

**Representative Thomas W. Peterson** proposes the following substitute bill:

**STATE CONSTRUCTION CODE MODIFICATIONS**

2024 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Thomas W. Peterson**

Senate Sponsor: Curtis S. Bramble

---

---

**LONG TITLE**

**General Description:**

This bill modifies State Construction Code.

**Highlighted Provisions:**

This bill:

- ▶ amends the State Construction Code to:
  - align with updated standards in the International Residential Code (IRC); and
  - modify provisions of the IRC;
- ▶ creates a mass timber construction loan program; and
- ▶ makes technical changes.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

This bill provides a special effective date.

This bill provides a coordination clause.

**Utah Code Sections Affected:**

AMENDS:

**15A-1-104**, as enacted by Laws of Utah 2014, Chapter 197

**15A-2-103**, as last amended by Laws of Utah 2023, Chapters 160, 209



- 26 [15A-3-105](#), as last amended by Laws of Utah 2023, Chapter 209
- 27 [15A-3-202](#), as last amended by Laws of Utah 2023, Chapter 209
- 28 [15A-3-203](#), as last amended by Laws of Utah 2023, Chapter 209
- 29 [15A-3-204](#), as last amended by Laws of Utah 2023, Chapter 209
- 30 [15A-3-205](#), as last amended by Laws of Utah 2023, Chapter 209
- 31 [15A-3-206](#), as last amended by Laws of Utah 2023, Chapter 209
- 32 [15A-3-401](#), as last amended by Laws of Utah 2019, Chapter 20
- 33 [15A-3-701](#), as last amended by Laws of Utah 2023, Chapter 209
- 34 [15A-3-801](#), as last amended by Laws of Utah 2023, Chapter 209
- 35 [15A-5-103](#), as last amended by Laws of Utah 2023, Chapter 95
- 36 [58-55-102](#), as last amended by Laws of Utah 2023, Chapter 223

**Utah Code Sections Affected By Coordination Clause:**

- 38 [15A-3-203](#), as last amended by Laws of Utah 2023, Chapter 209
- 39 [15A-3-205](#), as last amended by Laws of Utah 2023, Chapter 209
- 40 [15A-5-103](#), as last amended by Laws of Utah 2023, Chapter 95

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

Section 1. Section **15A-1-104** is amended to read:

**15A-1-104. Permit approval required -- Certificate of occupancy valid.**

~~[(1) As used in this section:]~~

~~[(a) "Compliance agency" is as defined in Section [15A-1-202](#).]~~

~~[(b) "Project" is as defined in Section [15A-1-209](#).]~~

~~[(2) A compliance agency for a political subdivision may not reject a permit, or otherwise withhold approval of a project whenever approval is required, for failure to comply with the applicable provisions of this title unless the compliance agency:]~~

~~[(a) cites with specificity the applicable provision with which the project has failed to comply; and]~~

~~[(b) describes how the project has failed to comply.]~~

~~[(3) If a compliance agency or a representative of a compliance agency issues a certificate of occupancy, the compliance agency may not withdraw the certificate of occupancy or exert additional jurisdiction over the elements of the project for which the certificate was~~

57 ~~issued unless additional changes or modifications requiring a building permit are made to~~  
58 ~~elements of the project after the certificate was issued.]~~

59 (1) As used in this section:

60 (a) "Completed noncompliant structure" means a structure that was constructed and  
61 completed without:

62 (i) obtaining a building permit;

63 (ii) passing inspections; or

64 (iii) obtaining a certificate of occupancy as required by Section [15A-1-204](#).

65 (b) "Compliance agency" means the same as that term is defined in Section [15A-1-202](#).

66 (c) "Project" means the same as that term is defined in Section [15A-1-209](#).

67 (2) A compliance agency for a political subdivision may not reject a permit, or  
68 withhold approval of a project whenever approval is required, for failure to comply with the  
69 applicable provisions of this title unless the compliance agency:

70 (a) cites with specificity the applicable provision with which the project has failed to  
71 comply; and

72 (b) describes how the project has failed to comply.

73 (3) A municipality may not withhold a permit or project approval for a project because  
74 of a completed noncompliant structure on the same property provided that the completed  
75 noncompliant structure:

76 (a) has been completed for five years or more;

77 (b) does not pose a health, life, or safety concern;

78 (c) is unrelated to, independent from, and not affected by the project; and

79 (d) is outside the scope of work under the permit for the project.

80 (4) A municipality may require additional permitting, engineering, or inspections for a  
81 completed noncompliant structure if it:

82 (a) has been completed for ten years or less; or

83 (b) poses a health, life, or safety concern.

84 (5) If a compliance agency or a representative of a compliance agency issues a  
85 certificate of occupancy, the compliance agency may not withdraw the certificate of occupancy  
86 or exert additional jurisdiction over the elements of the project for which the certificate was  
87 issued unless additional changes or modifications requiring a building permit are made to

88 elements of the project after the certificate was issued.

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

90 **15A-2-103. Specific editions adopted of construction code of a nationally**  
91 **recognized code authority.**

92 (1) Subject to the other provisions of this part, the following construction codes are  
93 incorporated by reference, and together with the amendments specified in Chapter 3, Statewide  
94 Amendments Incorporated as Part of State Construction Code, and Chapter 4, Local  
95 Amendments Incorporated as Part of State Construction Code, are the construction standards to  
96 be applied to building construction, alteration, remodeling, and repair, and in the regulation of  
97 building construction, alteration, remodeling, and repair in the state:

98 (a) the 2021 edition of the International Building Code, including Appendices C and J,  
99 issued by the International Code Council;

100 (b) ~~[except as provided in Subsection (1)(c);]~~ the 2021 edition of the International  
101 Residential Code, issued by the International Code Council;

102 ~~[(c) the residential provisions of Chapter 11, Energy Efficiency, of the 2015 edition of~~  
103 ~~the International Residential Code, issued by the International Code Council;]~~

104 ~~[(d)]~~ (c) Appendix AQ of the 2021 edition of the International Residential Code, issued  
105 by the International Code Council;

106 ~~[(e)]~~ (d) the 2021 edition of the International Plumbing Code, issued by the  
107 International Code Council;

108 ~~[(f)]~~ (e) the 2021 edition of the International Mechanical Code, issued by the  
109 International Code Council;

110 ~~[(g)]~~ (f) the 2021 edition of the International Fuel Gas Code, issued by the International  
111 Code Council;

112 ~~[(h)]~~ (g) the 2020 edition of the National Electrical Code, issued by the National Fire  
113 Protection Association;

114 ~~[(i) the residential provisions of the 2015 edition of the International Energy~~  
115 ~~Conservation Code, issued by the International Code Council;]~~

116 ~~[(j)]~~ (h) ~~[the commercial provisions of]~~ the 2021 edition of the International Energy  
117 Conservation Code, issued by the International Code Council;

118 ~~[(k)]~~ (i) the 2021 edition of the International Existing Building Code, issued by the

119 International Code Council;

120 ~~[(+)]~~ (j) subject to Subsection 15A-2-104(2), the HUD Code;

121 ~~[(m)]~~ (k) subject to Subsection 15A-2-104(1), Appendix AE of the 2021 edition of the  
122 International Residential Code, issued by the International Code Council;

123 ~~[(n)]~~ (l) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model  
124 Manufactured Home Installation Standard, issued by the National Fire Protection Association;

125 ~~[(o)]~~ (m) subject to Subsection (3), for standards and guidelines pertaining to plaster on  
126 a historic property, as defined in Section 9-8a-302, the U.S. Department of the Interior  
127 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings;  
128 and

129 ~~[(p)]~~ (n) the residential provisions of the 2021 edition of the International Swimming  
130 Pool and Spa Code, issued by the International Code Council.

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

137 (3) The standards and guidelines described in Subsection ~~[(+)]~~~~[(o)]~~ (1)(n) apply only if:

138 (a) the owner of the historic property receives a government tax subsidy based on the  
139 property's status as a historic property;

140 (b) the historic property is wholly or partially funded by public money; or

141 (c) the historic property is owned by a government entity.

142 Section 3. Section 15A-3-105 is amended to read:

143 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**

144 (1) In IBC, Section 1010.2.4, number (2), the following is added at the end of the  
145 sentence: "Blended assisted living facilities shall comply with Section 1010.2.14.1."

146 (2) A new IBC Section 1010.2.14.1 is added as follows: "1010.2.14.1 Blended assisted  
147 living facilities. In occupancy Group I-1, Condition 2 or Group I-2, a Type-II assisted living  
148 facility licensed by the Department of Health and Human Services for residents with  
149 Alzheimers or dementia, and having a controlled egress locking system to prevent operation

150 from the egress side shall be permitted to also house residents without a clinical need for their  
151 containment where all of the following provisions are met:

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

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

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

159 (d) the number of residents housed in a smoke compartment with controlled egress  
160 shall not be greater than 30."

