations above 5,000 feet  
1012 (1,524 M)."  
1013 (2) [In] [IBC, Section 2308.3.1] In IBC, Section 2308.7.1, the words "6 feet (1829 mm)"  
1014 and "4 feet (1219 mm)" are deleted and each replaced with the words "32 inches."  
1015 (3) A new IBC, Section 2406.6, is added as follows:  
1016 "2406.6 Glazing in Educational Occupancies (K-12). Exterior entrance level  
1017 windows within 25 feet of an exterior entrance shall have ballistic glass or security  
1018 glazing, extending from ground level to a minimum height of six feet from ground level.  
1019 Windows surrounding the interior of the classroom entrance or instructional areas  
1020 shall have ballistic glass or security glazing installed, extending from the floor to a  
1021 minimum height of six feet from the floor."

1022 2406.6.1 Standard for Security Glazing in Educational Occupancies (K-12). For the  
1023 purpose of this section, Ballistic glass is defined as glass certified at a minimum level of:  
1024 (i) Underwriters Laboratories Standard UL752-23, Standard for Bullet-Resisting  
1025 Equipment, Threat Level UL-RF-E from Table C1 (Legacy Level) (2023); or  
1026 (ii) ASTM F3279-24, Standard Test Methods for Ballistic Resistant Security Glazing  
1027 Materials, Threat and Performance Level 4, Ballistic Test Identity (BTI) R1-T1-C5-2L  
1028 under Table 1, Ballistic Criteria (2021).

1029 Security glazing is defined as a clear or tinted durable material applied to glass doors  
1030 and windows that enhances the structural integrity of the glass by preventing it from  
1031 shattering and falling to the ground when impacted by an object and meets the minimum  
1032 standard established by:

1033 (i) ASTM F3561, Standard Test Method for Forced-Entry-Resistance of Fenestration  
1034 Systems After Simulated Active Shooter Attack, minimum level 3 of Table 2, Potential  
1035 Energy of Impact and Drop Height (2023); or  
1036 (ii) ANSI Z97.1-15 (R20) American National Standards For Safety Glazing Materials  
1037 used in Buildings safety performance specifications and methods of test, must meet the  
1038 durability requirements of Sections 5.3 and 5.4.

1039 References:

1040 Minimum Safety and Security Standards for School Facilities  
1041 State Security Chief: Subsections 53-22-102(3)(b) and (c)  
1042 County Security Chief: Subsection 53-22-103(2)  
1043 State Board of Education Construction Guidelines: Sections 53E-3-702; 53E-3-706  
1044 Panic device: Section 56G-8-805"

1045 Section 10. Section **15A-3-202** is amended to read:

1046 **15A-3-202 . Amendments to Chapters 1 through 5 of IRC.**

1047 (1) In IRC, Section R101.2, Exception, [the words] the following words are deleted:  
1048 "where provided with an automatic sprinkler system complying with Section  
1049 P2904."[-are deleted.]

1050 (2) In IRC, Section R101.2, Exception, [the words] the following words are added:  
1051 "6. A triplex or fourplex of no more than two levels with 2-hour  
1052 fire-resistance-rated vertical shared wall assemblies tested in accordance with ASTM  
1053 E119 or UL263, 1-hour fire-resistance-rated horizontal floor assemblies tested in  
1054 accordance with ASTM E119 or UL263, and independent egress for each unit."[-are  
1055 added.]

1056 (3) In IRC, Section R102, a new Section R102.7.2 is added as follows:

1057 "R102.7.2 Physical change for bedroom window egress. A structure whose egress  
1058 window in an existing bedroom is smaller than required by this code, and that complied  
1059 with the construction code in effect at the time that the bedroom was finished, is not  
1060 required to undergo a physical change to conform to this code if the change would  
1061 compromise the structural integrity of the structure or could not be completed in  
1062 accordance with other applicable requirements of this code, including setback and  
1063 window well requirements."

1064 (4) In IRC Section R105.2, under Building, the following changes are made:

1065 (a) Number 3 is deleted and replaced with the following:

1066 "3. Retaining walls retaining less than 4 feet (1219mm) of unbalanced fill,  
1067 unless supporting a surcharge or requiring design per Section R404.4."

1068 (b) Number 10 is deleted and replaced with the following:

1069 "10. Decks that are not more than 30 inches (762mm) above grade at any point  
1070 and not requiring guardrails, that do not serve exit door required by Section R311.4."

1071 (5) In IRC, Section R105.2, a new exception is added:

1072 "11. Grade level, non-connected conex boxes, less than 350 square feet, used for  
1073 storage only."

1074 (6) In IRC, Section R108.3, the following sentence is added at the end of the section:

1075 "The building official shall not request proprietary information."

1076 (7) In IRC, Section 109.1.5, is deleted and replaced with the following:

1077 "R109.1.5 Other inspections. In addition to the inspections listed in R109.1.1  
1078 through R109.1.4, the building official shall have the authority to inspect the proper  
1079 installation of insulation. R109.1.5.1 Weather-resistant exterior wall envelope  
1080 inspections. An inspection shall be made of the weather-resistant exterior wall envelope  
1081 as required by Section R703.1 and flashings as required by Section R703.4 to prevent  
1082 water from entering the weather-resistant barrier. R109.1.5.2 Fire-resistance-rated  
1083 construction inspection. Where fire-resistance-rated construction is required between  
1084 dwelling units or due to location on property, the building official shall require an  
1085 inspection of such construction after lathing or gypsum board or gypsum panel products  
1086 are in place, but before any plaster is applied, or before board or panel joints and  
1087 fasteners are taped and finished."

1088 (8) In IRC, Section R202, the following definition is added:

1089 "ACCESSORY DWELLING UNIT: A habitable living unit created within the

1090 existing footprint of a primary owner-occupied single-family dwelling."

1091 (9) In IRC, Section R202, the definition for "Approved" **APPROVED** is modified by  
1092 adding the words "or independent third-party licensed engineer or architect and  
1093 submitted to the building official" after the word "official."

1094 (10) In IRC, Section R202, the definition for "Approved Agency" **APPROVAL AGENCY**  
1095 " is modified by replacing the word "and" with "or."

1096 (11) In IRC, Section 202, the definition for "Approved Source" **APPROVED SOURCE** is  
1097 modified by adding the words "or licensed engineer or architect" after the word  
1098 "official."

1099 (12) In IRC, Section R202, the following definition is added:

1100 "CERTIFIED BACKFLOW PREVENTER ASSEMBLY TESTER: A person who  
1101 has shown competence to test Backflow prevention assemblies to the satisfaction of the  
1102 authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."

1103 (13) In IRC, Section R202, the definition of "Cross Connection" **CROSS CONNECTION**  
1104 is deleted and replaced with the following:

1105 "CROSS CONNECTION. Any physical connection or potential connection or  
1106 arrangement between two otherwise separate piping systems, one of which contains  
1107 potable water and the other either water of unknown or questionable safety or steam,  
1108 gas, or chemical, whereby there exists the possibility for flow from one system to the  
1109 other, with the direction of flow depending on the pressure differential between the two  
1110 systems (see "Backflow, Water Distribution")."

1111 (14) In IRC, Section 202, the following definition is added:

1112 "DUAL SOURCE CONNECTION. A pipe that is installed so that either the  
1113 nonpotable (i.e. secondary) irrigation water or the potable water is connected to a  
1114 pressurized irrigation system at one time, but not both at the same time; or a pipe that is  
1115 installed so that either the potable water or private well water is connected to a residence  
1116 at one time, but not both at the same time. The potable water supply line shall be  
1117 protected by a reduced pressure backflow preventer."

1118 (15) In IRC, Section 202, the following definition is added:

1119 "ENERGY STORAGE SYSTEM (ESS). One or more devices, assembled  
1120 together, that are capable of storing energy for supplying electrical energy at a future  
1121 time."

1122 (16) In IRC, Section 202, in the definition for "gray water" **GRAY WATER**, a comma is  
1123 inserted after the word "washers"; the word "and" is deleted; and the following is added

1124

to the end:

1125

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

1126

(17) In IRC, Section R202, the definition of "[Potable Water] POTABLE WATER" is deleted and replaced with the following:

1127

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

1128

(18) In IRC, Figure R301.2 (3), is deleted and replaced with R301.2 (3) as follows:

1129 "TABLE R301.2 (3)

1130 GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

1131 City/Town	1132 County	1133 Ground Snow Load (lb/ft <sup>2</sup> )	1134 Elevation (ft)
1135 Beaver	1136 Beaver	1137 35	1138 5886
1139 Brigham City	1140 Box Elder	1141 42	1142 4423
1143 Castle Dale	1144 Emery	1145 32	1146 5669
1147 Coalville	1148 Summit	1149 57	1150 5581
1151 Duchesne	1152 Duchesne	1153 39	1154 5508
1155 Farmington	1156 Davis	1157 35	1158 4318
1159 Fillmore	1160 Millard	1161 30	1162 5138
1163 Heber City	1164 Wasatch	1165 60	1166 5604
1167 Junction	1168 Piute	1169 27	1170 6030
1171 Kanab	1172 Kane	1173 25	1174 4964
1175 Loa	1176 Wayne	1177 37	1178 7060
1179 Logan	1180 Cache	1181 43	1182 4531
1183 Manila	1184 Daggett	1185 26	1186 6368
1187 Manti	1188 Sanpete	1189 37	1190 5620
1191 Moab	1192 Grand	1193 21	1194 4029
1195 Monticello	1196 San Juan	1197 67	1198 7064

1154	Morgan	Morgan	52	5062
1155	Nephi	Juab	39	5131
1156	Ogden	Weber	37	4334
1157	Panguitch	Garfield	41	6630
1158	Parowan	Iron	32	6007
1159	Price	Carbon	31	5558
1160	Provo	Utah	31	4541
1161	Randolph	Rich	50	6286
1162	Richfield	Sevier	27	5338
1163	St. George	Washington	21	2585
1164	Salt Lake City	Salt Lake	28	4239
1165	Tooele	Tooele	35	5029
1166	Vernal	Uintah	39	5384

1167 Note: To convert lb/ft<sup>2</sup> to kN/m<sup>2</sup>, multiply by 0.0479. To convert feet to meters, multiply by 0.3048.1. Statutory requirements of the Authority Having Jurisdiction are not included in this state ground snow load table.

2. For locations where there is substantial change in altitude over the city/town, the load applies at and below the cited elevation, with a tolerance of 100 ft (30 m).
3. For other locations in Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for ground snow load values."

1168 (19) In IRC, Section R301.6, is deleted and replaced with the following:

1169 "R301.6 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall  
 1170 be used for the jurisdictions identified in that table. Otherwise, for other locations in  
 1171 Utah, see Bean, B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah  
 1172 State University Civil and Environmental Engineering Faculty Publications, Paper 3589,  
 1173 <http://utahsnowload.usu.edu/>, for ground snow load values."

1174 (20) In IRC, Section R302.2, the following sentence is added at the end of the paragraph:

1175 "When an access/maintenance agreement or easement is in place, plumbing,  
 1176 mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including  
 1177 feeders, are permitted to penetrate the common wall at grade, above grade, or below

1178 grade."

1179 (21) In IRC, Section R302.3, a new [exception] Exemption 3 is added as follows:

1180 "3. Accessory dwelling units separated by walls or floor assemblies protected by  
1181 not less than 1/2-inch (12.7 mm) gypsum board or equivalent on each side of the wall or  
1182 bottom of the floor assembly are exempt from the requirements of this section."

1183 (22) In IRC, Section R302.5.1, the last sentence is deleted.

1184 (23) In IRC, Section R302.13, is deleted.

1185 (24) In IRC, Section R303.4, the following exception is added:

1186 "Exception: Dwelling units tested in accordance with Section N1102.4.1.2  
1187 (R402.4.1.2) which has an air tightness of 3.0 ACH (50) or greater do not require  
1188 mechanical ventilation."

1189 (25) In IRC, Section R310.1, all words in the last sentence after "or to a yard or court", are  
1190 deleted, and Exception 3 of this section is deleted.

1191 (26) In IRC, Section R310.7, in the exception, the words "or accessory dwelling units" are  
1192 added after the words "sleeping rooms".

1193 (27) IRC, Sections [R311.7.45] R311.7.5.1 through R311.7.5.3, are deleted and replaced with  
1194 the following:

1195 "[R311.7.45.1 Stair treads and risers. R311.7.5.1] R311.7.5.1 Riser height. The  
1196 maximum riser height shall be 8 inches (203 mm). The riser shall be measured vertically  
1197 between leading edges of the adjacent treads. The greatest riser height within any flight of  
1198 stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).

1199 R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The  
1200 tread depth shall be measured horizontally between the vertical planes of the foremost  
1201 projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread  
1202 depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).  
1203 Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at  
1204 a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall  
1205 have a minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the  
1206 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by  
1207 more than 3/8 inch (9.5 mm).

1208 R311.7.5.3 Nosing. The radius of curvature at the leading edge of the tread shall be no  
1209 greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than  
1210 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
1211 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)

1212 between two stories, including the nosing at the level of floors and landings. Beveling of  
1213 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
1214 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51  
1215 rad) from the vertical. Open risers are permitted, provided that the opening between treads  
1216 does not permit the passage of a 4-inch diameter (102 mm) sphere.

1217 Exceptions.

- 1218 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
- 1219 2. The opening between adjacent treads is not limited on stairs with a total rise of 30  
1220 inches (762 mm) or less."

1221 (28) In IRC, Section R312.2, is deleted.

1222 (29) In IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
1223 following:

1224 "R313.1 Design and installation. When installed, automatic residential fire  
1225 sprinkler systems for townhouses or one- and two-family dwellings shall be designed  
1226 and installed in accordance with Section P2904 or NFPA 13D."