161 (3) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: "

162 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U  
163 occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling  
164 units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the  
165 minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the  
166 walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches  
167 (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm)  
168 shall be provided on stairways with solid risers where the tread depth is less than 10 inches  
169 (254 mm)."

170 [~~2~~] (4) In IBC, Section 1011.11, a new exception 6 is added as follows: " 6. In  
171 occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U,  
172 which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails  
173 shall be provided on at least one side of stairways consisting of four or more risers."

174 [~~3~~] (5) IBC, Section 1025, is deleted.

175 Section 4. Section **15A-3-202** is amended to read:

176 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

177 (1) In IRC, Section R101.2, Exception, the words "where provided with an automatic  
178 sprinkler system complying with Section P2904" are deleted.

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

180 Physical change for bedroom window egress. A structure whose egress window in an existing

181 bedroom is smaller than required by this code, and that complied with the construction code in  
182 effect at the time that the bedroom was finished, is not required to undergo a physical change to  
183 conform to this code if the change would compromise the structural integrity of the structure or  
184 could not be completed in accordance with other applicable requirements of this code,  
185 including setback and window well requirements."

186 ~~[(3) IRC, Section R105.2, number 10, is deleted and replaced with the following: "10-~~  
187 ~~Decks that are not more than 30 inches (762 mm) above grade at any point and not requiring~~  
188 ~~guardrails, that do not serve the exit door required by Section R311.4."]~~

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

190 (a) Number 3 is deleted and replaced with the following: "3. Retaining walls retaining  
191 less than 4 feet (1219mm) of unbalanced fill, unless supporting a surcharge or requiring design  
192 per Section R404.4."

193 (b) Number 10 is deleted and replaced with the following: "10. Decks that are not more  
194 than 30 inches (762mm) above grade at any point and not requiring guardrails, that do not  
195 serve exit door required by Section R311.4."

196 (4) In IRC, Section R105.2 a new exception is added: "11. Grade level, non-connected  
197 conex boxes, less than 350 square feet, used for storage only."

198 ~~[(4)]~~ (5) In IRC, Section R108.3, the following sentence is added at the end of the  
199 section: "The building official shall not request proprietary information."

200 ~~[(5)]~~ (6) IRC, Section 109.1.5, is deleted and replaced with the following: "R109.1.5  
201 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the  
202 weather-resistant exterior wall envelope as required by Section R703.1 and flashings as  
203 required by Section R703.4 to prevent water from entering the weather-resistive barrier."

204 ~~[(6)]~~ (7) In IRC, Section R202, the following definition is added: "ACCESSORY  
205 DWELLING UNIT: A habitable living unit created within the existing footprint of a primary  
206 owner-occupied single-family dwelling."

207 ~~[(7)]~~ (8) In IRC, Section R202, the definition for "Approved" is modified by adding the  
208 words "or independent third-party licensed engineer or architect and submitted to the building  
209 official" after the word "official."

210 ~~[(8)]~~ (9) In IRC, Section R202, the definition for "Approved Agency" is modified by  
211 replacing the word "and" with "or."

212           ~~[(9)]~~ (10) In IRC, Section 202, the definition for "Approved Source" is modified by  
213 adding the words "or licensed engineer or architect" after the word "official."

214           ~~[(10)]~~ (11) In IRC, Section R202, the following definition is added: "CERTIFIED  
215 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to  
216 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
217 under Utah Code, Subsection 19-4-104(4)."

218           ~~[(11)]~~ (12) In IRC, Section R202, the definition of "Cross Connection" is deleted and  
219 replaced with the following: "CROSS CONNECTION. Any physical connection or potential  
220 connection or arrangement between two otherwise separate piping systems, one of which  
221 contains potable water and the other either water of unknown or questionable safety or steam,  
222 gas, or chemical, whereby there exists the possibility for flow from one system to the other,  
223 with the direction of flow depending on the pressure differential between the two systems (see  
224 "Backflow, Water Distribution")."

225           ~~[(12)]~~ (13) In IRC, Section 202, the following definition is added: "DUAL SOURCE  
226 CONNECTION. A pipe that is installed so that either the nonpotable (i.e. secondary) irrigation  
227 water or the potable water is connected to a pressurized irrigation system at one time, but not  
228 both at the same time; or a pipe that is installed so that either the potable water or private well  
229 water is connected to a residence at one time, but not both at the same time. The potable water  
230 supply line shall be protected by a reduced pressure backflow preventer."

231           ~~[(13)]~~ (14) In IRC, Section 202, the following definition is added: "ENERGY  
232 STORAGE SYSTEM (ESS). One or more devices, assembled together, that are capable of  
233 storing energy for supplying electrical energy at a future time."

234           ~~[(14)]~~ (15) In IRC, Section 202, in the definition for gray water a comma is inserted  
235 after the word "washers"; the word "and" is deleted; and the following is added to the end: "and  
236 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible;  
237 without objectionable odors; non-highly pigmented; and will not interfere with the operation of  
238 the sewer treatment facility."

239           ~~[(15)]~~ (16) In IRC, Section R202, the definition of "Potable Water" is deleted and  
240 replaced with the following: "POTABLE WATER. Water free from impurities present in  
241 amounts sufficient to cause disease or harmful physiological effects and conforming to the  
242 Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water



243 Quality Act, and the regulations of the public health authority having jurisdiction."

244 [~~(16)~~] (17) IRC, Figure R301.2 (3), is deleted and replaced with R301.2 (3) as follows:

"TABLE R301.2 (3)			
GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH			
City/Town	County	Ground Snow Load (lb/ft <sup>2</sup> )	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630
Parowan	Iron	32	6007
Price	Carbon	31	5558
Provo	Utah	31	4541

271	Randolph	Rich	50	6286
272	Richfield	Sevier	27	5338
273	St. George	Washington	21	2585
274	Salt Lake City	Salt Lake	28	4239
275	Tooele	Tooele	35	5029
276	Vernal	Uintah	39	5384

277 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."

278 [~~(17)~~] (18) IRC, Section R301.6, is deleted and replaced with the following: "R301.6  
 279 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the  
 280 jurisdictions identified in that table. Otherwise, for other locations in Utah, see Bean, B.,  
 281 Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and  
 282 Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for  
 283 ground snow load values."

284 [~~(18)~~] (19) In IRC, Section R302.2, the following sentence is added at the end of the  
 285 paragraph: "When an access/maintenance agreement or easement is in place, plumbing,  
 286 mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including  
 287 feeders, are permitted to penetrate the common wall at grade, above grade, or below grade."

288 [~~(19)~~] (20) In IRC, Section R302.3, a new exception 3 is added as follows: "3.  
 289 Accessory dwelling units separated by walls or floor assemblies protected by not less than  
 290 1/2-inch (12.7 mm) gypsum board or equivalent on each side of the wall or bottom of the floor  
 291 assembly are exempt from the requirements of this section."

292 [~~(20)~~] (21) In IRC, Section R302.5.1, the last sentence is deleted.

293 ~~[(21)]~~ (22) IRC, Section R302.13, is deleted.

294 ~~[(22)]~~ (23) In IRC, Section R303.4, the following exception is added: "Exception:  
295 Dwelling units tested in accordance with Section N1102.4.1.2 (R402.4.1.2) which has an air  
296 tightness of 3.0 ACH (50) or greater do not require mechanical ventilation."

297 ~~[(23)]~~ (24) In IRC, Section R310.1, all words in the last sentence after "or to a yard or court",  
298 are deleted, and Exception 3 of this Section is deleted.

299 ~~[(24)]~~ (25) In IRC, Section R310.7, in the exception, the words "or accessory dwelling  
300 units" are added after the words "sleeping rooms".

301 ~~[(25)]~~ (26) IRC, Sections R311.7.45 through R311.7.5.3, are deleted and replaced with  
302 the following: "R311.7.45.1 Stair treads and risers. R311.7.5.1 Riser height. The maximum  
303 riser height shall be 8 inches (203 mm). The riser shall be measured vertically between leading  
304 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not  
305 exceed the smallest by more than 3/8 inch (9.5 mm).

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

315 R311.7.5.3 Nosing. The radius of curvature at the leading edge of the tread shall be no  
316 greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1  
317 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
318 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)  
319 between two stories, including the nosing at the level of floors and landings. Beveling of  
320 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
321 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad)  
322 from the vertical. Open risers are permitted, provided that the opening between treads does not  
323 permit the passage of a 4-inch diameter (102 mm) sphere.

324 Exceptions.

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

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

328 [~~(25)~~] (27) IRC, Section R312.2, is deleted.

329 [~~(26)~~] (28) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
330 following: "R313.1 Design and installation. When installed, automatic residential fire  
331 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and  
332 installed in accordance with Section P2904 or NFPA 13D."

333 [~~(27)~~] (29) In IRC, Section R314.2.2, the words "or accessory dwelling units" are  
334 added after the words "sleeping rooms".

335 [~~(28)~~] (30) In IRC, Section R315.2.2, the words "or accessory dwelling units" are  
336 added after the words "sleeping rooms".

337 [~~(29)~~] (31) In IRC, Section 315.3, the following words are added to the first sentence  
338 after the word "installed": "on each level of the dwelling unit and."

339 [~~(30)~~] (32) A new IRC, Section R328.12, is added as follows:

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

344 [~~(31)~~] (33) In IRC, Section 403.1.3.5.3, an exception is added as follows: "Exception:  
345 Vertical steel in footings shall be permitted to be located while concrete is still plastic and  
346 before it has set. Where vertical steel resists placement or the consolidation of concrete around  
347 steel is impeded, the concrete shall be vibrated to ensure full contact between the vertical steel  
348 and concrete."

349 [~~(32)~~] (34) In IRC, Section R403.1.6, a new Exception 3 is added as follows: "3.  
350 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
351 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
352 from each end of each plate section at interior bearing walls, interior braced wall lines, and at  
353 all exterior walls."

354 [~~(33)~~] (35) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2

355 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816  
356 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
357 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
358 interior braced wall lines, and at all exterior walls."

359 ~~[(34)]~~ (36) In IRC, Section R404.1, a new exception is added as follows: "Exception:  
360 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
361 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
362 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

363 ~~[(35)]~~ (37) In IRC, Section R405.1, a second exception is added as follows:  
364 "Exception: When a geotechnical report has been provided for the property, a drainage system  
365 is not required unless the drainage system is required as a condition of the geotechnical report.  
366 The geotechnical report shall make a recommendation regarding a drainage system."

367 ~~[(36)]~~ (38) In IRC, Section R506.2.3, the words "10-mil (0.010 inch; 0.25 mm)" are  
368 deleted and replaced with "6-mil (0.006 inch; 0.152 mm)" and the words "conforming to  
369 ASTM E1745 Class A requirements" are deleted.

370 *The following section is affected by a coordination clause at the end of this bill.*

371 Section 5. Section **15A-3-203** is amended to read:

372 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

373 (1) IRC, Section ~~[609.4.1]~~ R609.4.1, is deleted.

374 (2) In IRC, Section N1101.4 (R102.1.1), a new section N1101.4.1 (R102.1.1) is added  
375 as follows: "N1101.4.1 National Green Building Standard. Buildings complying with ICC  
376 700-2020 National Green Building Standard and achieving the Gold rating level for the energy  
377 efficiency category shall be deemed to exceed the energy efficiency required by this code. The  
378 building shall also meet the requirements identified in table N1105.2 and the building thermal  
379 envelope efficiency is greater than or equal to levels of efficiency and solar heat gain  
380 coefficients (SHGC) in Tables N1102.2.2 and N1102.1.3 of the 2009 IRC."

381 ~~[(2)]~~ (3) In IRC, Section N1101.5 (R103.2), all words after the words "herein  
382 governed." are deleted and replaced with the following: "Construction documents include all  
383 documentation ~~[required to be submitted in order to issue a building permit.]"~~ required for  
384 building permits shall include only those items specified in Subsection 10-5-132(8) of the Utah  
385 Municipal Code."

- 386 (4) In IRC, Section N1101.10.3 (R303.1.3) the following changes are made:  
387 (a) The following is added at the end of the first sentence "or EN  
388 14351-1:2006+A1:2010."  
389 (b) The word "accredited" is replaced with "approved" in the third sentence.  
390 (c) The following sentence is added after the third sentence: "A conversion factor of  
391 5.678 shall be used to convert from U values expressed in SI units:  $()/53678=$ ."  
392 (d) After "NFRC 200" the following words are added: "or EN  
393 14351-1:2006+A1:2010," and in the sentence the word "accredited" is replaced with the word  
394 "approved."  
395 (e) The following new sentence shall be inserted immediately prior to the last sentence:  
396 "Total Energy Transmittance values may be substituted for SHGC, and Luminous  
397 Transmission values may be substituted for VT."  
398 ~~[(3)]~~ (5) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is  
399 deleted.  
400 ~~[(4) In IRC, Section N1101.13 (R401.2), add Exception as follows:]~~  
401 ~~["2. Exception: A project complies if the project demonstrates compliance, using the~~  
402 ~~software RESCheck 2012 Utah Energy Conservation Code, of:]~~  
403 ~~[(a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than~~  
404 ~~code";]~~  
405 ~~[(b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than~~  
406 ~~code"; and]~~  
407 ~~[(c) after January 1, 2021, "5 percent better than code.""]~~ (5) In IRC, Table N1102.2  
408 (R402.1.2), in the column titled MASS WALL R-VALUE, a new footnote j is added as  
409 follows:]  
410 ~~["j. Log walls complying with ICC400 and with a minimum average wall thickness of~~  
411 ~~5 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a~~  
412 ~~.31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE~~  
413 ~~(oil), and all other component requirements are met."]~~  
414 (6) In IRC, Section N1101.13 (R401.2), in the first sentence, the words "Section  
415 N1101.13.5 and" are deleted.  
416 (7) In IRC, Section N1101.13.5 (R401.2.5) is deleted.

417 (8) In IRC, Section N1101.14 (R401.3) Number 7, the words "and the compliance path  
418 used" are deleted.

419 (9) In IRC, Table N1102.1.2 (R402.1.2):

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

421 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;

422 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
423 0.32; and

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

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

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

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

429 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.024 and replace it with  
430 0.026; and

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

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

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

434 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.045 and replace it with  
435 0.060; and

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

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

438 (i) in the row titled "Climate Zone 5" and Marine 4" delete 0.050 and replace it with  
439 0.075; and

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

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

442 (i) in the row titled Climate "Zone 5 and Marine 4" delete 0.055 and replace it with  
443 0.078; and

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

445 [~~(6)~~] (10) In IRC, Table N1102.1.3(R402.1.3), the following changes are made:

446 (a) in the column titled "Wood Frame Walls R-Value" a new footnote indicator "j" is  
447 added and at the bottom of the footnotes the following footnote "j" is added: "j. In climate

448 zone 3B and 5B, an R-15, and in climate zone 6, an R-20 shall be acceptable where  
449 air-impermeable insulation is installed in the cavity space, exterior continuous insulation, or  
450 some combination thereof; and the tested house air leakage is a maximum of 2.0 ACH50"; and

451 (b) add a new footnote "k" as follows: "k. Log walls complying with ICC400 and with  
452 a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through  
453 8 when overall window glazing has 0.30 U -factor or lower, minimum heating equipment  
454 efficiency is for gas 95 AFUE, or for oil, 84 AFUE, and all other components requirements are  
455 met."

456 (11) In IRC, Table N1102.1.3 (R402.1.3) the following changes are made:

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

458 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;

459 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
460 0.32; and

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

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

464 (c) in the Column R-Value the following changes are made:

465 (i) in the row titled "Climate Zone 3" delete 49 and replace it with 38;

466 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 60 and replace it with 49;

467 and

468 (iii) in the row titled "Climate Zone 6" delete 60 and replace it with 49;

469 (d) in the Column titled "Wood Frame Wall R-Value" the following changes are made:

470 (i) in the row titled "Climate Zone 3" delete all values and replace with 20+ Oci or  
471 13+5ci or 015ci;

472 (ii) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
473 21+Oci or 15+5ci or 0+15ci; and

474 (iii) in the row titled "Climate Zone 6" delete all values and replace with 21+Oci or  
475 15+5ci or 0+15ci;

476 (e) in the column titled "Basement Wall R Value" the following changes are made:

477 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
478 15+Oci or 0+11ci or 11+5ci; and



479 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or  
480 0+13ci or 11+5ci;

481 (f) in the column titled "Slab R Value and Depth" the following changes are made:

482 (i) in the row titled "Climate Zone 3" delete 10ci, 2ft and replace it with NR; and

483 (ii) in the row titled "Climate Zone 5 & Marine 4" delete 4 ft and replace it with 2 ft;

484 and

485 (g) in the column titled "Crawl Space Wall R-Value" the following changes are made:

486 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with

487 15+ Oci or 0 + 11ci or 11 +5ci; and

488 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19 + Oci or 0

489 + 13ci or 0 + 11 + 5 ci.