1227 (30) In IRC, Section R314.2.2, the words "accessory dwelling units," are added after the  
1228 words "Where alterations, repairs."

1229 (31) In IRC, Section R315.2.2, the words "accessory dwelling units," are added after the  
1230 words "Where alterations, repairs."

1231 (32) In IRC, Section 315.3, the following words are added to the first sentence after the  
1232 word "installed": "on each level of the dwelling unit and."

1233 (33) A new IRC, Section R328.12, is added as follows:

1234 "R328.12 Signage. A sign located on the exterior of the dwelling shall be installed at a  
1235 location approved by the authority having jurisdiction which identifies the battery chemistry  
1236 included in the ESS. This sign shall be of sufficient durability to withstand the environment  
1237 involved and shall not be handwritten."

1238 (34) In IRC, Section 403.1.3.5.3, an exception is added as follows:

1239 [-]"Exception: Vertical steel in footings shall be permitted to be located while  
1240 concrete is still plastic and before it has set. Where vertical steel resists placement or the  
1241 consolidation of concrete around steel is impeded, the concrete shall be vibrated to  
1242 ensure full contact between the vertical steel and concrete."

1243 (35) In IRC, Section R403.1.6, a new Exception 3 is added as follows:

1244 "3. [-]When anchor bolt spacing does not exceed 32 inches (813 mm) apart,  
1245 anchor bolts may be placed with a minimum of two bolts per plate section located not

1246 less than 4 inches (102 mm) from each end of each plate section at interior bearing  
1247 walls, interior braced wall lines, and at all exterior walls."

1248 (36) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and Item 3  
1249 as follows:

1250 "Exception: When anchor bolt spacing does not exceed 32 inches (816 mm) apart,  
1251 anchor bolts may be placed with a minimum of two bolts per plate section located not  
1252 less than 4 inches (102 mm) from each end of each plate section at interior bearing  
1253 walls, interior braced wall lines, and at all exterior walls."

1254 (37) In IRC, Section R404.1, a new exception is added as follows:

1255 "Exception: As an alternative to complying with Sections R404.1 through  
1256 R404.1.5.3, concrete and masonry foundation walls may be designed in accordance with  
1257 IBC Sections 1807.1.5 and 1807.1.6 as amended in Section 1807.1.6.4 and Table  
1258 1807.1.6.4 under these rules."

1259 (38) In IRC, Section R405.1, a second exception is added as follows:

1260 "Exception: When a geotechnical report has been provided for the property, a  
1261 drainage system is not required unless the drainage system is required as a condition of  
1262 the geotechnical report. The geotechnical report shall make a recommendation regarding  
1263 a drainage system."

1264 (39) In IRC, Section R506.2.3, the words "10-mil (0.010 inch; 0.25 mm)" are deleted and  
1265 replaced with "6-mil (0.006 inch; 0.152 mm)" and the words "conforming to ASTM  
1266 E1745 Class A requirements" are deleted.

1267 (40) In IRC, Section 507.2.1, Wood materials. The following [sentencee] is added after the  
1268 words, "in accordance with section R317," "field applied weather resistant barrier  
1269 applied to the top of untreated material,".

1270 Section 11. Section **15A-3-203** is amended to read:

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

1272 (1) IRC, Section R609.4.1, is deleted.

1273 (2) IRC, Section R702.7, is deleted.

1274 [2]

1275 (3) In IRC, Section N1101.4 (R102.1.1), a new section N1101.4.1 (R102.1.1) is added as  
1276 follows:

1277 "N1101.4.1 National Green Building Standard. Buildings complying with ICC  
1278 700-2020 National Green Building Standard and achieving the Gold rating level for the  
1279 energy efficiency category shall be deemed to exceed the energy efficiency required by

1280 this code. The building shall also meet the requirements identified in table N1105.2 and  
1281 the building thermal envelope efficiency is greater than or equal to levels of efficiency  
1282 and solar heat gain coefficients (SHGC) in Tables N1102.2.2 and N1102.1.3 of the 2009  
1283 IRC."

1284 [③] (4) In IRC, Section N1101.5 (R103.2), all words after the words "herein governed." are  
1285 deleted and replaced with the following:

1286 "Construction documents include all documentation required for building permits  
1287 shall include only those items specified in Subsection 10-20-909(12) or 17-79-810(12)  
1288 of the Utah Code."

1289 [④] (5) In IRC, Section N1101.10.3 (R303.1.3) the following changes are made:

1290 (a) The following is added at the end of the first sentence "or EN  
1291 14351-1:2006+A1:2010."

1292 (b) The word "accredited" is replaced with "approved" in the third sentence.

1293 (c) The following sentence is added after the third sentence:

1294 "A conversion factor of 5.678 shall be used to convert from U values expressed  
1295 in SI units: ()/53678=."

1296 (d) After "NFRC 200" the following words are added: "or EN 14351-1:2006+A1:2010,"  
1297 and in the sentence the word "accredited" is replaced with the word "approved."

1298 (e) The following new sentence shall be inserted immediately before the last sentence:

1299 "Total Energy Transmittance values may be substituted for SHGC, and  
1300 Luminous Transmission values may be substituted for VT."

1301 [⑤] (6) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is deleted.

1302 [⑥] (7) In IRC, Section N1101.13 (R401.2), in the first sentence, the words "Section  
1303 N1101.13.5 and" are deleted.

1304 [⑦] (8) In IRC, Section N1101.13.5 (R401.2.5) is deleted.

1305 [⑧] (9) In IRC, Section N1101.14 (R401.3) Number 7, the words "and the compliance path  
1306 used" are deleted.

1307 [⑨] (10) In IRC, Table N1102.1.2 (R402.1.2):

1308 (a) in the column titled Fenestration U-Factor the following changes are made:

1309 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;  
1310 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
1311 0.32; and

1312 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;

1313 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in

1314 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;

1315 (c) in the column titled "Ceiling U-Factor" the following changes are made:

1316 (i) in the row titled "Climate Zone 3" delete 0.026 and replace it with 0.030;

1317 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.024 and replace it with

1318 0.026; and

1319 (iii) in the row titled "Climate Zone 6" delete 0.024 and replace it with 0.026;

1320 (d) in the column titled "Wood Frame Wall U Factor", the following changes are made:

1321 (i) in the row titled "Climate Zone 3" delete 0.060 and replace it with 0.060;

1322 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.045 and replace it with

1323 0.060; and

1324 (iii) in the row titled "Climate Zone 6" delete 0.045 and replace it with 0.060;

1325 (e) in the column titled "Basement Wall U-Factor" the following changes are made:

1326 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.050 and replace it with

1327 0.075; and

1328 (ii) in the row titled "Climate Zone 6" delete 0.50 and replace it with 0.065; and

1329 (f) in the column titled "Crawl Space Wall U-Factor" the following changes are made:

1330 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.055 and replace it with

1331 0.078; and

1332 (ii) in the row titled "Climate Zone 6" delete 0.55 and replace it with 0.065.

1333 [(10)] (11) In IRC, Table N1102.1.3 (R402.1.3), the following changes are made:

1334 (a) in the column titled "Wood Frame Walls R-Value" a new footnote indicator "j" is

1335 added and at the bottom of the footnotes the following footnote "j" is added:

1336 "j. In [elimate zone] Climate Zones 3B and 5B, an R-15, and in climate zone 6, an

1337 R-20 shall be acceptable where air-impermeable insulation is installed in the cavity

1338 space, exterior continuous insulation, or some combination thereof; and the tested

1339 house air leakage is a maximum of 2.0 ACH50"; and

1340 (b) add a new footnote "k" as follows:

1341 "k. Log walls complying with ICC400 and with a minimum average wall

1342 thickness of 5 inches or greater shall be permitted in Zones 5 through 8 when overall

1343 window glazing has 0.30 U-factor or lower, minimum heating equipment efficiency

1344 is for gas 95 AFUE, or for oil, 84 AFUE, and all other components requirements are

1345 met."

1346 [(11)] (12) In IRC, Table N1102.1.3 (R402.1.3) the following changes are made:

1347 (a) in the column titled "Fenestration U-Factor" the following changes are made:

1348 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;  
1349 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
1350 0.32; and  
1351 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;

1352 (b) in the column titled "Glazed Fenestration SHGC" the following change is made: in  
1353 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;

1354 (c) in the Column R-Value the following changes are made:  
1355 (i) in the row titled "Climate Zone 3" delete 49 and replace it with 38;  
1356 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 60 and replace it with 49;  
1357 and  
1358 (iii) in the row titled "Climate Zone 6" delete 60 and replace it with 49;

1359 (d) in the Column titled "Wood Frame Wall R-Value" the following changes are made:  
1360 (i) in the row titled "Climate Zone 3" delete all values and replace with 20+Oci or  
1361 13+5ci or 015ci;  
1362 (ii) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
1363 21+Oci or 15+5ci or 0+15ci; and  
1364 (iii) in the row titled "Climate Zone 6" delete all values and replace with 21+Oci or  
1365 15+5ci or 0+15ci;

1366 (e) in the column titled "Basement Wall R Value" the following changes are made:  
1367 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
1368 15+Oci or 0+11ci or 11+5ci; and  
1369 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or  
1370 0+13ci or 11+5ci;

1371 (f) in the column titled "Slab R Value and Depth" the following changes are made:  
1372 (i) in the row titled "Climate Zone 3" delete 10ci. 2 ft and replace it with NR; and  
1373 (ii) in the row titled "Climate Zone 5 ~~&~~ and Marine 4" delete 4 ft and replace it with  
1374 2 ft; and

1375 (g) in the column titled "Crawl Space Wall R-Value" the following changes are made:  
1376 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
1377 15+Oci or 0+11ci or 11+5ci; and  
1378 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or  
1379 0+13ci or 0+11+5ci.

1380 [12] (13) In IRC, a new subsection N1102.1.5.1 (R402.1.5.1) is added as follows:  
1381 "1102.1.5.1 (R402.1.5.1) RESCheck 2012 Utah Energy Conservation Code.

1382 Compliance with section N1102.1.5 (R402.1.5) may be satisfied using the software  
1383 RESCheck 2012 Utah Energy Conservation Code, which shall satisfy the R-value and  
1384 U-factor requirements of N1102.1, N1102.2, and N1102.3, provided the following  
1385 conditions are met:

1386 (a) in "Climate Zone 5 and 6" the software result shall show 5% better than code; and  
1387 (b) in "Climate Zone 3", the software result shall show 5% better than code when  
1388 software inputs for window U-factor .65 and window SHGC=0.40, notwithstanding  
1389 actual windows installed shall conform to requirements of Tables N1102.1.2  
1390 (R402.1.2) and N1102.1.3 (R402.1.3)."

1391 [13] (14) In IRC, Sections N1102.2.1 (R402.2.1), a new Section N1102.2.1.1 is added as  
1392 follows:

1393 "N1102.2.1.1. Unvented attic and unvented enclosed rafter assemblies. Unvented attic  
1394 and unvented enclosed rafter assemblies conforming to Section R806.5 shall be provided with  
1395 an R-value of R-22 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26  
1396 (maximum U-factor of 0.038) in Climate Zones 5-B and 6-B shall be permitted provided all  
1397 the following conditions are met:

1398 1. The unvented attic assembly complies with the requirements of the International  
1399 Residential Code, R806.5.

1400 2. The house shall attain a blower door test result 2.5ACH 50.

1401 3. The house shall require a whole house mechanical ventilation system that does not  
1402 rely solely on a negative pressure strategy (must be positive, balanced or hybrid).

1403 4. Where insulation is installed below the roof deck and the exposed portion of roof  
1404 rafters are not already covered by the R-20 depth of the air-impermeable insulation, the  
1405 exposed portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly  
1406 covered by drywall/finished ceiling. Roof rafters are not required to be covered by minimum  
1407 R-3 if a continuous insulation is installed above the roof deck.

1408 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be  
1409 inside the building thermal envelope."

1410 [14] (15) In IRC, Section N1102.2.9.1 (R402.2.9.1) the numeral (i) is added before the  
1411 words "cut at a 45 degree" and the following is added after the words "exterior wall": "or  
1412 (ii) lowered from top of slab 4" when a 4" thermal break material such as, but not  
1413 limited to, felt or asphalt impregnated fiber board, with a minimum thickness of 1/4" is  
1414 installed at the upper 4" of slab. [-]

1415 [15] (16) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is

1416 deleted and replaced with the word "or."

1417 [16] (17) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and  
1418 replaced with the following:

1419 "Where allowed by the code official, the builder may certify compliance to  
1420 components criteria for items which may not be inspected during regularly scheduled  
1421 inspections."

1422 [17] (18) In IRC, Table N1102.4.1.1 (R402.4.1.1) in the column titled "COMPONENT,  
1423 the following changes are made:

1424 (a) In the row "Rim Joists" the word "exterior" in the first sentence is deleted, and the  
1425 second sentence is deleted.

1426 (b) In the row "Electrical/phone box on the exterior walls" the last sentence is deleted  
1427 and replaced with: "Alternatively, close cell foam, caulking or gaskets may be used,  
1428 or air sealed boxes may be installed."

1429 [18] (19) In IRC, Section N1102.4.1.2 (R402.4.1.2), the following changes are made:

1430 (a) In the fourth sentence, the word "third" is deleted.

1431 (b) The following sentence is added after the fourth sentence:

1432 "The following parties shall be approved to conduct testing: Parties certified by  
1433 BPI or RESNET, or licensed contractors who have completed training provided by  
1434 Blower Door Test equipment manufacturers or other comparable training."

1435 (c) In the first Exception the second sentence is deleted.

1436 [19] (20) IRC, Section N1103.3.3 (R403.3.3), is deleted.

1437 [20] (21) IRC Section N1103.3.3.1 (R403.3.3.1) is deleted.