490 (12) In IRC, a new subsection N1102.1.5.1 (R402.1.5.1) is added as follows:

491 "1102.1.5.1 (R402.1.5.1) RESCheck 2012 Utah Energy Conservation Code. Compliance with

492 section N1102.1.5 (R402.1.5) may be satisfied using the software RESCheck 2012 Utah

493 Energy Conservation Code, which shall satisfy the R-value and U-factor requirements of

494 N1102.1, N1102.2, and N1102.3, provided the following conditions are met:

495 (a) in "Climate Zone 5 and 6" the software result shall show 5% better than code; and

496 (b) in "Climate Zone 3", the software result shall show 5% better than code when

497 software inputs for window U-factor .65 and window SHGC=0.40, notwithstanding actual

498 windows installed shall conform to requirements of Tables N1102.1.2 (R402.1.2) and

499 N1102.1.3 (R402.1.3)."

500 (13) In IRC, Sections N1102.2.1 (R402.2.1), a new Section N1102.2.1.1 is added as

501 follows:

502 "N1102.2.1.1. Unvented attic and unvented enclosed rafter assemblies. Unvented attic

503 and unvented enclosed rafter assemblies conforming to Section R806.5 shall be provided with

504 an R-value of R-22 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26

505 (maximum U-factor of 0.038) in Climate Zones 5-B and 6-B shall be permitted provided all the

506 following conditions are met:

507 1. The unvented attic assembly complies with the requirements of the International

508 Residential Code, R806.5.

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

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

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

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

519 ~~[(7)]~~ (14) In IRC, Section N1102.2.9.1 (R402.2.9.1) the numeral (i) is added before the  
520 words "cut at a 45 degree" and the following is added after the words "exterior wall": "or (ii)  
521 lowered from top of slab 4" when a 4" thermal break material such as, but not limited to, felt or  
522 asphalt impregnated fiber board, with a minimum thickness of 1/4" is installed at the upper 4"  
523 of slab".

524 (15) In IRC, Section N1102.4.1 (R402.4.1), in the first sentence, the word "and" is  
525 deleted and replaced with the word "or."

526 ~~[(8)]~~ (16) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and  
527 replaced with the following: "Where allowed by the code official, the builder may certify  
528 compliance to components criteria for items which may not be inspected during regularly  
529 scheduled inspections."

530 ~~[(9)]~~ (17) In IRC, Table N1102.4.1.1 (R402.4.1.1) in the column titled  
531 "COMPONENT, the following changes are made:

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

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

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

538 (a) In the [first] fourth sentence[;], the word "third" is deleted.

539 ~~[(i) "The building or dwelling unit" is deleted and replaced with "A single-family~~  
540 ~~dwelling";]~~

541 [~~(ii) after January 1, 2019, replace the word "five" with "3.5"; and]~~

542 [~~(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate~~  
543 ~~Zones 3 through 8" are deleted.]~~

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

547 [~~(c) In the third sentence, the word "third" is deleted.]~~

548 [~~(d) The following sentence is inserted after the third sentence:]~~ added after the fourth  
549 sentence: "The following parties shall be approved to conduct testing: Parties certified by BPI  
550 or RESNET, or licensed contractors who have completed training provided by Blower Door  
551 Test equipment manufacturers or other comparable training."

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

553 [~~(10)~~]

554 (19) [In] IRC, Section N1103.3.3 (R403.3.3), [the exception for duct air leakage testing  
555 is deleted and replaced with the following:] is deleted.

556 (a) on or after January 1, 2017, and before January 1, 2019, with the following:  
557 "Exception: The duct air leakage test is not required for systems with all air handlers and at  
558 least 65% of all ducts (measured by length) located entirely within the building thermal  
559 envelope.";

560 [~~(b) on or after January 1, 2019, and before January 1, 2021, with the following:~~  
561 ~~"Exception: The duct air leakage test is not required for systems with all air handlers and at~~  
562 ~~least 75% of all ducts (measured by length) located entirely within the building thermal~~  
563 ~~envelope."; and]~~

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

567 [~~(11) In IRC, Section N1103.3.3 (R403.3.3), the following is added after the second~~  
568 ~~exception: "The following parties shall be approved to conduct testing: Parties certified by BPI~~  
569 ~~or RESNET, or licensed contractors who have completed either training provided by Duct Test~~  
570 ~~equipment manufacturers or other comparable training."]~~

571 [~~(12) In IRC, Section N1103.3.4 (R403.3.4):]~~

572 ~~[(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,~~  
573 ~~the number 3 is changed to 6, the number 85 is changed to 114.6; and]~~

574 ~~[(b) in Subsection 2:]~~

575 ~~[(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to~~  
576 ~~8 and the number 113.3 is changed to 226.5;]~~

577 ~~[(ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed~~  
578 ~~to 7 and the number 113.3 is changed to 198.2; and]~~

579 ~~[(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is~~  
580 ~~changed to 169.9;]~~

581 (20) IRC Section N1103.3.3.1 (R403.3.3.1) is deleted.

582 ~~[(13)]~~ (21) In IRC, Section N1103.3.5 (R403.3.5), the [words "or plenums" are  
583 deleted.] the following changes are made:

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

587 (b) The following is added at the end of the section: "The following parties shall be  
588 approved to conduct testing:

589 (i) Parties certified by BPT or RESNET;

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

592 ~~[(14) In IRC, Section N1103.5.3 (R403.5.3), Subsection 5 is deleted and Subsections 6~~  
593 ~~and 7 are renumbered.]~~

594 (22) In IRC, Section N1103.3.6 (R403.3.6) the following changes are made:

595 (a) In Subsection 1:

596 (i) the number 4.0 is changed to 6.0;

597 (ii) the number 113.3 is changed to 170;

598 (iii) the number 3.0 is changed to 5.0; and

599 (iv) the number 85 is changed to 141;

600 (b) in Subsection 2:

601 (i) the number 4.0 is changed to 5.0; and

602 (ii) the number 113.3 is changed to 141;

603 (c) Subsection 3 is deleted.  
 604 (23) In IRC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.  
 605 (24) In IRC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added  
 606 at the beginning of the first sentence.

607 (25) In IRC, Section N1103.5.2 (R403.5.2) the following change is made:

608 (a) Subsections 5 and 6 are deleted and Subsection 7 is renumbered to 5.

609 ~~[(15)]~~ (26) IRC, Section ~~[N1103.6.1 (R403.6.1)]~~ N1103.6.2 (R403.6.2), is deleted and  
 610 replaced with the following: ~~["N1103.6.1 (R403.6.1)"]~~ "N1103.6.2 (R403.6.2) Whole-house  
 611 mechanical ventilation system fan efficacy. Fans used to provide whole-house mechanical  
 612 ventilation shall meet the efficacy requirements of Table ~~[N1103.6.1 (R403.6.1)]~~ N1103.6.2  
 613 (R403.6.2).

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

617 ~~[(16)]~~ (27) In IRC, Section ~~[N1103.6.1 (R403.6.1);]~~ N1103.6.2 (R403.6.2), the table is  
 618 deleted and replaced with the following:

619 "TABLE ~~[N1103.6.1 (R403.6.1)]~~ N1103.6.2 (R403.6.2)",  
 620 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"

627 ~~[(17) In IRC, Section N1106.4 (R406.4), the table is deleted and replaced with the following:]~~

628 ~~["TABLE N1106.4 (R406.4)"]~~

629 ~~[MAXIMUM ENERGY RATING INDEX]~~

630	[CLIMATE ZONE]	[ENERGY RATING INDEX]
631	[3]	[65]
632	[5]	[69]
633	[6]	[68 <sup>u</sup> ]

634 (28) IRC, Section N1103.6.3 (R403.6.3) is deleted.

635 ~~[(18)]~~ (29) In IRC, Section N1103.7 (R403.7) the word "approved" is deleted in the  
 636 first sentence and the following is added after the word "methodologies "[;] : "complying with  
 637 N1103.7.1(R403.7.1)".

638 ~~[(19)]~~ (30) A new IRC, Section N1103.7.1(R403.7.1) is added as follows: "N1103.7.1  
 639 Qualifications. An individual performing load calculations shall be qualified by completing  
 640 HVAC training from one of the following:

- 641 1. HVAC load calculation education from ACCA;
- 642 2. A recognized educational institution;
- 643 3. HVAC equipment manufacturer's training; or
- 644 4. Other recognized industry certification."

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

648 ~~[(21)]~~ (31) In IRC, Section N1104.1 (R404.1), the word "All" is replaced with "Not  
 649 less than 90 percent of the lamps in".

650 (32) IRC, Section N1104.1.1 (R404.1.1) is deleted.

651 (33) IRC, Section N1104.2 (R404.2) is deleted.

652 (34) IRC, Section N1104.3 (R404.3) is deleted.

653 (35) In IRC, section N1105.2 (R405.2) the following changes are made:

- 654 (a) In Subsection 3, the words "approved by the code official" are deleted; and
- 655 (b) In Subsection 3, the following words are added at the end of the sentence: "when  
 656 applicable and readily available".