1438 [21] (22) In IRC, Section N1103.3.5 (R403.3.5), the following changes are made:

1439 (a) a second Exception is added as follows: "A duct leakage test shall not be required for  
1440 any system designed such that no air handlers or ducts are located within  
1441 unconditioned attics."; and

1442 (b) the following is added at the end of the section:

1443 "The following parties shall be approved to conduct testing:

1444 (i) Parties certified by BPT or RESNET; and

1445 (ii) Licensed contractors who have completed training provided by Duct Test  
1446 equipment manufacturers or other comparable training."

1447 [22] (23) In IRC, Section N1103.3.6 (R403.3.6) the following changes are made:

1448 (a) in Subsection 1:  
1449 (i) the number 4.0 is changed to 6.0;

1450 (ii) the number 113.3 is changed to 170;  
 1451 (iii) the number 3.0 is changed to 5.0; and  
 1452 (iv) the number 85 is changed to 141;  
 1453 (b) in Subsection 2:  
 1454 (i) the number 4.0 is changed to 5.0; and  
 1455 (ii) the number 113.3 is changed to 141; and  
 1456 (c) Subsection 3 is deleted.

1457 [~~(23)~~] (24) In IRC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.  
 1458 [~~(24)~~] (25) In IRC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added  
 1459 at the beginning of the first sentence.

1460 [~~(25)~~] (26) In IRC, Section N1103.5.2 (R403.5.2) the following change is made, Subsections  
 1461 5 and 6 are deleted and Subsection 7 is renumbered to 5.

1462 [~~(26)~~] (27) IRC, Section N1103.6.2 (R403.6.2), is deleted and replaced with the following:

1463 "N1103.6.2 (R403.6.2) Whole-house mechanical ventilation system fan efficacy. Fans  
 1464 used to provide whole-house mechanical ventilation shall meet the efficacy requirements of  
 1465 Table N1103.6.2 (R403.6.2)."

1466 Exception: Where an air handler that is integral to tested and listed HVAC equipment is  
 1467 used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
 1468 electronically commutated motor."

1469 [~~(27)~~] (28) In IRC, Section N1103.6.2 (R403.6.2), the table is deleted and replaced with the  
 1470 following:

1471 "TABLE N1103.6.2 (R403.6.2)",

1472 MECHANICAL VENTILATION SYSTEM FAN EFFICACY

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

1479 [~~(28)~~] (29) IRC, Section N1103.6.3 (R403.6.3) is deleted.

1480 [~~(29)~~] (30) In IRC, Section N1103.7 (R403.7) the word "approved" is deleted in the first

1481 sentence and the following is added after the word "methodologies": "complying with  
1482 N1103.7.1 (R403.7.1)."[.]

1483 [(30)] (31) A new IRC, Section N1103.7.1 (R403.7.1) is added as follows:

1484 "N1103.7.1 Qualifications. An individual performing load calculations shall be qualified  
1485 by completing HVAC training from one of the following:  
1486 1. HVAC load calculation education from ACCA;  
1487 2. A recognized educational institution;  
1488 3. HVAC equipment manufacturer's training; or  
1489 4. Other recognized industry certification."

1490 [(31)] (32) In IRC, Section N1104.1 (R404.1), the word "All" is replaced with "Not less  
1491 than 90 percent of the lamps in."[.]

1492 [(32)] (33) IRC, Section N1104.1.1 (R404.1.1) is deleted.

1493 [(33)] (34) IRC, Section N1104.2 (R404.2) is deleted.

1494 [(34)] (35) IRC, Section N1104.3 (R404.3) is deleted.

1495 [(35)] (36) In IRC, section N1105.2 (R405.2) the following changes are made:

1496 (a) In Subsection 3, the words "approved by the code official" are deleted; and  
1497 (b) In Subsection 3, the following words are added at the end of the sentence: "when  
1498 applicable and readily available."[.]

1499 [(36)] (37) In IRC, Section N1106.3 (R406.3), "Building thermal envelope" is deleted, and  
1500 replaced with the following:

1501 "Building thermal envelope and on-site renewables. The proposed total building  
1502 thermal envelope UA, which is the sum of U-factor times assembly area, shall be less  
1503 than or equal to the building thermal envelope UA using the prescriptive U-factors from  
1504 Table N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The  
1505 area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through 3  
1506 shall be:  $0.30 \cdot UA_{Proposed\ design} = 1.15 \cdot UA_{Prescriptive\ reference\ design}$  (Equation  
1507 11-4)."

1508 [(37)] (38) In IRC, Section N1106.3.1 (R406.3.1) is deleted.

1509 [(38)] (39) In IRC, Section N1106.3.2 (R403.3.2) is deleted.

1510 [(39)] (40) In IRC, Section N1106.4 (R406.4) the following changes are made:

1511 (a) In the first sentence, the words "in accordance with Equation 11-5" are deleted and  
1512 replaced with: "permitted to be calculated using the minimum total air exchange rate  
1513 for the rated home ( $Q_{tot}$ ) and for the index adjustment factor in accordance with  
1514 Equation 11.5.";

1515 (b) In equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:  
1516 "Qtot"; and

1517 (c) In the last sentence the number "5" is deleted and replaced with "15."[-]

1518 [(40)] (41) In IRC, Section N1106.5, in the column titled "ENERGY RATING INDEX" of  
1519 Table R406.5, the following changes are made:

1520 (a) In the row for "Climate Zone 3", "51" is deleted and replaced with "65";  
1521 (b) In the row for "Climate Zone 5", "55" is deleted and replaced with "69"; and  
1522 (c) In the row for "Climate Zone 6", "54" is deleted and replaced with "68."[-]

1523 [(41)] (42) In IRC, Section N1108 (R408) is deleted.

1524 [(42)] (43) In IRC, Section M1401.3 the word "approved" is deleted in the first sentence and  
1525 the following is added after the word "methodologies[-]", "complying with M1401.3.1."[-]

1526 [(43)] (44) A new IRC, Section M1401.3.1, is added as follows:

1527 "M1401.3.1 Qualifications. An individual performing load calculations shall be qualified  
1528 by completing HVAC training from one of the following:

- 1529 1. HVAC load calculation education from ACCA;
- 1530 2. A recognized educational institution;
- 1531 3. HVAC equipment manufacturer's training; or
- 1532 4. Other recognized industry certification."

1533 [(44)] (45) In IRC, Section M1402.1, the following is added at the end of the second  
1534 sentence: "or UL/CSA 60335-2-40."

1535 [(45)] (46) In IRC, Section M1403.1, the characters "/ANCE" are deleted.

1536 [(46)] (47) IRC, Section M1411.9, is deleted.

1537 [(47)] (48) In IRC, Section M1412.1, the characters "/ANCE" are deleted.

1538 [(48)] (49) In IRC, Section M1413.1, the characters "/ANCE" are deleted.

1539 Section 12. Section **15A-3-204** is amended to read:

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

1541 (1) In IRC, Section M1602.2, a new exception is added at the end of Item 7 as follows:

1542 "Exception: The discharge of return air from an accessory dwelling unit into  
1543 another dwelling unit, or into an accessory dwelling unit from another dwelling unit, is  
1544 not prohibited."

1545 (2) A new IRC, Section G2401.2, is added as follows:

1546 "G2401.2 Meter Protection. Fuel gas services shall be in an approved location  
1547 and/or provided with structures designed to protect the fuel gas meter and surrounding  
1548 piping from physical damage, including falling, moving, or migrating ice and snow. If

1549 an added structure is used, it must provide access for service and comply with the IBC  
1550 or the IRC."

1551 (3) In IRC, Section 2503.5.1, #2 Air Test is deleted and replaced with the following:

1552 "Where water is not available at the construction site or where freezing conditions  
1553 limit the use of water on the construction site, plastic drainage and vent pipe may be  
1554 permitted to be tested with air. The following procedures shall be followed:

1555 (a) Proper personal protective equipment, including safety eyewear and protective  
1556 headgear, should be worn by all individuals in any area where an air or gas test is  
1557 being conducted.

1558 (b) Contractor shall take all precautions necessary to limit the pressure within the plastic  
1559 piping.

1560 (c) No drain and vent system shall be pressurized in excess of 6 psi as measured by  
1561 accurate gauges graduated to no more than three times the test pressure.

1562 (d) The pressure gauge shall be monitored during the test period, which should not  
1563 exceed 15 minutes.

1564 (e) At the conclusion of the test, the system shall be depressurized gradually, all trapped  
1565 air or gases should be vented, and test balls and plugs should be removed with  
1566 caution."

1567 (4) In IRC, Section P2503.8, the word "devices" is deleted and replaced with the word  
1568 "assemblies."

1569 (5) IRC, Section P2503.8.2, is deleted and replaced with the following:

1570 "P2503.2 Testing. Reduced pressure principle, double check, pressure vacuum  
1571 breaker, reduced pressure detector fire protection, double check detector fire protections,  
1572 and spill-resistant vacuum breaker backflow preventer assemblies shall be tested at the  
1573 time of installation, immediately after repairs or relocation and at least annually. The [  
1574 ~~Utah Cross-Connection Control Commission~~ Utah Division of Water Quality has  
1575 adopted the field test procedures published by the Manual of Cross Connection Control,  
1576 Tenth Edition. This manual is published by the University of Southern California's  
1577 Foundation for Cross-Connection Control and Hydraulic Research. Test gauges shall  
1578 comply with ASSE 1064."

1579 Section 13. Section **15A-3-205** is amended to read:

1580 **15A-3-205 . Amendments to Chapters 26 through 35 of IRC.**

1581 (1) IRC, Section P2602.1, is deleted and replaced with the following:

1582 "P2602.1 General. The water-distribution system of any building or premises where

1583 plumbing fixtures are installed shall be connected to a public water supply. Where a potable  
1584 public water supply is not available, individual sources of potable water supply shall be  
1585 utilized provided that the source has been developed in accordance with Utah Code Sections  
1586 73-3-1, 73-3-3, and 73-3-25, as administered by the Department of Natural Resources,  
1587 Division of Water Rights. In addition, the quality of the water shall be approved by the local  
1588 health department having jurisdiction. The source shall supply sufficient quantity of water to  
1589 comply with the requirements of this chapter.

1590 Every building in which plumbing fixtures are installed and all premises having drainage  
1591 piping shall be connected to a public sewer where the sewer is accessible and is within 300  
1592 feet of the property line in accordance with Utah Code Section 10-8-38, or an approved private  
1593 sewage disposal system in accordance with Utah Administrative Code, Rule R317-4, as  
1594 administered by the Department of Environmental Quality, Division of Water Quality.

1595 Exception: Sanitary drainage piping and systems that convey only the discharge from  
1596 bathtubs, showers, lavatories, clothes washers, and laundry trays shall not be required to  
1597 connect to a public sewer or to a private sewage disposal system provided that the piping or  
1598 systems are connected to a system in accordance with Sections P2910 or P2911."

1599 (2) A new IRC, Section P2602.3, is added as follows:

1600 "P2602.3 Individual water supply. Where a potable public water supply is not  
1601 available, individual sources of potable water supply shall be utilized, provided that the  
1602 source has been developed in accordance with Utah Code, Sections 73-3-1 and 73-3-25,  
1603 as administered by the Department of Natural Resources, Division of Water Rights. In  
1604 addition, the quality of the water shall be approved by the local health department  
1605 having jurisdiction."

1606 (3) A new IRC, Section P2602.4, is added as follows:

1607 "P2602.4 Sewer required. Every building in which plumbing fixtures are installed and  
1608 all premises having drainage piping shall be connected to a public sewer where the sewer is  
1609 accessible and is within 300 feet of the property line in accordance with Utah Code, Section  
1610 10-8-38; or an approved private sewage disposal system in accordance with Utah  
1611 Administrative Code,

1612 Chapter 4, Rule R317, as administered by the Department of Environmental Quality,  
1613 Division of Water Quality."

1614 (4) In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are deleted.

1615 (5) In IRC, Section P2705, a new Item 9 is added as follows and the remaining item  
1616 numbers are renumbered accordingly:

1617 "9. Lavatories. A lavatory shall not be set closer than 12 inches from its center to  
1618 any side wall or partition. A lavatory shall be provided with a clearance of 24 inches in  
1619 width and 21 inches in depth in front of the lavatory to any side wall, partition, or  
1620 obstruction." [Remaining item numbers are renumbered accordingly.]

1621 (6) In IRC, Section P2801.6.2, the following is added at the end of the section:

1622 "When permitted by the code official, the pan drain may be directly connected to a  
1623 soil stack, waste stack, or branch drain. The pan drain shall be individually trapped and  
1624 vented as required in Section 907.1. The pan drain shall not be directly or indirectly  
1625 connected to any vent. The trap shall be provided with a trap primer conforming to  
1626 ASSE 1018 or ASSE 1044, a barrier type floor drain trap seal protection device meeting  
1627 ASSE 1072, or a deep seal p-trap."

1628 (7) A new IRC, Section P2801.6.3, is added as follows:

1629 "P2801.6.3 Pan designation. A water heater pan shall be considered an emergency  
1630 receptor designated to receive the discharge of water from the water heater only and  
1631 shall not receive the discharge from any other fixtures, devices, or equipment."

1632 (8) IRC, Section P2801.8, is deleted and replaced with the following:

1633 "P2801.8 Water heater seismic bracing. As a minimum requirement, water heaters  
1634 shall be anchored or strapped to resist horizontal displacement caused by earthquake  
1635 motion. Strapping shall be at points within the upper one-third and lower one-third of  
1636 the appliance's vertical dimensions.

1637 (9) In IRC, Section P2804.6.1, a new number 15 is added as follows:

1638 "15. Be installed in accordance with the manufacturer's installation instructions, not  
1639 to exceed 180 degrees in directional changes."

1640 (10) A new IRC, Section P2902.1.1, is added as follows:

1641 [-]"P2902.1.1 Backflow assembly testing. Reduced pressure principle, double  
1642 check, pressure vacuum breaker, reduced pressure detector fire protection, double check  
1643 detector fire protection, and spill-resistant vacuum breaker backflow preventer  
1644 assemblies shall be tested at the time of installation, immediately after repairs or  
1645 relocation and at least annually. The Utah Cross Connection Control Commission  
1646 Division of Water Quality has adopted the field test procedures published by the Manual  
1647 of Cross Connection Control, Tenth Edition. This manual is published by the University  
1648 of Southern California's Foundation for Cross-Connection Control and Hydraulic  
1649 Research. Test gauges shall comply with ASSE 1064."

1650 (11) In IRC, Section P2902.1, the following subsections are added as follows:

1651 "P2902.1.1 General Installation Criteria.

1652 Assemblies shall not be installed more than five feet above the floor unless a permanent  
1653 platform is installed. The assembly owner, where necessary, shall provide devices or  
1654 structures to facilitate testing, repair, and maintenance, and to insure the safety of the backflow  
1655 technician.

1656 P2902.1.2 Specific Installation Criteria.

1657 P2902.1.3 Reduced Pressure Principle Backflow Prevention Assembly.

1658 The reduced pressure principle backflow prevention assembly shall be installed as  
1659 follows:

1660 a. The assembly may not be installed in a pit or below grade where the relief port could  
1661 be submerged in water or where fumes could be present at the relief port discharge.

1662 b. The relief valve of the assembly shall not be directly connected to a waste disposal  
1663 line, including a sanitary sewer, a storm drain, or a vent.

1664 c. The assembly shall be installed in a horizontal position only, unless listed or approved  
1665 for vertical installation in accordance with Section 303.4 of the International Plumbing Code  
1666 as amended in Utah Code, Subsection 15A-3-303(1).

1667 d. The bottom of the assembly shall be installed a minimum of 12 inches above the floor  
1668 or ground.

1669 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1670 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1671 P2902.1.4 Double Check Valve Backflow Prevention Assembly.

1672 A double check valve backflow prevention assembly shall be installed as follows:

1673 a. The assembly shall be installed in a horizontal position only, unless listed or approved  
1674 for vertical installation.

1675 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or  
1676 floor.

1677 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1678 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1679 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of  
1680 clearance between all sides of the vault, including the floor and roof or ceiling, with adequate  
1681 room for testing and maintenance.

1682 P2902.1.5 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum  
1683 Breaker Assembly.

1684 A pressure vacuum break assembly or a spill resistant pressure vacuum breaker

1685 assembly shall be installed as follows:

1686 a. The assembly shall not be installed in an area that could be subject to backpressure or  
1687 back drainage conditions.

1688 b. The assembly shall be installed a minimum of 12 inches above all downstream piping  
1689 and the highest point of use.

1690 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle,  
1691 and shall be readily accessible for testing, repair, and maintenance.

1692 d. The assembly shall not be installed below ground, in a vault, or in a pit.

1693 e. The assembly shall be installed in a vertical position."

1694 (12) In IRC, Table 2903.2, the following changes are made in the column titled

1695 "MAXIMUM FLOW RATE OR QUANTITY":

1696 (a) In the row titled "Lavatory faucet" the text is deleted and replaced with "1.5 gpm at  
1697 60 psi, [.]

1698 (b) In the row titled "Shower head" the text is deleted and replaced with "2 gpm at 80 psi,  
1699 [.]

1700 (13) In IRC, Section P2903.3, the words "public water main or an" are deleted and the

1701 following sentence is added at the end:

1702 "A water pressure booster pump may not be connected to a public water main  
1703 unless allowed by Utah Administrative Code, Rule R309-540."

1704 (14) In IRC, Section 2903.5, at the beginning of the second sentence, insert "If installed,."

1705 (15) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the  
1706 following:

1707 "Unless the plumbing appliance or plumbing fixture has a wall-mount valve,  
1708 shutoff valves shall be required on each fixture supply pipe to each plumbing appliance  
1709 and to each plumbing fixture other than bathtubs and showers."

1710 (16) IRC, Section P2910.5, is deleted and replaced with the following:

1711 "P2910.5 Potable water connections.

1712 A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a  
1713 connection to the potable water system for backup must install a Reduced Pressure Principle  
1714 Assembly (RP) directly downstream of the potable water connection (Stop and Waste) and  
1715 install a "dual source connection" directly downstream from the (RP) installed so that either  
1716 the potable water system or the nonpotable water is connected at any time to prevent a direct  
1717 Cross Connection and to protect the potable water from any potential hazard from the  
1718 nonpotable water system. See Utah Code Section 19-4-112. Note: RP must be tested within 10

1719 days of installation and annually whether the drinking water is used or not."

1720 (17) IRC, Section P2910.9.5, is deleted and replaced with the following:

1721 "P2910.9.5 Makeup water.

1722 Where an uninterrupted nonpotable water supply is required for the intended application,  
1723 potable or reclaimed water shall be provided as a source of makeup water for the storage tank.  
1724 The makeup water supply shall be protected against backflow by means of an air gap not less  
1725 than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow  
1726 prevention assembly installed in accordance with Section 2902."

1727 (18) In IRC, Section P2911.12.4, the following words are deleted: "and backwater valves."

1728 (19) In IRC, Section P2912.15.6, the following words are deleted: "and backwater valves."

1729 (20) In IRC, Section P3007.3.3.1, the words "stainless steel, cast iron, galvanized steel,  
1730 brass" are added after the word "PE."

1731 (21) IRC, Section P3009, is deleted and replaced with the following:

1732 "P3009 Graywater soil absorption systems: Graywater recycling systems utilized for  
1733 subsurface irrigation for single-family residences shall comply with the requirements of Utah  
1734 Administrative Code, R317-401, Graywater Systems. Graywater recycling systems utilized for  
1735 subsurface irrigation for other occupancies shall comply with Utah Administrative Code,  
1736 R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal Systems,  
1737 and Utah Administrative Code, R317-4, Onsite Wastewater Systems."

1738 (22) In IRC, Section P3101.4, the following sentence is added at the end of the paragraph:

1739 "Vents extending through the wall shall terminate not less than 12 inches from the  
1740 wall with an elbow pointing downward."

1741 (23) In IRC, Section P3104.4, the following sentence is added at the end of the paragraph:

1742 "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
1743 and floor sink installations when installed below grade in accordance with Chapter 30,  
1744 and Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical  
1745 vent."

1746 (24) In IRC, Section E3401.2, the second sentence is modified by adding the words  
1747 "townhouses" [;] after the word "dwellings" and the word "their" before the word  
1748 "accessory" and the following is added after "NFPA 70", "such as, but not limited to the  
1749 following equipment:

1750 (a) fixed outdoor electric deicing and snow-melting equipment;  
1751 (b) motors;  
1752 (c) generators;

1753 (d) transformers;  
1754 (e) phase converters;  
1755 (f) stationary standby batteries;  
1756 (g) elevators;  
1757 (h) dumbwaiters;  
1758 (i) platform lifts;  
1759 (j) stairway chairlifts;  
1760 (k) electric vehicle power transfer systems;  
1761 (l) electric welders;  
1762 (m) audio signal processing, amplification, and reproduction equipment;  
1763 (n) information technology equipment;  
1764 (o) solar photovoltaic (PV) systems;  
1765 (p) optional standby systems;  
1766 (q) interconnected electric power production sources;  
1767 (r) energy storage systems; and  
1768 (s) energy management systems."

1769 Section 14. Section **15A-3-302** is amended to read:

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

1770 (1) In IPC, Section 202, the following definition is added:

1771 "Utah Certified Backflow Preventer Assembly Tester. A person who has shown  
1772 competence to test Backflow prevention assemblies to the satisfaction of the authority  
1773 having jurisdiction under Utah Code, Subsection 19-4-104(4) and Utah Administrative  
1774 Code, R309-305."

1775 (2) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced with  
1776 the following:

1777 "Cross Connection. Any physical connection or potential connection or  
1778 arrangement between two otherwise separate piping systems, one of which contains  
1779 potable water and the other either water of unknown or questionable safety or steam,  
1780 gas, or chemical, whereby there exists the possibility for flow from one system to the  
1781 other, with the direction of flow depending on the pressure differential between the two  
1782 systems (see "Backflow")."

1783 (3) In IPC, Section 202, the following definition is added:

1784 "Deep Seal Trap. A manufactured or field fabricated trap with a liquid seal of 4"  
1785 or larger."

1787 (4) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is deleted and  
1788 replaced with the following:

1789 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids, including propylene  
1790 glycol and mineral oil."

1791 (5) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted and  
1792 replaced with the following:

1793 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any  
1794 fluid that is not an essentially nontoxic transfer fluid under this code."

1795 (6) In IPC, Section 202, the following definition is added:

1796 "Motor Vehicle Waste Disposal Well. An injection well that discharges to the  
1797 subsurface by way of a floor drain, septic system, French drain, dry well, or similar  
1798 system that receives or has received fluid from a facility engaged in vehicular repair or  
1799 maintenance activities, including an auto body repair shop, automotive repair shop, new  
1800 and used car dealership, speciality repair shop, or any other facility that does any  
1801 vehicular repair work. A motor vehicle waste disposal well is subject to rulemaking  
1802 under Section 19-5-104 regarding underground injection."

1803 (7) In IPC, Section 202, the definition for "Potable Water" is deleted and replaced with the  
1804 following:

1805 "Potable Water. Water free from impurities present in amounts sufficient to cause  
1806 disease or harmful physiological effects and conforming to the Utah Code, Title 19,  
1807 Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and the  
1808 regulations of the public health authority having jurisdiction."

1809 (8) In IPC, Section 202, the following definition is added for [Dual Source Connection] dual  
1810 source connection:

1811 " [Dual Source Connection] **DUAL SOURCE CONNECTION**. A pipe that is  
1812 installed so that either the nonpotable (i.e. secondary) irrigation water or the potable  
1813 water is connected to a pressurized irrigation system at one time, but not both at the  
1814 same time; or a pipe that is installed so that either the potable water or private well water  
1815 is connected to a residence at one time, not both at the same time. The potable water  
1816 supply line shall be protected by a reduced pressure backflow preventer."

1817 (9) In IPC, Section 202, the definition for individual water supply is deleted and replaced  
1818 with the following:

1819 "INDIVIDUAL WATER SUPPLY. A water supply that is not served by a Public  
1820 Water System, as defined by Utah Administrative Code, R309-100."

1821 (10) In IPC, Section 202, the definition for public water main is deleted and replaced with  
1822 the following:

1823 "PUBLIC WATER MAIN. A water supply pipe owned by a Public Water System, as  
1824 defined in Utah Administrative Code, R309-100."

1825 (11) In IPC, Section 202, the following definition is added for public water supply:  
1826 "PUBLIC WATER SUPPLY. A water supply that is served by a Public Water  
1827 System, as defined in Utah Administrative Code, R309-100."

1828 Section 15. Section **15A-3-303** is amended to read:

1829 **15A-3-303 . Amendments to Chapter 3 of IPC.**

1830 (1) In IPC, Section 303.4, the following exception is added:

1831 "Exception: Third-party standards and certification for approval of backflow prevention  
1832 assemblies [will] shall consist of any combination of two [certifications, laboratory or field].  
1833 Acceptable third party laboratory certifying agencies are ASSE, IAPMO, and USC-FCCCHR.  
1834 USC-FCCCHR currently provides the only field testing of backflow protection assemblies.]  
1835 approvals from a third-party laboratory, and a recognized listed organization that performs a  
1836 laboratory performance evaluation and a one-year field performance evaluation. Also see  
1837 www.drinkingwater.utah.gov and Division of Drinking Water Rule, Utah Administrative  
1838 Code, R309-105-12(4)."

1839 [(2) IPC, Section 311.1, is deleted.]

1840 [(3)] (2) In IPC, Section 306.2.4, the following sentence is added after the last sentence:

1841 "Access shall be provided to the tracer wire at both ends or both ends of the tracer  
1842 wire shall be terminated at the cleanout."

1843 (3) In IPC, Section 312.3, the following is added at the end of the paragraph:

1844 "Where water is not available at the construction site or where freezing conditions limit  
1845 the use of water on the construction site, plastic drainage and vent pipe may be permitted to be  
1846 tested with air. The following procedures shall be followed:

1847 1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and  
1848 can explode, causing serious injury or death.

1849 2. Contractor assumes all liability for injury or death to persons or damage to property  
1850 or for claims for labor and/or material arising from any alleged failure of the system during  
1851 testing with air or compressed gasses.

1852 3. Proper personal protective equipment, including safety eyewear and protective  
1853 headgear, should be worn by all individuals in any area where an air or gas test is being  
1854 conducted.

1855           4. Contractor shall take all precautions necessary to limit the pressure within the plastic  
1856           piping.

1857           5. No drain and vent system shall be pressurized in excess of 6 psi as measured by  
1858           accurate gauges graduated to no more than three times the test pressure.

1859           6. The pressure gauge shall be monitored during the test period, which should not  
1860           exceed 15 minutes.

1861           7. At the conclusion of the test, the system shall be depressurized gradually, all trapped  
1862           air or gases should be vented, and test balls and plugs should be removed with caution."

1863 (4) In IPC, [Section 312.5] Section 312.6, the following is added at the end of the paragraph:

1864           "Where water is not available at the construction site or where freezing conditions limit  
1865           the use of water on the construction site, plastic water pipes may be permitted to be tested with  
1866           air. The following procedures shall be followed:

1867           1. Contractor shall recognize that plastic is extremely brittle at lower temperatures and  
1868           can explode, causing serious injury or death.

1869           2. Contractor assumes all liability for injury or death to persons or damage to property  
1870           or for claims for labor and/or material arising from any alleged failure of the system during  
1871           testing with air or compressed gasses.