657 (36) In IRC, Section N1106.3 (R406.3) "Building thermal envelope" is deleted, and  
 658 replaced with "Building thermal envelope and on-site renewables. The proposed total building  
 659 thermal envelope UA, which is the sum of U-factor times assembly area, shall be less than or

660 equal to the building thermal envelope UA using the prescriptive U-factors from Table  
661 N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The area-weighted maximum  
662 fenestration SHGC permitted in Climate Zones 0 through 3 shall be:  $0.30 \times U_{A, \text{Proposed design}}$   
663  $= 1.15 \times U_{A, \text{Prescriptive reference design}}$  (Equation 11-4)."

664 (37) In IRC, Section N1106.3.1 (R406.3.1) is deleted.

665 (38) In IRC, Section N1106.3.2 (R403.3.2) is deleted.

666 (39) In IRC, Section N1106.4 (R406.4) the following changes are made:

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

670 (b) In equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:  
671 " $Q_{\text{tot}}$ "; and

672 (c) In the last sentence the number "5" is deleted and replaced with "15".

673 (40) In IRC N1106.5, in the column titled "ENERGY RATING INDEX" of Table  
674 R406.5, the following changes are made:

675 (a) In the row for "Climate Zone 3", "51" is deleted and replaced with "65";

676 (b) In the row for "Climate Zone 5", "55" is deleted and replaced with "69"; and

677 (c) In the row for "Climate Zone 6", "54" is deleted and replaced with "68".

678 (41) In IRC, Section N1108 (R408) is deleted.

679 (42) In IRC, Section M1401.3 the word "approved" is deleted in the first sentence and  
680 the following is added after the word methodologies ", complying with M1401.3.1".

681 ~~[(22)]~~ (43) A new IRC, Section M1401.3.1, is added as follows: "M1401.3.1

682 Qualifications. An individual performing load calculations shall be qualified by completing  
683 HVAC training from one of the following:

684 1. HVAC load calculation education from ACCA;

685 2. A recognized educational institution;

686 3. HVAC equipment manufacturer's training; or

687 4. Other recognized industry certification."

688 ~~[(23)]~~ (44) In IRC, Section M1402.1, the following is added at the end of the second  
689 sentence: "or UL/CSA 60335-2-40."

690 ~~[(24)]~~ (45) In IRC, Section M1403.1, the characters "/ANCE" are deleted.

691 [~~(25)~~] (46) IRC, Section M1411.9, is deleted.

692 [~~(26)~~] (47) In IRC, Section M1412.1, the characters "/ANCE" are deleted.

693 [~~(27)~~] (48) In IRC, Section M1413.1, the characters "/ANCE" are deleted.

694 Section 6. Section **15A-3-204** is amended to read:

695 **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

696 (1) In IRC, Section M1602.2, a new exception is added at the end of Item 8 as follows:

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

699 (2) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.

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

704 [~~(3) IRC, Section P2503.2, is deleted and replaced with the following: "P2503.2  
705 Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure  
706 detector fire protection, double check detector fire protections, and spill-resistant vacuum  
707 breaker backflow preventer assemblies shall be tested at the time of installation, immediately  
708 after repairs or relocation and at least annually. The Utah Cross-Connection Control  
709 Commission has adopted the field test procedures published by the Manual of Cross  
710 Connection Control, Tenth Edition. This manual is published by the University of Southern  
711 California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges  
712 shall comply with ASSE 1064."~~]

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

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

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

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



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

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

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

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

731 (5) IRC, Section P2503.8.2, is deleted and replaced with the following: "P2503.2  
732 Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure  
733 detector fire protection, double check detector fire protections, and spill-resistant vacuum  
734 breaker backflow preventer assemblies shall be tested at the time of installation, immediately  
735 after repairs or relocation and at least annually. The Utah Cross-Connection Control  
736 Commission has adopted the field test procedures published by the Manual of Cross  
737 Connection Control, Tenth Edition. This manual is published by the University of Southern  
738 California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges  
739 shall comply with ASSE 1064."

740 *The following section is affected by a coordination clause at the end of this bill.*

741 Section 7. Section **15A-3-205** is amended to read:

742 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

743 (1) IRC, Section P2602.1, is deleted and replaced with the following: "P2602.1  
744 General. The water-distribution system of any building or premises where plumbing fixtures  
745 are installed shall be connected to a public water supply. Where a potable public water supply  
746 is not available, individual sources of potable water supply shall be utilized provided that the  
747 source has been developed in accordance with Utah Code Sections [73-3-1](#), [73-3-3](#), and  
748 [73-3-25](#), as administered by the Department of Natural Resources, Division of Water Rights. In  
749 addition, the quality of the water shall be approved by the local health department having  
750 jurisdiction. The source shall supply sufficient quantity of water to comply with the  
751 requirements of this chapter.

752 Every building in which plumbing fixtures are installed and all premises having

753 drainage piping shall be connected to a public sewer where the sewer is accessible and is  
754 within 300 feet of the property line in accordance with Utah Code Section 10-8-38, or an  
755 approved private sewage disposal system in accordance with Utah Administrative Code, Rule  
756 R317-4, as administered by the Department of Environmental Quality, Division of Water  
757 Quality.

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

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

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

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

776 (5) In IRC, Section P2705, a new Item 9 is added as follows: "9. Lavatories. A lavatory  
777 shall not be set closer than 12 inches from its center to any side wall or partition. A lavatory  
778 shall be provided with a clearance of 24 inches in width and 21 inches in depth in front of the  
779 lavatory to any side wall, partition, or obstruction." Remaining item numbers are renumbered  
780 accordingly.

781 (6) In IRC, Section P2801.6.2, the following is added at the end of the section: "When  
782 permitted by the code official, the pan drain may be directly connected to a soil stack, waste  
783 stack, or branch drain. The pan drain shall be individually trapped and vented as required in

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

787 (7) A new IRC, Section P2801.6.3, is added as follows: "P2801.6.3 Pan designation. A  
788 water heater pan shall be considered an emergency receptor designated to receive the discharge  
789 of water from the water heater only and shall not receive the discharge from any other fixtures,  
790 devises, or equipment."

791 (8) IRC, Section P2801.8, is deleted and replaced with the following: "P2801.8 Water  
792 heater seismic bracing. As a minimum requirement, water heaters shall be anchored or strapped  
793 to resist horizontal displacement caused by earthquake motion. Strapping shall be at points  
794 within the upper one-third and lower one-third of the appliance's vertical dimensions.

795 (9) In IRC, Section P2804.6.1, a new number 15 is added as follows: "15. Be installed  
796 in accordance with the manufacturer's installation instructions, not to exceed 180 degrees in  
797 directional changes."

798 (10) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow  
799 assembly testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced  
800 pressure detector fire protection, double check detector fire protection, and spill-resistant  
801 vacuum breaker backflow preventer assemblies shall be tested at the time of installation,  
802 immediately after repairs or relocation and at least annually. The Utah Cross Connection  
803 Control Commission has adopted the field test procedures published by the Manual of Cross  
804 Connection Control, Tenth Edition. This manual is published by the University of Southern  
805 California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges  
806 shall comply with ASSE 1064.

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

808 "P2902.[1-2] 1.1 General Installation Criteria.

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

813 P2902.1.2 Specific Installation Criteria.

814 P2902.[1-2] 1.3 Reduced Pressure Principle Backflow Prevention Assembly.

815 The reduced pressure principle backflow prevention assembly shall be installed as  
816 follows:

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

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

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

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

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

828 P2902.~~[1.2.2]~~ 1.4 Double Check Valve Backflow Prevention Assembly.

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

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

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

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

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

839 P2902.~~[1.2.3]~~ 1.5 Pressure Vacuum Break Assembly and Spill Resistant Pressure  
840 Vacuum Breaker Assembly.

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

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

845 b. The assembly shall be installed a minimum of 12 inches above all downstream

846 piping and the highest point of use.

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

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

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

851 (12) In IRC, Table 2903.2, the following changes are made in the column titled  
852 "MAXIMUM FLOW RATE OR QUANTITY":

853 (a) In the row titled "Lavatory faucet" the text is deleted and replaced with "1.5 gpm at  
854 60 psi".

855 (b) In the row titled "Shower head" the text is deleted and replaced with "2 gpm at 80  
856 psi".

857 (13) In IRC, Section P2903.3, the words "public water main or an" are deleted and the  
858 following sentence is added at the end: "A water pressure booster pump may not be connected  
859 to a public water main unless allowed by Utah Administrative Code, Rule R309-540."