1872           3. Proper personal protective equipment, including safety eyewear and protective  
1873           headgear, should be worn by all individuals in any area where an air or gas test is being  
1874           conducted.

1875           4. Contractor shall take all precautions necessary to limit the pressure within the plastic  
1876           piping.

1877           5. Water supply systems shall be pressure tested to a minimum of 50 psi but not more  
1878           than 80 psi as measured by accurate gauges graduated to no more than three times the test  
1879           pressure.

1880           6. The pressure gauge shall be monitored during the test period, which should not  
1881           exceed 15 minutes.

1882           7. At the conclusion of the test, the system shall be depressurized gradually, all trapped  
1883           air or gases should be vented, and test balls and plugs should be removed with caution."

1884 (5) IPC, [Section 312.10.2] Section 312.11.2, is deleted and replaced with the following:

1885           "[312.10.2] 312.11.2 Testing. Reduced pressure principle, double check, pressure  
1886           vacuum breaker, reduced pressure detector fire protection, double check detector fire  
1887           protection, and spill-resistant vacuum breaker backflow preventer assemblies shall be tested at  
1888           the time of installation or within 10 days of being placed into service, immediately after repairs

1889 or relocation and at least annually. The [Utah Cross Connection Control Commission] Utah  
1890 Division of Water Quality has adopted the field test procedures published by the Manual of  
1891 Cross-Connection Control, Tenth Edition. This manual is published by the University of  
1892 Southern California's Foundation for Cross-Connection Control and Hydraulic Research. Test  
1893 gauges shall comply with ASSE 1064."

1894 (6) A new IPC, [Section 312.10.3] Section 312.11.3, is added as follows:  
1895 "[312.10.3] 312.11.3 Tester Qualifications. Testing shall be performed by a Utah  
1896 Certified Backflow Assembly Tester in accordance with Utah Administrative Code,  
1897 R309-305."

1898 Section 16. Section **15A-3-304** is amended to read:

1899 **15A-3-304 . Amendments to Chapter 4 of IPC.**

1900 (1) In IPC, Table 403.1, the following changes are made:  
1901 (a) In row number "3", for in the field for "OTHER", a new footnote h is added.  
1902 (b) In row number "5", for "Adult day care and child day care" occupancy, in the field  
1903 for "OTHER", a new footnote h is added.  
1904 (c) Footnote f is deleted and replaced with the following: "FOOTNOTE f: The required  
1905 number and type of plumbing fixtures for outdoor public swimming pools shall be in  
1906 accordance with Utah Administrative Code, R392-302, Design, Construction and  
1907 Operation of Public Pools."  
1908 (d) A new footnote g is added as follows:

1909 "FOOTNOTE[:]: g: When provided, in public toilet facilities, there shall be an  
1910 equal number of diaper changing facilities in male toilet rooms and female toilet  
1911 rooms. Diaper changing facilities shall meet the requirements of ASTM F2285-04  
1912 (2010) Standard Consumer Safety Performance Specifications for Diaper Changing  
1913 Tables for Commercial Use."

1914 (e) A new footnote h is added to the table as follows:  
1915 [-]"FOOTNOTE h: Non-residential child care facilities shall comply with the  
1916 additional sink requirements of Utah Administrative Code, R381-60-9, Hourly Child  
1917 Care Centers, R381-70-9, Out of School Time Child Care Programs, and  
1918 R381-100-9, Child Care Centers."

1919 (2) In IPC, Section 403.1.1, Exception 2 is deleted and replaced with the following:  
1920 "2. Where multiple-user facilities are designed to serve all genders, the following  
1921 shall apply:  
1922 2.1. The maximum fixture count to serve all genders shall be calculated at 50% of the

1923 total occupant load. The maximum fixture count for the multiple user all gender facility  
1924 shall be calculated at 50% female and 50% male.

1925 2.2 The remaining 50% of the required restroom fixtures shall be provided as  
1926 required by Table 403.1."

1927 [(2)] (3) In IPC, Section 405.3.4, the following sentence is added after the first sentence:

1928 "For facilities designed for use by all genders in the same room, the partitions of  
1929 the stalls shall extend from the floor to the ceiling."

1930 [(3)] (4) In IPC, Section 405.3.5, the following sentence is added at the end of the first  
1931 paragraph:

1932 "For facilities designed for use by all genders in the same room, the partitions of  
1933 the stalls shall extend from the floor to the ceiling."

1934 [(4)] (5) A new IPC, Section 406.3, is added as follows:

1935 "406.3 Automatic clothes washer safe pans. Safe pans, when installed under  
1936 automatic clothes washers, shall be installed in accordance with Section 504.7."

1937 (6) In IPC, Section 412.2, the following is added at the end of the sentence: "-2020."

1938 [(5)] (7) A new IPC, Section 413.5, is added as follows:

1939 "413.5 Public toilet rooms. All public toilet rooms shall be equipped with at least  
1940 one floor drain."

1941 [(6)] (8) A new IPC, Section 413.6, is added as follows:

1942 "Prohibition of motor vehicle waste disposal wells. New and existing motor  
1943 vehicle waste disposal wells are prohibited. A motor vehicle waste disposal well  
1944 associated with a single family residence is not subject to this prohibition."

1945 [(7)] (9) IPC, Section 423.3, is deleted.

1946 Section 17. Section **15A-3-306** is amended to read:

1947 **15A-3-306 . Amendments to Chapter 6 of IPC.**

1948 (1) IPC, Section 602.3, is deleted and replaced with the following:

1949 "602.3 Individual water supply. Where a potable public water supply is not  
1950 available, individual sources of potable water supply shall be utilized provided that the  
1951 source has been developed in accordance with Utah Code, Sections 73-3-1, 73-3-3, and  
1952 73-3-25, as administered by the Department of Natural Resources, Division of Water  
1953 Rights. In addition, the quality of the water shall be approved by the local health  
1954 department having jurisdiction. The source shall supply sufficient quantity of water to  
1955 comply with the requirements of this chapter."

1956 (2) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are deleted.

1957 (3) In IPC, Table 604.4, the following changes are made in the column titled "MAXIMUM  
1958 FLOW RATE OR QUANTITY":  
1959 (a) In the row titled "Lavatory, private" the text is deleted and replaced with "1.5 gpm at  
1960 60 psi."[.]  
1961 (b) In the row titled "Shower head" the text is deleted and replaced with "2 gpm at 80 psi.  
1962 "[.]  
1963 (c) In the row titled "Urinal" the text is deleted and replaced with "0.5 gallon per  
1964 flushing cycle."[.]  
1965 (4) A new IPC, Section 604.4.1, is added as follows:  
1966 "604.4.1 Manually operated metering faucets for food service establishments.  
1967 Self closing or manually operated metering faucets shall provide a flow of water for at  
1968 least 15 seconds without the need to reactivate the faucet."  
1969 (5) IPC, Section 606.5, is deleted and replaced with the following:  
1970 "606.5 Water pressure booster systems. Water pressure booster systems shall be  
1971 provided as required by Section 606.5.1 through 606.5.11."  
1972 (6) In IPC, Section 606.5.1, the words "public water main or" are deleted.  
1973 (7) A new IPC, Section 606.5.11, is added as follows:  
1974 "606.5.11 Water pressure booster pumps connected to a public water main. A  
1975 water pressure booster pump shall not be connected to a public water main unless  
1976 allowed by Utah Administrative Code, Rule R309-540."  
1977 (8) In IPC, Section 608.1, the words "and pollution" are added after the word  
1978 "contamination."  
1979 (9) In IPC, Section 608.1, the following subsections are added as follows:  
1980 "608.1.1 General Installation Criteria.  
1981 An assembly shall not be installed more than five feet above the floor unless a  
1982 permanent platform is installed. The assembly owner, where necessary, shall provide devices  
1983 or structures to facilitate testing, repair, and maintenance and to insure the safety of the  
1984 backflow technician.  
1985 608.1.2 Specific Installation Criteria.  
1986 608.1.2.1 Reduced Pressure Principle Backflow Prevention Assembly.  
1987 A reduced pressure principle backflow prevention assembly shall be installed as follows:  
1988 a. The assembly shall not be installed in a pit or below grade where the relief port could  
1989 be submerged in water or where fumes could be present at the relief port discharge.  
1990 b. The relief valve of the assembly shall not be directly connected to a waste disposal

1991 line, including a sanitary sewer, storm drain, or vent.

1992 c. The assembly shall be installed in a horizontal position, unless the assembly is listed  
1993 or approved for vertical installation in accordance with Section 303.4.

1994 d. The bottom of each assembly shall be installed a minimum of 12 inches above the  
1995 ground or the floor.

1996 e. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
1997 obstacle, and shall be readily accessible for testing, repair, and maintenance.

1998 608.1.2.2 Double Check Valve Backflow Prevention Assembly.

1999 A double check valve backflow prevention assembly shall be installed as follows:

2000 a. The assembly shall be installed in a horizontal position unless the assembly is listed or  
2001 approved for vertical installation.

2002 b. The bottom of the assembly shall be a minimum of 12 inches above the ground or the  
2003 floor.

2004 c. The body of the assembly shall be a minimum of 12 inches from any wall, ceiling, or  
2005 obstacle, and shall be readily accessible for testing, repair, and maintenance.

2006 d. If installed in a pit, the assembly shall be installed with a minimum of 12 inches of  
2007 clearance around all sides of the vault, including the floor and roof or ceiling, with adequate  
2008 room for testing and maintenance.

2009 608.1.2.3 Pressure Vacuum Breaker Assembly and Spill Resistant Pressure Vacuum  
2010 Breaker Assembly.

2011 A pressure vacuum breaker assembly and spill resistant pressure vacuum breaker  
2012 assembly shall be installed as follows:

2013 a. The assembly shall not be installed in an area that could be subject to backpressure or  
2014 back drainage conditions.

2015 b. The assembly shall be installed a minimum of 12 inches above all downstream piping  
2016 and the highest point of use.

2017 c. The assembly shall be a minimum of 12 inches from any wall, ceiling, or obstacle,  
2018 and shall be readily accessible for testing, repair, and maintenance.

2019 d. The assembly shall not be installed below ground or in a vault or pit.

2020 e. The assembly shall be installed in a vertical position."

2021 (10) In Table 608.1, under Backflow preventer plumbing devices, the following is added:

<u>Hand-held Showers</u>	<u>High or Low Hazard</u>	<u>Backpressure or</u> <u>Backsiphonage</u>	<u>ASME 112.18.3</u> <u>or ASSE 1014</u>
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2023 [10] (11) In IPC, Section 608.3, the word "and" before the word "contamination" is deleted

2024 and replaced with a comma and the words "[‐]or pollution" are added after the word  
2025 "contamination" in the first sentence.

2026 [(11)] (12) In IPC, Section 608.6, the words "with the potential to create a condition of  
2027 either contamination or pollution or" are added after the word "substances."

2028 [(12)] (13) In IPC, Section 608.7, the following sentence is added at the end of the  
2029 paragraph:

2030 "Any connection between potable water piping and sewer-connected waste shall  
2031 be protected by an air gap in accordance with Section 608.14.1."

2032 [(13)] (14) IPC, Section 608.8, is deleted and replaced with the following:

2033 ~~[‐] 608.8 Stop and Waste Valves~~ 608.8 Stop-and-waste valves installed below  
2034 grade. Combination stop-and-waste valves shall be permitted to be installed  
2035 underground or below grade. Freeze proof yard hydrants that drain the riser into the  
2036 ground are considered to be stop-and-waste valves and shall be permitted. A  
2037 stop-and-waste valve shall be installed in accordance with a manufacturer's  
2038 recommended installation instructions."

2039 [(14)] (15) IPC, Section 608.14.3, is deleted and replaced with the following: [‐]  
2040 608.14.3 Backflow preventer with intermediate atmospheric vent. Backflow preventers  
2041 with intermediate atmospheric vents shall conform to ASSE 1012 or CSA CAN/CSA-B64.3.  
2042 These devices shall be permitted to be installed on residential boilers, without chemical  
2043 treatment, where subject to continuous pressure conditions, and humidifiers in accordance with  
2044 Section 608.17.10. The relief opening shall discharge by air gap and shall be prevented from  
2045 being submerged."

2046 [(15)] (16) IPC, Section 608.14.4, is deleted.

2047 [(16)] (17) IPC, Section 608.16.3, is deleted and replaced with the following:

2048 [‐] 608.16.3 Protection by a backflow preventer with intermediate atmospheric  
2049 vent. Connections to residential boilers only, without chemical treatment, and  
2050 humidifiers shall be protected by a backflow preventer with an intermediate atmospheric  
2051 vent."

2052 [(17)] (18) IPC, Section 608.16.4, is deleted and replaced with the following:

2053 [‐] 608.16.4 Protection by a vacuum breaker. Openings and outlets shall be  
2054 protected by atmospheric-type or pressure-type vacuum breakers. Vacuum breakers  
2055 shall not be installed under exhaust hoods or similar locations that will contain toxic  
2056 fumes or vapors. Fill valves shall be set in accordance with Section 415.3.1.  
2057 Atmospheric Vacuum Breakers - The critical level of the atmospheric vacuum breaker

2058 shall be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or  
2059 device. Pipe-applied vacuum breakers shall be installed at the highest point, but not less  
2060 than 6 inches (152 mm) above the flood level rim of the fixture, receptor, or device  
2061 served. No valves shall be installed downstream of the atmospheric vacuum breaker.  
2062 The atmospheric vacuum breaker shall not be installed where it may be subjected to  
2063 continuous pressure for more than 12 consecutive hours at any time. Pressure Vacuum  
2064 Breaker - The critical level of the pressure vacuum breaker shall be set a minimum of 12  
2065 inches (304 mm) above the flood level of the fixture device and above all downstream  
2066 piping and the highest point of use."

2067 [18] (19) In IPC, Section 608.16.4.2, the following is added after the first sentence:

2068 "Add-on-backflow prevention devices shall be non-removable. In climates where  
2069 freezing temperatures occur, a listed self-draining frost proof hose bibb with an integral  
2070 backflow preventer shall be used."

2071 [19] (20) In IPC, Section 608.17.1.2, the words "or ASSE 1024" are deleted.

2072 [20] (21) IPC, Section 608.17.2, is deleted and replaced as follows:

2073 [ ] "608.17.2 Connections to boilers. The potable supply to a boiler shall be protected  
2074 by an air gap or a reduced pressure principle backflow preventer, complying with ASSE 1013,  
2075 CSA B64.4 or AWWA C511.

2076 Exception: The potable supply to a residential boiler without chemical treatment may be  
2077 equipped with a backflow preventer with an intermediate atmospheric vent complying with  
2078 ASSE 1012, ASSE 1081.1, or CSA CAN/CSA-B64.3."

2079 [21] (22) In IPC, Section 608.17.4.1, a new exception is added as follows:

2080 "Exception: All class 1 and 2 systems containing chemical additives consisting of  
2081 strictly glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol shall be  
2082 protected against backflow with a double check valve assembly or double check valve  
2083 detector assembly. Such systems shall include written certification of the chemical  
2084 additives at the time of original installation and service or maintenance."

2085 [22] (23) IPC, Section 608.17.7, is deleted and replaced with the following:

2086 [ ] "608.17.7 Chemical dispensers. Where chemical dispensers connect to the  
2087 water distribution system, the water supply system shall be protected against backflow  
2088 in accordance with Section 608.14.1, Section 608.14.2, Section 608.14.5, Section  
2089 608.14.6 or Section 608.14.8. Installation shall be in accordance with Section 608.1.2.  
2090 Chemical dispensers shall connect to a separate dedicated water supply line, and not  
2091 downstream of an atmospheric vacuum breaker."

2092 [({23})] (24) IPC, Section 608.17.8, is deleted and replaced with the following:

2093 ["] "608.17.8 Portable cleaning equipment. Where the portable cleaning  
2094 equipment connects to the water distribution system, the water supply system shall be  
2095 protected against backflow in accordance with Section 608.14.1 or Section 608.14.2."

2096 [({24})] (25) A new IPC, Section 608.17.11, is added as follows:

2097 ["] "608.17.11 Automatic and coin operated car washes. The water supply to an  
2098 automatic or coin operated car wash shall be protected in accordance with Section  
2099 608.14.2."

2100 [({25})] (26) IPC, Section 608.18, is deleted and replaced with the following:

2101 ["] "608.18 Protection of individual water supplies. See Section 602.3 for  
2102 requirements."

2103 Section 18. Section **15A-3-313** is amended to read:

2104 **15A-3-313 . Amendments to Chapter 13 of IPC.**

2105 (1) A new IPC, Section 1301.4.1, is added as follows:

2106 "1301.4.1 Recording.

2107 The existence of a nonpotable water system shall be recorded on the deed of ownership  
2108 for the property. The certificate of occupancy shall not be issued until the documentation for  
2109 the recording required under this section is completed by the property owner."

2110 (2) IPC, Section 1301.5, is deleted and replaced with the following:

2111 "1301.5 Potable water connections.

2112 Where a potable water system is connected to a nonpotable water system, the potable  
2113 water supply shall be protected against backflow by a reduced pressure backflow prevention  
2114 assembly or an air gap installed in accordance with Section 608."

2115 (3) In IPC, a new Section 1301.5.1 is added as follows:

2116 "1301.5.1 Potable water connections.

2117 A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a  
2118 connection to the potable water system for backup must install a Reduced Pressure  
2119 Principle Assembly (RP) directly downstream of the potable water connection (Stop and  
2120 Waste) and install a dual source connection directly downstream from the (RP) installed  
2121 so that either the potable water system or the nonpotable water is connected at any time  
2122 to prevent a direct Cross Connection and to protect the potable water from any potential  
2123 hazard from the nonpotable water system. See Utah Code Section 19-4-112. Note: RP  
2124 must be tested within 10 days of installation and annually whether the drinking water is  
2125 used or not."

2126 (4) IPC, Section 1301.9.4, is deleted and replaced with the following:

2127 "[~~1301.9.4~~ Makeup water.

2128 Where an uninterrupted supply is required for the intended application, potable or  
 2129 reclaimed water shall be provided as a source of makeup water for the storage tank. The  
 2130 makeup water supply shall be protected against backflow by a reduced pressure backflow  
 2131 prevention assembly or an air gap installed in accordance with Section 608. A full-open valve  
 2132 located on the makeup water supply line to the storage tank shall be provided. Inlets to the  
 2133 storage tank shall be controlled by fill valves or other automatic supply valves installed to  
 2134 prevent the tank from overflowing and to prevent the water level from dropping below a  
 2135 predetermined point. Where makeup water is provided, the water level shall not be permitted  
 2136 to drop below the source water inlet or the intake of any attached pump."

2137 (5) IPC, Section 1302.12.4, is deleted and replaced with the following:

2138 "1302.12.4 Inspection and testing of backflow prevention assemblies.

2139 Testing of a backflow preventer shall be conducted in accordance with [Sections  
 2140 ~~312.10.1, 312.10.2, and 312.10.3~~ Sections 312.11.1 and 312.11.2.]

2141 (6) IPC, Section 1303.15.6, is deleted and replaced with the following:

2142 "1303.15.6 Inspection and testing of backflow prevention assemblies.

2143 Testing of a backflow prevention assembly shall be conducted in accordance with [  
 2144 ~~Sections 312.10.1, 312.10.2, and 312.10.3~~ Sections 312.11.1, 312.11.2, and 312.11.3.]

2145 (7) IPC, Section 1304.4.2, is deleted and replaced with the following:

2146 "1304.4.2 Inspection and testing of backflow prevention assemblies.

2147 Testing of a backflow preventer or backwater valve shall be conducted in accordance  
 2148 with [Sections ~~312.10.1, 312.10.2, and 312.10.3~~ Sections 312.11.1, 312.11.2, and 312.11.3.]

2149 Section 19. Section **15A-3-315** is amended to read:

2150 **15A-3-315 . Amendments to Chapter 15 of IPC.**

2151 (1) In IPC, Chapter 15, the following reference standards are deleted: ASSE 5013-2015,  
 2152 ASSE 5015-2015, ASSE 5020-2015, ASSE 5047-2015, ASSE 5048-2015, ASSE  
 2153 5052-98, ASSE 5056-2015, CSA B64.10-17, and CSA B64.10.1-17.

2154 (2) In IPC, Chapter 15, the following referenced standard is added:

2155 "Standard reference number	Title	Referenced in code section number
2156 USC-FCCCHR 10th Edition Manual of	Foundation for Cross-Connection Control and Hydraulic Research University of	Section [312.10.2] <u>312.11.2</u>

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2157                   Section 20. Section **15A-3-401** is amended to read:

2158                   **15A-3-401 . General provisions.**

2159                   (1) The amendments in this part are adopted as amendments to the IMC to be applicable  
2160                   statewide.

2161                   (2) In IMC, Section 505.4, a new subsection 505.4.1 is added as follows:

2162                   "505.4.1 Makeup Air. Makeup air is not required in residential dwelling units  
2163                   where gas, liquid, or solid fuel-burning appliances located within a units air barrier are  
2164                   all direct-vent or use a mechanical draft venting system."

2165                   (3) In IMC, Section 1004.2, the first sentence is deleted and replaced with the following:

2166                   "[-]In accordance with Title 34A, Chapter 7, Safety, and requirements made by  
2167                   rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the  
2168                   Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except  
2169                   those located in private residences or in apartment houses of less than five family units.  
2170                   Boilers shall be installed in accordance with their listing and labeling, with minimum  
2171                   clearances as prescribed by the manufacturer's installation instructions and the state  
2172                   boiler code, whichever is greater."

2173                   (4) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers."[-]

2174                   (5) In IMC, Section 1109.2.5, Exception 2, the words "using Group A1 refrigerant" are  
2175                   deleted.

2176                   [(5)] (6) In IMC, Section 1209.3, the following words are added at the end of the section:

2177                   "or other methods approved for the application."

2178                   Section 21. Section **15A-3-402** is amended to read:

2179                   **15A-3-402 . Amendments to Chapters 1 through 5 of IMC.**

2180                   (1) In IMC, Table 403.3.1.1, note "h" is deleted and replaced with the following:

2181                   "h. 1. A nail salon shall provide each manicure station where a nail technician files or  
2182                   shapes an acrylic nail, as defined by rule by the Division of Professional Licensing, in  
2183                   accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, with:

2184                   a. a source capture system equipped with, at minimum, a MERV 8 particulate filter and  
2185                   an activated carbon filter that is capable of filtering and recirculating air to inside space at a  
2186                   rate not less than 50 cfm per station; or

2187                   b. a source capture system capable of exhausting not less than 50 cfm per station.

2188                   c. A nail salon that complies with Note h. 1a or h. 1b is not required to comply with the

2189 labeling, listing, or testing requirements described in International Mechanical Code sections  
2190 301.7 or 301.8.

2191 2. For a source capture system described in paragraph 1, the source capture system inlets  
2192 for exhausting or recirculating air shall be located in accordance with Section 502.20.

2193 3. Where one or more exhausting source capture systems described in paragraph 1  
2194 operate continuously during occupancy, the source capture system exhaust rate shall be  
2195 permitted to be applied to the exhaust flow rate required by Table 403.3.1.1 for the nail salon.

2196 4. The requirements of this note apply to:

2197 a. an existing nail salon that remodels the nail salon after July 1, 2017;  
2198 b. a new nail salon that begins construction after July 1, 2017; and  
2199 c. all nail salons beginning on July 1, 2020."

2200 (2) IMC, Section 502.20 is deleted and rewritten as follows:

2201 "502.20 Manicure stations. A nail salon that files or shapes an acrylic nail shall provide  
2202 each manicure station with a source capture system in accordance with Table 403.3.1.1, note h.  
2203 For a manicure table that does not have factory-installed source capture system inlets for  
2204 recirculating or exhausting air, a nail salon shall provide the manicure table with inlets for  
2205 recirculating or exhausting air located not more than 12 inches (305 mm) horizontally and  
2206 vertically from the point of any acrylic chemical application.

2207 Exception: Section 502.20 applies to a manicure station in:

2208 a. an existing nail salon that remodels the nail salon after July 1, 2017;  
2209 b. a new nail salon that begins construction after July 1, 2017; and  
2210 c. all nail salons beginning on July 1, 2020."

2211 (3) In IMC, Section 908.1, the following words are added at the end of the last sentence: "or  
2212 UL/CSA 60335-2-40."

2213 (4) In IMC, Section 918.1, the following words are added after "1995": "or UL/CSA  
2214 60335-2-40."

2215 (5) In IMC, Section 918.2, the following words are added at the end of the sentence: "or  
2216 UL/CSA 60335-2-40."

2217 (6) In IMC, Section 1101.6, the following sentence is added at the end of the paragraph:  
2218 "High probability systems utilizing A2L refrigerants shall comply with ASHRAE 15."

2219 (7) IMC, Chapter 15 is amended by adding the following referenced standard to CSA:

Standard reference number	Title	Referenced in code section number

2221	CSA: CSA C22.2 60335-2-40-2019	Standard for Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers - 3rd Edition	M1403.1, M1412.1, M1413.1"
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2222 (8) In IMC, Section 1109.2.5, the words using "Group A1 refrigerant" are deleted in Exception 2.

2224 (9) IMC, Chapter 15 is amended by adding the following referenced standard to UL:

2225	"Standard reference number	Title	Referenced in code section number
2226	UL: 60335-2-40-2019	Standard for Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers - 3rd Edition	M1403.1, M1412.1, M1413.1"

2227 Section 22. Section **15A-3-501** is amended to read:

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

2229 The following are adopted as an amendment to the IFGC to be applicable statewide:

2230 (1) In IFGC, Section 404.9, a new Section 404.9.1, is added as follows:

2231 "404.9.1 Meter protection. Fuel gas services shall be in an approved location  
2232 and/or provided with structures designed to protect the fuel gas meter and surrounding  
2233 piping from physical damage, including falling, moving, or migrating ice and snow. If  
2234 an added structure is used, it must still provide access for service and comply with the  
2235 IBC or the IRC."

2236 (2) IFGC, Section 409.5.3, is deleted.

2237 [(3) In IFGC, Section 502.1, the last sentence is deleted and replaced with "Plastic vents for  
2238 Category IV appliances shall not be required to be listed and labeled where such vents comply  
2239 with all of the following:

- 2240 1. specified by the appliance manufacturer;
- 2241 2. installed in accordance with the appliance manufacturer's instructions; and
- 2242 3. the vent gas temperatures do not exceed 140 degrees Fahrenheit."]

2243 [(4) In IFGC, Section 503.4.1, in the last sentence after "appliance manufacturer" insert:  
2244 "where the appliance vent gas temperatures do not exceed 140 degrees Fahrenheit."]

2245 [(5)] (3) In IFGC, Section 503.6.11.1, the following exception is added:

2246 "Exception: Existing and replacement Category I appliances may be located in rooms

2247 within the occupiable space provided all the following are met:

- 2248 1. The original installation was compliant with existing codes at the time of installation.
- 2249 2. The dwelling is equipped with a current, operable carbon monoxide detector, installed in
- 2250 accordance with Section 915 of the International Building Code.
- 2251 3. The AHJ has approved a replacement based on the extreme difficulty of an installing
- 2252 individual Category I vent system or a direct vent Category IV appliance.
- 2253 4. The room or space is used for no other purpose.
- 2254 5. Combustion air is provided in accordance with Section 304. Where outdoor combustion
- 2255 air is provided, the room has a solid weather-stripped door equipped with an approved
- 2256 self-closure device.
- 2257 6. Common vents terminate with a listed cap."