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

862 (15) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the  
863 following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve, shutoff  
864 valves shall be required on each fixture supply pipe to each plumbing appliance and to each  
865 plumbing fixture other than bathtubs and showers."

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

867 "P2910.5 Potable water connections.

868 A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a  
869 connection to the potable water system for backup must install a Reduced Pressure Principle  
870 Assembly (RP) directly downstream of the potable water connection (Stop and Waste) and  
871 install a "dual source connection" directly downstream from the (RP) installed so that either the  
872 potable water system or the nonpotable water is connected at any time to prevent a direct Cross  
873 Connection and to protect the potable water from any potential hazard from the nonpotable  
874 water system. See Utah Code Section [19-4-112](#). Note: RP must be tested within 10 days of  
875 installation and annually whether the drinking water is used or not."

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

877 "P2910.9.5 Makeup water.

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

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

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

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

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

890 "P3009 Graywater soil absorption systems: Graywater recycling systems utilized for  
891 subsurface irrigation for single-family residences shall comply with the requirements of Utah  
892 Administrative Code, R317-401, Graywater Systems. Graywater recycling systems utilized for  
893 subsurface irrigation for other occupancies shall comply with Utah Administrative Code,  
894 R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal Systems,  
895 and Utah Administrative Code, R317-4, Onsite Wastewater Systems."

896 (22) In IRC, Section P3101.4, the following sentence is added at the end of the  
897 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the  
898 wall with an elbow pointing downward."

899 (23) In IRC, Section P3104.4, the following sentence is added at the end of the  
900 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain  
901 and floor sink installations when installed below grade in accordance with Chapter 30, and  
902 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

903 (24) In IRC, Section E3401.2 the second sentence is modified by adding the words  
904 "townhouses", after the word "dwellings" and the word "their" before the word "accessory" and  
905 the following is added after "NFPA 70", "such as, but not limited to the following equipment:

906 (a) fixed outdoor electric deicing and snow-melting equipment;

907 (b) motors;

- 908           (c) generators;
- 909           (d) transformers;
- 910           (e) phase converters;
- 911           (f) stationary standby batteries;
- 912           (g) elevators;
- 913           (h) dumbwaiters;
- 914           (i) platform lifts;
- 915           (j) stairway chairlifts;
- 916           (k) electric vehicle power transfer systems;
- 917           (l) electric welders;
- 918           (m) audio signal processing, amplification, and reproduction equipment;
- 919           (n) information technology equipment;
- 920           (o) solar photovoltaic (PV) systems;
- 921           (p) optional standby systems;
- 922           (q) interconnected electric power production sources;
- 923           (r) energy storage systems; and
- 924           (s) energy management systems.

925           Section 8. Section **15A-3-206** is amended to read:

926           **15A-3-206. Amendments to Chapters 36, 37, 39, and 44 and Appendix F of IRC.**

927           (1) In IRC, Section E3601.6.2, a new exception is added as follows: "Exception: An  
928 occupant of an accessory dwelling unit is not required to have access to the disconnect serving  
929 the dwelling unit in which they reside."

930           (2) IRC, Section E3606.5, is deleted.

931           (3) IRC, Section E3901.4.2, is deleted and replaced with the following:

932           "E3901.4.2 Island and Peninsular Countertops and Work Spaces. Receptacle outlets, if  
933 installed to serve an island or peninsular countertop or work surface, shall be installed in  
934 accordance with E3901.4.3. If a receptacle outlet is not provided to serve an island or  
935 peninsular countertop or work surface, provisions shall be provided at the island or peninsula  
936 for future addition of a receptacle outlet to serve the island or peninsular countertop or work  
937 surface.

938           (4) IRC, Section E3901.4.3, is deleted and replaced with the following:

939 "E3901.4.3 Receptacle Outlet Location. Receptacle outlets shall be located in one or  
940 more of the following:

941 1. On or above, but not more than 20 inches (508 mm) above a countertop or work  
942 surface.

943 2. In a countertop using receptacle outlet assemblies listed for use in countertops.

944 3. In a work surface using receptacle outlet assemblies listed for use in work surface or  
945 listed for use in countertops.

946 Receptacle outlets rendered not readily accessible by appliances fastened in place,  
947 appliance garages, sinks, or range tops as covered in the exception to Section E3901.4.1 or  
948 appliances occupying assigned spaces shall not be considered as these required outlets.

949 4. Under the countertop not more than 14 inches from the bottom leading edge of the  
950 countertop."

951 (5) In IRC, Section 3902.1, after the word "125-volt" add "single phase 15 and 20  
952 ampere" and strike the words "through 250 volt."

953 (6) In IRC, Section 3902.2, after the word "125-volt" add "single phase 15 and 20  
954 ampere" and strike the words "through 250 volt."

955 (7) In IRC, Section 3902.3, after the word "125-volt" add "single phase 15 and 20  
956 ampere" and strike the words "through 250 volt."

957 (8) In IRC, Section 3902.4, after the word "125-volt" add "single phase 15 and 20  
958 ampere" and strike the words "through 250 volt."

959 (9) In IRC, Section 3902.5, after the word "125-volt" add the words "single phase 15  
960 and 20 ampere in unfinished portions of the basement shall have ground-fault  
961 circuit-interrupter protection for personnel" and delete the rest of the section.

962 (10) In IRC, Section 3902.6, after the word "125-volt" add "single phase 15 and 20  
963 ampere" and strike the words "through 250 volt."

964 (11) In IRC, Section 3902.7, after the word "125-volt" add "single phase 15 and 20  
965 ampere" and strike the words "through 250 volt."

966 (12) In IRC, Section 3902.8, after the word "125-volt" add "single phase 15 and 20  
967 ampere" and strike the words "through 250 volt."

968 (13) In IRC, Section 3902.9, after the word "125-volt" add "single phase 15 and 20  
969 ampere" and strike the words "through 250 volt."



970 (14) IRC, Section 3902.10, is deleted.

971 (15) In IRC, Section 3902.12, after the word "125-volt" add "single phase 15 and 20  
972 ampere" and strike the words "through 250 volt."

973 (16) In IRC, Section 3902.13, after the word "125-volt" add "single phase 15 and 20  
974 ampere" and strike the words "through 250 volt."

975 (17) IRC, Section E3902.16 is deleted.

976 (18) IRC Section E3902.17 is deleted.

977 (19) IRC, Section E3902.18 is deleted.

977a **Ŝ→ (20) IRC, Section 4002.11, is deleted and replaced with the following: "4002.11 Bathtub**  
977b **and Shower Space. Receptacles shall not be installed within or directly over a bathtub or**  
977c **shower stall." ←Ŝ**

978 **Ŝ→ [(20)] (21) ←Ŝ** IRC, Chapter 44, is amended by deleting the standard for "ANCE."

979 **Ŝ→ [(21)] (22) ←Ŝ** In IRC, Chapter 44, the standard for ASHRAE is amended by changing  
979a "34-2013"  
980 to "34-2019."

981 **Ŝ→ [(22)] (23) ←Ŝ** In IRC, Chapter 44, the standard for CSA, is amended by changing the:

982 (a) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA  
983 60335-2-40-2019"; and

984 (b) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
985 Requirements for Motor-Compressors" to "Standard for Household and Similar Electrical  
986 Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air Conditioners and  
987 Dehumidifiers-3rd Edition."

988 **Ŝ→ [(23)] (24) ←Ŝ** In IRC, Chapter 44, the standard for UL, is amended by changing the:

989 (a) standard reference number "1995-2011" to "1995-2015";

990 (b) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA  
991 60335-2-40-2019"; and

992 (c) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
993 Requirements for Motor-Compressors" to "Standard for Household and Similar Electrical  
994 Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air Conditioners and  
995 Dehumidifiers-3rd Edition."

996 **Ŝ→ [(24)] (25) ←Ŝ** In IRC, Chapter 44, the standard for ANSI/RESNET/ICC 201-2019  
996a section 4.4.4

997 is added follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and  
998 Air Conditioners with the more recent Manufacturers Equipment Performance Ratings (HSPF2  
999 or SEER2) available, and HSPF and SEER are not available, these ratings shall be converted to  
1000 HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion factors in Table

1001 4.4.4.1(1). If the type of equipment is not determined, the conversion shall default to the  
 1002 Ducted Split System factors. All calculations, including Equation 4.1-1a shall use HSPF or  
 1003 SEER values as made available by the Manufacturer or converted as specified in this section.

1004 (a) (i) (A) Table 4.4.4.1(1) SEER2 and HSPF2 Conversion Factors3.