2258 [⑥] (4) In IFGC, Section 631.2, the following sentence is inserted before the first sentence:

2259 "[-]In accordance with Title 34A, Chapter 7, Safety, and requirements made by  
2260 rule by the Labor Commission, boilers and pressure vessels in Utah are regulated by the  
2261 Utah Labor Commission, Division of Boiler, Elevator and Coal Mine Safety, except  
2262 those located in private residences or in apartment houses of less than five family units.  
2263 Boilers shall be installed in accordance with their listing and labeling, with minimum  
2264 clearances as prescribed by the manufacturer's installation instructions and the state  
2265 boiler code, whichever is greater."

2266 Section 23. Section **15A-3-701** is amended to read:

2267 **15A-3-701 . General provisions.**

2268 The following is adopted as an amendment to the IECC to be applicable statewide:

2269 [④] IECC, Section C405.11, is deleted and replaced with the following: "C405.11  
2270 Automatic receptacle control. Automatic receptacle control to be optional and decided  
2271 by property owner."]

2272 [②] (1) In IECC, Section R102.1.1, a new section R102.1.1 is added as follows:

2273 "R102.1.1 National Green Building Standard complying with ICC 700-2020  
2274 National Green Building Standard and achieving the Gold rating level for the energy  
2275 efficiency category shall be deemed to exceed the energy efficiency required by this  
2276 code. The building shall also meet the requirements identified in table N1105.2 and the  
2277 building thermal envelope efficiency is greater than or equal to levels of efficiency and  
2278 solar heat gain coefficients (SHGC) in Tables N1102.2.2 and N1102.1.3 of the 2009  
2279 IRC."

2280 [③] (2) In IECC, Section R103.2, all words after the words "herein governed[-]," are

2281 deleted and replaced with the following:

2282 "Construction documents include all documentation required for building permits  
2283 shall include only those items specified in 10-5-132(8) of the Utah Municipal Code."

2284 [(4)] (3) In IECC, Section R303.1.3, the following changes are made:

2285 (a) The following is added at the end of the first sentence: "or EN  
2286 14351-1:2006+A1:2010."

2287 (b) The word "accredited" is replaced with "approved" in the third sentence.

2288 (c) The following sentence is added after the third sentence: "A conversion factor of  
2289 5.678 shall be used to convert from U values expressed in SI units: ()/53678=."

2290 (d) After "NFRC 200" the following words are added: "or EN 14351-1:2006+A1:2010",  
2291 and in the sentence the word "accredited" is replaced with the word "approved."[.]

2292 (e) The following new sentence shall be inserted immediately prior to the last sentence:  
2293 "Total Energy Transmittance values may be substituted for SHGC, and  
2294 Luminous Transmission values may be substituted for VT."

2295 [(5)] (4) In IECC, Section R303.3, all wording after the first sentence is deleted.

2296 [(6)] (5) In IECC, Section R401.2, in the first sentence, the words "Section R401.13.5 and"  
2297 are deleted.

2298 [(7)] (6) In IECC, Section R401.2.5 is deleted.

2299 [(8)] (7) In IECC, Section R401.3 Number 7, the words "and the compliance path used" are  
2300 deleted.

2301 [(9)] (8) In IECC Table R402.1.2, the following changes are made:

2302 (a) in the column titled "Fenestration U-Factor", the following changes are made:

2303 (i) in the row titled "Climate Zone 3", delete 0.30 and replace it with 0.32;

2304 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.30 and replace it with  
2305 0.32; and

2306 (iii) in the row titled "Climate Zone 6", delete 0.30 and replace it with 0.32;

2307 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in  
2308 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;

2309 (c) in the column titled "Climate U-Factor", the following changes are made:

2310 (i) in the row titled "Climate Zone 3", delete 0.026 and replace it with 0.030;

2311 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.024 and replace it with  
2312 0.026; and

2313 (iii) in the row titled "Climate Zone 6", delete 0.024 and replace it with 0.026;

2314 (d) in the column titled "Wood Frame Wall U Factor", the following changes are made:

2315 (i) in the row titled "Climate Zone 3", delete 0.060 and replace it with 0.060;  
2316 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.045 and replace it with  
2317 0.060; and  
2318 (iii) in the row titled "Climate Zone 6", delete 0.045 and replace it with 0.060;  
2319 (e) in the column titled "Basement wall U-Factor", the following changes are made:  
2320 (i) in the row titled "Climate Zone 5 and Marine 4", delete 0.050 and replace it with  
2321 0.075; and  
2322 (ii) in the row titled "Climate Zone 6", delete 0.50 and replace it with 0.065; and  
2323 (f) in the column titled "Crawl Space Wall U-Factor", the following changes are made:  
2324 (i) in the row titled "Climate Zone 5 and Marine 4", delete 0.055 and replace it with  
2325 0.078; and  
2326 (ii) in the row titled "Climate Zone 6", delete 0.55 and replace it with 0.065.

2327 [40] (9) In IECC, Table R402.1.3, the following changes are made:  
2328 (a) in the column titled "Fenestration U-Factor", the following changes are made:  
2329 (i) in the row titled "Climate Zone 3", delete 0.30 and replace it with 0.32;  
2330 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.30 and replace it with  
2331 0.32; and  
2332 (iii) in the row titled "Climate Zone 6", delete 0.30 and replace it with 0.32;  
2333 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in  
2334 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;  
2335 (c) in the column R-Value the following changes are made:  
2336 (i) in the row titled "Climate Zone 3", delete 49 and replace it with 38;  
2337 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 60 and replace it with 49;  
2338 and  
2339 (iii) in the row titled "Climate Zone 6", delete 60 and replace it with 49;  
2340 (d) in the column titled "Wood Frame Wall R-Value", the following changes are made:  
2341 (i) in the row titled "Climate Zone 3", delete all values and replace with "20+Oci or  
2342 13+5ci or 0+15ci";  
2343 (ii) in the row titled "Climate Zone 5 or Marine 4", delete all values and replace with  
2344 "21+Oci or 15+5ci or 0+15ci"; and  
2345 (iii) in the row titled "Climate Zone 6", delete all values and replace with "21+Oci or  
2346 15+5ci or 0+15ci";  
2347 (e) in the column titled "Basement Wall R-Value", the following changes are made:  
2348 (i) in the row titled "Climate Zone 5 or Marine 4", delete all values and replace with

2349 "15+Oci or 0+11ci or 11+5ci"; and  
2350 (ii) in the row titled "Climate Zone 6", delete all values and replace with "19+Oci or  
2351 0+13ci or 11+5ci";  
2352 (f) in the column titled "Slab R-Value and Depth", the following changes are made:  
2353 (i) in the row titled "Climate Zone 3", delete "10ci. 2ft" and replace it with "NR"; and  
2354 (ii) in the row titled "Climate Zone 5 & Marine 4", delete "4 ft" and replace it with  
2355 "2 ft";  
2356 (g) in the column titled "Crawl Space Wall R-Value", the following changes are made:  
2357 (i) in the row titled "Climate Zone 5 or Marine 4", delete all values and replace with  
2358 "15+Oci or 0+11ci or 11+5ci"; and  
2359 (ii) in the row titled "Climate Zone 6", delete all values and replace with "19+Oci or  
2360 0+13ci or 0+11+5ci"; and  
2361 (h) in IECC, Table R402.2, in the column titled "MASS WALL R-VALUE", a new  
2362 footnote "j" is added as follows:  
2363 "j Log walls complying with ICC400 and with a minimum average wall  
2364 thickness of 5 inches or greater shall be permitted in "Zones 5 through 8" when  
2365 overall window glazing has a .31 U-factor or lower, minimum heating equipment  
2366 efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements  
2367 are met."

2368 [(11)] (10) In IECC, a new subsection R402.1.5.1 is added as follows:

2369 "R402.1.5.1 RESCheck 2012 Utah Energy Conservation Code. Compliance with  
2370 section N1102.1.5 (R402.1.5) may be satisfied using the software RESCheck 2012 Utah  
2371 Energy Conservation Code, which shall satisfy the R-value and U-factor requirements of  
2372 N1102.1, N1102.2, and N1102.3, provided the following conditions are met:

2373 (a) In Climate Zone 5 and 6 the software result shall show 5% better than code; and  
2374 (b) In Climate Zone 3, the software result shall show 5% better than code when software  
2375 inputs for window U-factor = 0.65 and window SHGC = 0.40, notwithstanding actual  
2376 windows installed shall conform to requirements of Tables N1102.1.2 (R402.1.2) and  
2377 N1102.1.3 (R402.1.3)."

2378 [(12)] (11) In IECC, Section R402.2.1, a new section is added as follows:

2379 "R402.2.1.1. Unvented attic and unvented enclosed rafter assemblies. Unvented attic and  
2380 unvented enclosed rafter assemblies conforming to Section R806.5 shall be provided with an  
2381 R-value of R-22 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26  
2382 (maximum U-factor of 0.038) in Climate Zones 5-B and 6-B shall be permitted provided all

2383 the following conditions are met:

2384 1. The unvented attic assembly complies with the requirements of the International  
2385 Residential Code, Section R806.5.

2386 2. The house shall attain a blower door test result 2.5ACH 50.

2387 3. The house shall require a whole house mechanical ventilation system that does not  
2388 rely solely on a negative pressure strategy (must be positive, balanced or hybrid).

2389 4. Where insulation is installed below the roof deck and the exposed portion of roof  
2390 rafters are not already covered by the R-20 depth of the air-impermeable insulation, the  
2391 exposed portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly  
2392 covered by drywall/finished ceiling. Roof rafters are not required to be covered by minimum  
2393 R-3 if a continuous insulation is installed above the roof deck.

2394 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be  
2395 inside the building thermal envelope."

2396 [(13)] (12) A new IECC, Section R402.2.1.3 is added as follows:

2397 [-]"R402.2.1.3 Walls with Air-Impermeable Insulation. Where IECC Table R402.1.2  
2398 requires R-20 for wood framed walls in climate zones 3-B and 5-B or R-20+5CI for  
2399 climate zone 6-B, an air-impermeable insulation installed in the wall cavity with R-value  
2400 of R-15 for climate zones 3-B and 5-B or R-20 for climate zone 6-B shall be deemed  
2401 equivalent to the provisions in IECC Table R402.1.2, provided the home attains a  
2402 blower door test 2.5ACH."

2403 [(14)] (13) In IECC, Section R402.2.9.1, the numeral "(i)" is added before the words "cut at  
2404 a 45 degree" and the following is added after the words "exterior wall": "or (ii) lowered  
2405 from top of slab 4" when a 4" thermal break material such as, but not limited to, felt or  
2406 asphalt impregnated fiber board, with a minimum thickness of 1/4" is installed at the  
2407 upper 4" of slab."

2408 [(15)] (14) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and  
2409 replaced with the word "or."[-]

2410 [(16)] (15) In IECC, Section R402.4.1.1, the second and the last sentences are deleted and  
2411 replaced with the following:

2412 "Where required by the code official, the builder shall certify compliance with  
2413 criteria indicated in Table R1102.4.1 for items which are not readily visible during  
2414 regularly scheduled inspections."

2415 [(17)] (16) In IECC, Table R402.4.1.1 in the column titled "COMPONENT", the following  
2416 changes are made:

2417 (a) in the row "Rim Joists" the word "exterior" in the first sentence is deleted, and the  
2418 second sentence is deleted.

2419 (b) In the row "Electrical/phone box on the exterior walls" the last sentence is deleted  
2420 and replaced with: "Alternatively, close cell foam, caulking or gaskets may be used,  
2421 or air sealed boxes may be installed."

2422 [(18)] (17) In IECC, Section R402.4.1.2, the following changes are made:

2423 (a) In the fourth sentence, the word "third" is deleted.

2424 (b) The following sentence is added after the fourth sentence:

2425 "The following parties shall be approved to conduct testing: Parties certified by  
2426 BPI or RESNET, or licensed contractors who have completed training provided by  
2427 Blower Door Test equipment manufacturers or other comparable training."

2428 (c) In the first Exception the second sentence is deleted.

2429 [(19)] (18) In IECC, Section R402.4.1.3, the following changes are made:

2430 (a) in the first sentence, the words 5.0 air changes per hour in Climate Zones 0, 1 and 2,  
2431 and 3.0 are deleted and replaced with 4.0., and the words in Climate Zone 3 through  
2432 8 are deleted;

2433 (b) in the first sentence of the Exception, 0.28 is replaced with 5.0 air changes per hour  
2434 or 0.30; and

2435 (c) in Number 2, the words of "conditioned floor area" are inserted before the words "or  
2436 smaller."

2437 [(20)] (19) In IECC, Section R402.6 is deleted.

2438 [(21)] (20) In IECC, Section R403.3.1 is deleted and replaced with the following:

2439 "Ducts located outside conditioned space. Supply and return ducts in attics shall be  
2440 insulated to a minimum of R-8 where 3 inches (76.2 mm) in diameter and greater and  
2441 R-6 where less than 3 inches (76.2 mm) in diameter. Supply and return ducts in other  
2442 portions of the building shall be insulated to a minimum of R-6 where 3 inches (76.2  
2443 mm) in diameter or greater and R-4.2 where less than 3 inches (76.2 mm) in diameter.

2444 Exception: Ducts or portions thereof located completely inside the building thermal  
2445 envelope."

2446 [(22)] (21) In IECC, Section R403.3.3, is deleted.

2447 [(23)] (22) In IECC, Section R403.3.3.1 is deleted.

2448 [(24)] (23) In IECC, Section R403.3.5, the following changes are made:

2449 (a) a second Exception is added as follows:

2450 "A duct leakage test shall not be required for any system designed such that no air

2451            handlers or ducts are located within unconditioned attics."

2452            (b) the following is added at the end of the section:

2453            "The following parties shall be approved to conduct testing:

2454            (i) Parties certified by BPT or RESNET

2455            (ii) Licensed contractors who have completed training provided by Duct Test  
2456            equipment manufacturers or other comparable training."

2457            [(25)] (24) In IECC, Section N1103.3.6 (R403.3.6) the following changes are made:

2458            (a) in Subsection 1:

2459            (i) the number 4.0 is changed to 6.0;

2460            (ii) the number 113.3 is changed to 170;

2461            (iii) the number 3.0 is changed to 5.0; and

2462            (iv) the number 85 is changed to 141;

2463            (b) in Subsection 2:

2464            (i) the number 4.0 is changed to 5.0; and

2465            (ii) the number 113.3 is changed to 141; and

2466            (c) Subsection 3 is deleted.

2467            [(26)] (25) In IECC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.

2468            [(27)] (26) In IECC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are  
2469            added at the beginning of the first sentence.

2470            [(28)] (27) IECC, Section R403.6.2, is deleted and replaced with the following:

2471            "R403.6.2 Whole-house mechanical ventilation system fan efficacy. Fans used to  
2472            provide whole-house mechanical ventilation shall meet the efficacy requirements of Table  
2473            R403.6.2.["

2474            "]Exception: Where an air handler that is integral to tested and listed HVAC equipment  
2475            is used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
2476            electronically commutated motor."

2477            [(29)] (28) In IECC, Section R403.6.2, the table is deleted and replaced with the following:

2478            "TABLE R403.6.2["

2479            "]MECHANICAL VENTILATION SYSTEM FAN EFFICACY["

	FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
2481	HRV or ERV	Any	1.2 cfm/watt	Any

2482	Range hoods	Any	2.8 cfm/watt	Any
2483	In-line fan	Any	2.8 cfm/watt	Any
2484	Bathroom, utility room	10	1.4 cfm/watt	90
2485	Bathroom, utility room	90	2.8 cfm/watt	Any"

2486 [30] (29) In IECC, Section R403.6.3 is deleted.

2487 [31] (30) In IECC, Section R403.7, the word "approved" is deleted in the first sentence  
2488 and the following is added after the word "methodologies": "complying with R403.7.1."

2489 [32] (31) A new IECC, Section R403.7.1, is added as follows:

2490 "R403.7.1 Qualifications. An individual performing load calculations shall be qualified  
2491 by completing HVAC training from one of the following:

- 2492 1. HVAC load calculation education from ACCA;
- 2493 2. A recognized educational institution;
- 2494 3. HVAC equipment manufacturer's training; or
- 2495 4. Other recognized industry certification."

2496 [33] (32) In IECC, Section R404.1, the word "All" is replaced with "Not less than 90  
2497 percent of the lamps in."

2498 [34] (33) In IECC, Section R404.1.1 is deleted.

2499 [35] (34) In IECC, Section R404.2 is deleted.

2500 [36] (35) In IECC, Section R404.3 is deleted.

2501 [37] (36) In IECC, Section R405.2 the following changes are made:

- 2502 (a) in Subsection 3, the words "approved by the code official" are deleted; and
- 2503 (b) in Subsection 3, the following words are added at the end of the sentence: "when  
2504 applicable and readily available."

2505 [38] (37) In IECC, Section R406.3 "Building thermal envelope" is deleted, and replaced  
2506 with the following:

2507 "Building thermal envelope and on-site renewables. The proposed total building  
2508 thermal envelope UA, which is the sum of U-factor times assembly area, shall be less  
2509 than or equal to the building thermal envelope UA using the prescriptive U-factors From  
2510 Table N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The  
2511 area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through 3  
2512 shall be 0.30.UAProposed design = 1.15 x UAPrescriptive reference design (Equation  
2513 11-4)."

2514 [39] (38) In IECC, Section R406.3.1 is deleted.

2515 [40] (39) In IECC, Section R406.3.2 is deleted.

2516 [41] (40) In IECC, Section R406.4 the following changes are made:

2517 (a) in the first sentence, the words "in accordance with Equation 11-5" are deleted and  
 2518 replaced with: "permitted to be calculated using the minimum total air exchange Rate  
 2519 for the rated home (Qtot) and for the index adjustment factor in accordance with  
 2520 Equation 11.5.";

2521 (b) in equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:  
 2522 "Qtot"; and

2523 (c) in the last sentence, the number "5" is deleted and replaced with "15."[.]

2524 [42] (41) In IECC, Section R406.5 in the column titled ENERGY RATING INDEX of  
 2525 Table R406.5, the following changes are made:

2526 (a) in the row for Climate Zone 3, "51" is deleted and replaced with "65";  
 2527 (b) in the row for Climate Zone 5, "55" is deleted and replaced with "69"; and  
 2528 (c) in the row for Climate Zone 6, "54" is deleted and replaced with "68."[.]

2529 [43] (42) In IECC, Section R408 is deleted.

2530 (a)(i)(A) In IECC, Chapter 6, the standard for ANSI/RESNET/ICC 201-2019  
 2531 section 4.4.4 is added as follows:

2532 "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and  
 2533 Air Conditioners with the more recent Manufacturers Equipment Performance  
 2534 Ratings (HSPF2 or SEER2) available, and HSPF and SEER are not available,  
 2535 these ratings shall be converted to HSPF and SEER values by dividing HSPF2  
 2536 or SEER2 by the conversion factors in Table 4.4.4.1(1). If the type of  
 2537 equipment is not determined, the conversion shall default to the Ducted Split  
 2538 System factors. All calculations, including Equation 4.1-1a shall use HSPF or  
 2539 SEER values as made available by the Manufacturer or converted as specified  
 2540 in this section. Table 4.4.4.1(1) SEER2 and HSPF2 Conversion["]

2541 Equipment Type	SEER2/SEER	EER2/EER4	HSPF2/HSPF
2542 Ductless Systems	1.00	1.00	0.90
2543 Ducted Split System	0.95	0.95	0.85
2544 Ducted Packaged System	0.95	0.95	0.84
2545 Small Duct High Velocity System	1.00	Not Applicable	0.85

2546	Ducted Space-Constrained Air Conditioner	0.97	Not Applicable	Not Applicable
2547	Ducted Space-Constrained Heat Pump	0.99	Not Applicable	0.85"

2548       Section 24. Section **15A-3-801** is amended to read:

2549       **15A-3-801 . General provisions.**

2550       The following are adopted as amendments to the IEBC and are applicable statewide:

2551       (1) In IEBC, Section 202, the definition for "Approved" is modified by adding the words  
2552       "or independent third-party licensed engineer or architect and submitted to the building  
2553       official" after the word official.\_

2554       (2) In IEBC, Section 202, the following definition is added:

2555       [-]"BUILDING OFFICIAL. See Code official."

2556       (3) In IEBC, Section 202, the definition for "[Code official] CODE OFFICIAL" is deleted and  
2557       replaced with the following:

2558       "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)  
2559       charged with the administration and enforcement of this code."

2560       (4) In IEBC, Section 202, the definition for "[Existing buildings] EXISTING BUILDINGS" is  
2561       deleted and replaced with the following:

2562       "EXISTING BUILDING. A building that is not a dangerous building and that was  
2563       either lawfully erected under a prior adopted code, or deemed a legal non-conforming building  
2564       by the code official."

2565       (5) In IEBC, Section 302.3, the following is added after the words "code official" in the last  
2566       sentence:

2567       "or independent third-party licensed engineer or architect and submitted to the  
2568       building official."

2569       (6) In IEBC, Section 301.3, the exception is deleted.

2570       (7) In IEBC, Section 503.5, the following is added after the words "BSE-1E earthquake  
2571       hazard level" in the last sentence:

2572       "and using an objective of Life Safety Nonstructural Performance with the BSE-2E  
2573       earthquake hazard level."

2574       [(7)] (8) IEBC, Section 503.6 is deleted and replaced with the following:

2575       "503.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing.

2576       Where the intended alteration requires a permit for reroofing and involves removal of

2577 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
2578 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
2579 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
2580 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
2581 compliance of such items. Reduced seismic [forces are permitted for design purposes] criteria  
2582 of IEBC, Section 304.3.2 is permitted."

2583 (9) In IEBC, Section 503.11, the following is added after the words "BSE-1E earthquake  
2584 hazard level" in the last sentence:  
2585 "and using an objective of Life Safety Nonstructural Performance with the BSE-2E  
2586 earthquake hazard level."

2587 (10) In IEBC, Section 705.2, a new Exception 2 is added as follows:  
2588 "(2) Any existing layers of polyisocyanurate insulation shall be permitted to remain  
2589 in place if the roof decking is in serviceable condition and the insulation is not damaged,  
2590 deteriorated or water soaked. All other types of roof insulation and any areas of  
2591 damaged, deteriorated, or water soaked polyisocyanurate insulation are to be removed  
2592 and replaced with new."

2593 [(8)] (11) IEBC, Section 706.3.1 is deleted and replaced with the following:  
2594 "706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.

2595 Where a permit is issued for reroofing more than 25 percent of the roof area of a  
2596 building assigned to Seismic Design Category D, E, or F that has parapets constructed of  
2597 unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary,  
2598 etc., the work shall include installation of bracing to resist the reduced International Building  
2599 Code level seismic forces as specified in [Seetion 303] Section 304.3.2 of this code unless an  
2600 evaluation demonstrates compliance of such items."

2601 (12) In IEBC, Section 906.2, the following is added after the words "BSE-1E earthquake  
2602 hazard level" in the last sentence:  
2603 "and using an objective of Life Safety Nonstructural Performance with the BSE-2E  
2604 earthquake hazard level."

2605 (13) In IEBC, Section 906.3, the following is added after the words "BSE-1E earthquake  
2606 hazard level" in the last sentence:  
2607 "and using an objective of Life Safety Nonstructural Performance with the BSE-2E  
2608 earthquake hazard level."

2609 [(9)] (14) IEBC, Section 906.6 is deleted and replaced with the following:  
2610 "906.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing.

2611 Where the intended alteration requires a permit for reroofing and involves removal of  
2612 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
2613 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
2614 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
2615 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
2616 compliance with such items. Reduced seismic [forces are permitted for design purposes]  
2617 criteria of IEBC, Section 304.3.2, is permitted."

2618 [(10)] (15)(a) [Seetion 1006.3 is deleted and replaeed with the following:

2619 "1006.3 Seismic loads. Where a change of occupaney results in a building being  
2620 assigned to a higher risk category, or when a change of occupaney results in a design occupant  
2621 load increase of 100% or more, the building shall satisfy the requirements of Seetion 1613 of  
2622 the International Building Code using full seismic forces."] In IEBC, Section 1006.3, Seismic  
2623 Loads, the following is added after the words "higher risk category" in the first sentence:  
2624 "or when a change of occupancy results in a design occupant load increase of 100% or  
2625 more."

2626 (b) In IEBC, Section 1006.3, [exceptions] Exceptions 1 through 4 remain unchanged.

2627 (c) In IEBC, Section 1006.3, add a new [exception] Exception 5 as follows:

2628 "5. Where the design occupant load increase is less than 25 occupants and the occupancy  
2629 category does not change."

2630 [(11)] (16) In IEBC, Section 1011.7.3, [exeption] Exception 2 is deleted.

2631 Section 25. Section **15A-3-1001** is amended to read:

2632 **15A-3-1001 . General provisions.**

2633 (1) In ISPSC, Section 202, the following definition is added for private residential  
2634 swimming pool:

2635 "PRIVATE RESIDENTIAL SWIMMING POOL (Residential Pool). A swimming  
2636 pool, spa pool, or wading pool used only by an individual, family, or living unit  
2637 members and guests, but not serving any type of multiple unit housing complex of four  
2638 or more living units."

2639 (2) In ISPSC, Section 202, the definition for Residential Swimming Pool (Residential Pool)  
2640 is deleted and replaced with the following:

2641 "See the definition for Private Residential Swimming Pool (Residential Pool)."

2642 (3) In ISPSC, Section 306.3, in the first sentence, the words "or private residential pools"  
2643 are added after the word "pools" and the last sentence is deleted.

2644 [(3)] (4) In ISPSC, [Seetion 320.1] Section 321.1, the following changes are made:

2645 (a) the words "or storm" are deleted;  
 2646 (b) the words "onsite waste water" are added before the word "disposal"; and  
 2647 (c) the words "or shall be disposed of by other means approved by the state or local  
 2648 authority" are deleted.

2649 (5) In ISPSC, Section 326.1, the following words are added after the word "indoor":  
 2650 "residential or."

2651 (6) In ISPSC, a new Section 326.2 is added as follows:

2652 "326.2 Recirculation of Air. Supply air to residential or public pool and spa and  
 2653 associated deck areas shall not be recirculated unless such air is dehumidified to  
 2654 maintain the relative humidity of the area at 60% or less. Air from this area shall not be  
 2655 recirculated to other spaces where more than 10% of the resulting supply airstream  
 2656 consists of air recirculated from these spaces. The design and installation of ventilation  
 2657 systems shall comply with ANSI/ACCA 10 Manual SPS.

2658 (7) In Chapter 11, the following reference standard is added:

2659	<u>Standard Reference Number</u>	<u>Title</u>	<u>Referenced in Code</u> <u>Section Number</u>
2660	<u>ANSI/ACCA 10</u> <u>Manual SPS - 2023</u>	<u>HVAC Design for Swimming</u> <u>Pools and Spas, Publisher:</u> <u>Air Conditioning Contractors</u> <u>of America (ACCA) 2800</u> <u>Shirlington Road, Ste</u> <u>300, Arlington, VA 22206</u>	<u>Section 326.2</u>

2661 **Section 26. Effective Date.**

2662 This bill takes effect on May 6, 2026.