Equipment Type	SEER2/SEER	EER/EER4	HSPF/HSPF
Ductless Systems	1.00	1.00	0.90
Ducted Split System	0.95	0.95	0.85
Ducted Package System	0.95	0.95	0.84
Small Duct High Velocity System	1.00	not applicable	0.85
Ducted Space-Constrained Air Conditioner	0.97	not applicable	not applicable
Ducted Space-Constrained Heat Pump		not applicable	0.85

1012 (25) IRC, Chapter 44, is amended by adding the following reference standard:

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

1015 ~~[(25)]~~ (26) In IRC, Chapter 44, is amended by adding the following reference standard:

1016 "UL 9540-20: Energy Storage Systems and Equipment; R328.1, R328.2, and R328.6."

1017 ~~[(26)]~~ (27) (a) When passive radon controls or portions thereof are voluntarily  
 1018 installed, the voluntary installation shall comply with Appendix F of the IRC.

1019 (b) An additional inspection of a voluntary installation described in Subsection

1020 [~~(22)~~(a)] (27)(a) is not required.

1021 Section 9. Section **15A-3-401** is amended to read:

1022 **15A-3-401. General provisions.**

1023 (1) The amendments in this part are adopted as amendments to the IMC to be  
1024 applicable statewide.

1025 (2) In IMC, Section 505.4, a new subsection 505.4.1 is added as follows: "505.4.1  
1026 Makeup Air. Makeup air is not required in residential dwelling units where gas, liquid, or solid  
1027 fuel-burning appliances located within a units air barrier are all direct-vent or use a mechanical  
1028 draft venting system."

1029 (3) In IMC, Section 1004.2, the first sentence is deleted and replaced with the  
1030 following: " In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by  
1031 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor  
1032 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in  
1033 private residences or in apartment houses of less than five family units. Boilers shall be  
1034 installed in accordance with their listing and labeling, with minimum clearances as prescribed  
1035 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

1036 [~~(3)~~] (4) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word  
1037 "boilers".

1038 [~~(4)~~] (5) In IMC, Section 1209.3, the following words are added at the end of the  
1039 section: "or other methods approved for the application."

1040 Section 10. Section **15A-3-701** is amended to read:

1041 **15A-3-701. General provisions.**

1042 The following is adopted as an amendment to the IECC to be applicable statewide:

1043 (1) IECC, Section C405.11, is deleted and replaced with the following: "C405.11  
1044 Automatic receptacle control. Automatic receptacle control to be optional and decided by  
1045 property owner."

1046 (2) In IECC, Section R102.1.1, a new section R102.1.1 is added as follows: "R102.1.1  
1047 National Green Building Standard complying with ICC 700-2020 National Green Building  
1048 Standard and achieving the Gold rating level for the energy efficiency category shall be deemed  
1049 to exceed the energy efficiency required by this code. The building shall also meet the  
1050 requirements identified in table N1105.2 and the building thermal envelope efficiency is

1051 greater than or equal to levels of efficiency and solar heat gain coefficients (SHGC) in Tables  
1052 N1102.2.2 and N1102.1.3 of the 2009 IRC."

1053 ~~[(2)]~~ (3) In IECC, Section R103.2, all words after the words "herein governed." are  
1054 deleted and replaced with the following: "Construction documents include all documentation  
1055 required ~~[to be submitted in order to issue a building permit.]"~~ for building permits shall  
1056 include only those items specified in 10-5-132(8) of the Utah Municipal Code."

1057 ~~[(3)]~~ (4) In IECC, Section R303.1.3 the following changes are made:

1058 (a) The following is added at the end of the first sentence "or EN  
1059 14351-1:2006+A1:2010."

1060 (b) The word "accredited" is replaced with "approved" in the third sentence.

1061 (c) The following sentence is added after the third sentence: "A conversion factor of  
1062 5.678 shall be used to convert from U values expressed in SI units: ()/53678=."

1063 (d) After "NFRC 200" the following words are added: "or EN  
1064 14351-1:2006+A1:2010", and in the sentence the word "accredited" is replaced with the word  
1065 "approved".

1066 (e) The following new sentence shall be inserted immediately prior to the last sentence:  
1067 "Total Energy Transmittance values may be substituted for SHGC, and Luminous  
1068 Transmission values may be substituted for VT."

1069 (5) In IECC, Section R303.3, all wording after the first sentence is deleted.

1070 ~~[(4)]~~ (6) In IECC, Section R401.2, ~~[a new number 4 is added as follows:]~~ in the first  
1071 sentence, the words "Section R401.13.5 and" are deleted.

1072 ~~["4. Compliance may be shown by demonstrating a result, using the software~~  
1073 ~~RESCheck 2012 Utah Energy Conservation Code, of:]~~

1074 ~~[(a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than~~  
1075 ~~code";]~~

1076 ~~[(b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than~~  
1077 ~~code"; and]~~

1078 ~~[(c) after January 1, 2021, "5 percent better than code"."]~~

1079 ~~[(5) In IECC, Table R402.2, in the column entitled MASS WALL R-VALUE, a new~~  
1080 ~~footnote j is added as follows:]~~

1081 ~~["j. Log walls complying with ICC400 and with a minimum average wall thickness of 5~~

1082 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a  
1083 .31 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil,  
1084 84 AFUE, and all other component requirements are met."]

1085 (7) In IECC, Section R401.2.5 is deleted.

1086 (8) In IECC, Section R401.3 Number 7, the words "and the compliance path used" are  
1087 deleted.

1088 (9) In IECC Table R402.1.2, the following changes are made:

1089 (a) in the column titled "Fenestration U-Factor" the following changes are made:

1090 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;

1091 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
1092 0.32; and

1093 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;

1094 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in  
1095 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;

1096 (c) in the column titled "Climate U-Factor" the following changes are made:

1097 (i) in the row titled "Climate Zone 3" delete 0.026 and replace it with 0.030;

1098 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.024 and replace it with  
1099 0.026; and

1100 (iii) in the row titled "Climate Zone 6" delete 0.024 and replace it with 0.026;

1101 (d) in the column titled "Wood Frame Wall U Factor", the following changes are made:

1102 (i) in the row titled "Climate Zone 3" delete 0.060 and replace it with 0.060;

1103 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.045 and replace it with  
1104 0.060; and

1105 (iii) in the row titled "Climate Zone 6" delete 0.045 and replace it with 0.060;

1106 (e) in the column titled "Basement wall U-Factor" the following changes are made:

1107 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.050 and replace it with  
1108 0.075; and

1109 (ii) in the row titled "Climate Zone 6" delete 0.50 and replace it with 0.065; and

1110 (f) in the column titled "Crawl Space Wall U-Factor" the following changes are made:

1111 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.055 and replace it with  
1112 0.078; and

- 1113 (ii) in the row titled Climate Zone 6 delete 0.55 and replace it with 0.065.
- 1114 (10) In IECC, Table R402.1.3 the following changes are made:
- 1115 (a) in the column titled "Fenestration U-Factor" the following changes are made:
- 1116 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;
- 1117 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with
- 1118 0.32; and
- 1119 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;
- 1120 (b) in the column titled "Glazed Fenestration" SHGC the following change is made: in
- 1121 the row titled Climate Zone 3" deleted 0.25 and replace it with 0.35;
- 1122 (c) in the Column R-Value the following changes are made:
- 1123 (i) in the row titled "Climate Zone 3" delete 49 and replace it with 38;
- 1124 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 60 and replace it with 49;
- 1125 and
- 1126 (iii) in the row titled "Climate Zone 6" delete 60 and replace it with 49;
- 1127 (d) in the Column titled "Wood Frame Wall R-Value" the following changes are made:
- 1128 (i) in the row titled "Climate Zone 3" delete all values and replace with "20+ Oci or
- 1129 13+5ci or 0+15ci";
- 1130 (ii) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
- 1131 21+Oci or 15+5ci or 0+15ci"; and
- 1132 (iii) in the row titled Climate Zone 6 delete all values and replace with "21+Oci or
- 1133 "15+5ci or 0+15ci";
- 1134 (e) in the column titled "Basement Wall R-Value" the following changes are made:
- 1135 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
- 1136 "15+Oci or 0+11ci or 11+5ci"; and
- 1137 (ii) in the row titled Climate Zone 6 delete all values and replace with "19+Oci or
- 1138 0+13ci or 11+5ci";
- 1139 (f) in the column titled "Slab R-Value and Depth" the following changes are made:
- 1140 (i) in the row titled "Climate Zone 3" delete "10ci. 2ft" and replace it with "NR"; and
- 1141 (ii) in the row titled "Climate Zone 5 & Marine 4" delete "4 ft" and replace it with "2
- 1142 ft";
- 1143 (g) in the column titled "Crawl Space Wall R-Value" the following changes are made:

1144 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
1145 "15+ Oci or 0 + 11ci or 11 +5ci"; and

1146 (ii) in the row titled Climate Zone 6 delete all values and replace with "19 + Oci or 0 +  
1147 13ci or 0 + 11 + 5 ci"; and

1148 (h) in IECC, Table R402.2, in the column titled "MASS WALL R-VALUE", a new  
1149 footnote "j" is added as follows: "j Log walls complying with ICC400 and with a minimum  
1150 average wall thickness of 5 inches or greater shall be permitted in "Zones 5 through 8" when  
1151 overall window glazing has a .31 U-factor or lower, minimum heating equipment efficiency is  
1152 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."

1153 [~~(6)~~] (11) In IECC, a new subsection R402.1.5.1 is added as follows: "R402.1.5.1  
1154 RESCheck 2012 Utah Energy Conservation Code. Compliance with section N1102.1.5  
1155 (R402.1.5) may be satisfied using the software RESCheck 2012 Utah Energy Conservation  
1156 Code, which shall satisfy the R-value and U-factor requirements of N1102.1, N1102.2, and  
1157 N1102.3, provided the following conditions are met:

1158 (a) In Climate Zone 5 and 6 the software result shall show 5% better than code; and

1159 (b) In Climate Zone 3, the software result shall show 5% better than code when  
1160 software inputs for window U-factor = 0.65 and window SHGC = 0.40, notwithstanding actual  
1161 windows installed shall conform to requirements of Tables N1102.1.2 (R402.1.2) and  
1162 N1102.1.3 (R402.1.3)."

1163 (12) In IECC, Section R402.2.1, a new section is added as follows: "R402.2.1.1.  
1164 Unvented attic and unvented enclosed rafter assemblies. Unvented attic and unvented enclosed  
1165 rafter assemblies conforming to Section R806.5 shall be provided with an R-value of R-22  
1166 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26 (maximum U-factor  
1167 of 0.038) in Climate Zones 5-B and 6-B shall be permitted provided all the following  
1168 conditions are met:

1169 1. The unvented attic assembly complies with the requirements of the International  
1170 Residential Code, Section R806.5.

1171 2. The house shall attain a blower door test result < 2.5ACH 50.

1172 3. The house shall require a whole house mechanical ventilation system that does not  
1173 rely solely on a negative pressure strategy (must be positive, balanced or hybrid).

1174 4. Where insulation is installed below the roof deck and the exposed portion of roof

1175 rafters are not already covered by the R-20 depth of the air-impermeable insulation, the  
1176 exposed portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly  
1177 covered by drywall/finished ceiling. Roof rafters are not required to be covered by minimum  
1178 R-3 if a continuous insulation is installed above the roof deck."

1179 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be  
1180 inside the building thermal envelope.

1181 ~~[(7)]~~ (13) A new IECC, Section R402.2.1.3 is added as follows: "R402.2.1.3 Walls  
1182 with Air-Impermeable Insulation. Where IECC Table R402.1.2 requires R-20 for wood framed  
1183 walls in climate zones 3-B and 5-B or R-20+5CI for climate zone 6-B, an air-impermeable  
1184 insulation installed in the wall cavity with R-value of R-15 for climate zones 3-B and 5-B or  
1185 R-20 for climate zone 6-B shall be deemed equivalent to the provisions in IECC Table  
1186 R402.1.2, provided the home attains a blower door test < 2.5ACH."

1187 (14) In IECC, Section R402.2.9.1 the numeral "(i)" is added before the words "cut at a  
1188 45 degree" and the following is added after the words "exterior wall:": "or (ii) lowered from  
1189 top of slab 4" when a 4" thermal break material such as, but not limited to, felt or asphalt  
1190 impregnated fiber board, with a minimum thickness of 1/4" is installed at the upper 4" of slab."

1191 (15) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and  
1192 replaced with the word "or".

1193 ~~[(8)]~~ (16) In IECC, Section R402.4.1.1, the ~~[last sentence is]~~ second and the last  
1194 sentences are deleted and replaced with the following: "Where ~~[allowed]~~ required by the code  
1195 official, the builder ~~[may]~~ shall certify compliance ~~[to components criteria for items which may~~  
1196 not be inspected during regularly scheduled inspections] with criteria indicated in Table  
1197 R1102.4.1 for items which are not readily visible during regularly scheduled inspections."

1198 ~~[(9)]~~ (17) In IECC, Table R402.4.1.1 in the column titled "COMPONENT", the  
1199 following changes are made:

1200 (a) In the row "Rim Joists" the word "exterior" in the first sentence is deleted, and the  
1201 second sentence is deleted.

1202 (b) In the row "Electrical/phone box on the exterior walls" the last sentence is deleted  
1203 and replaced with: "Alternatively, close cell foam, caulking or gaskets may be used, or air  
1204 sealed boxes may be installed."

1205 (18) In IECC, Section R402.4.1.2, the following changes are made:



- 1206 (a) In the ~~[first] fourth~~ sentence~~[:]~~, the word "third" is deleted.
- 1207 [(i) ~~"The building or dwelling unit" is deleted and replaced with "A single-family~~
- 1208 ~~dwelling";]~~
- 1209 [~~(ii) after January 1, 2019, replace the word "five" with "3.5"; and]~~
- 1210 [~~(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate~~
- 1211 ~~Zones 3 through 8" are deleted.]~~
- 1212 (b) The following sentence is ~~[inserted after the first sentence: "A multi-family~~
- 1213 ~~dwelling and townhouse shall be tested and verified as having an air leakage rate of not~~
- 1214 ~~exceeding five air changes per hour."]~~ added after the fourth sentence:
- 1215 [~~(c) In the third sentence, the word "third" is deleted.]~~
- 1216 [~~(d) The following sentence is inserted after the third sentence:]~~ "The following parties
- 1217 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed
- 1218 contractors who have completed training provided by Blower Door Test equipment
- 1219 manufacturers or other comparable training."
- 1220 (c) In the first Exception the second sentence is deleted.
- 1221 [~~(10) In IECC, Section R403.3.3, the exception for duct air leakage testing is deleted~~
- 1222 ~~and replaced with the following:]~~
- 1223 [~~(a) on or after January 1, 2017, and before January 1, 2019, with the following:~~
- 1224 ~~"Exception: The total leakage test is not required for systems with all air handlers and at least~~
- 1225 ~~65% of all ducts (measured by length) located entirely within the building thermal envelope.";~~]
- 1226 [(b) on or after January 1, 2019, and before January 1, 2021, with the following:
- 1227 ~~"Exception: The duct air leakage test is not required for systems with all air handlers and at~~
- 1228 ~~least 75% of all ducts (measured by length) located entirely within the building thermal~~
- 1229 ~~envelope."; and]~~
- 1230 [(c) on or after January 1, 2021, with the following: ~~"Exception: The duct air leakage~~
- 1231 ~~test is not required for systems with all air handlers and at least 80% of all ducts (measured by~~
- 1232 ~~length) located entirely within the building thermal envelope."]~~
- 1233 [~~(11) In IECC, Section R403.3.3, the following is added after the exception:]~~
- 1234 [~~"The following parties shall be approved to conduct testing:]~~
- 1235 [~~1. Parties certified by BPI or RESNET.]~~
- 1236 [~~2. Licensed contractors who have completed training provided by Duct Test equipment~~

1237 ~~manufacturers or other comparable training."~~

1238 ~~[(12) In IECC, Section R403.3.4:]~~

1239 ~~[(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170,~~  
1240 ~~the number 3 is changed to 6, and the number 85 is changed to 114.6; and]~~

1241 ~~[(b) in Subsection 2:]~~

1242 ~~[(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to~~  
1243 ~~8 and the number 113.3 is changed to 226.5;]~~

1244 ~~[(ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed~~  
1245 ~~to 7 and the number 113.3 is changed to 198.2; and]~~

1246 ~~[(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is~~  
1247 ~~changed to 169.9;]~~

1248 (19) In IECC, Section R402.4.1.3 the following changes are made:

1249 (a) in the first sentence, the words 5.0 air changes per hour in Climate Zones 0, 1 and 2,  
1250 and 3.0 are deleted and replaced with 4.0., and the words in Climate Zone 3 through 8 are  
1251 deleted;

1252 (b) in the first sentence of the Exception, 0.28 is replaced with 5.0 air changes per hour  
1253 or 0.30; and

1254 (c) in Number 2 the words of "conditioned floor area" are inserted before the words "or  
1255 smaller."

1256 (20) IECC, Section R402.6 is deleted.

1257 (21) In IECC, Section R403.3.1 is deleted and replaced with the following: "Ducts  
1258 located outside conditioned space. Supply and return ducts in attics shall be insulated to a  
1259 minimum of R-8 where 3 inches (76.2 mm) in diameter and greater and R-6 where less than 3  
1260 inches (76.2 mm) in diameter. Supply and return ducts in other portions of the building shall be  
1261 insulated to a minimum of R-6 where 3 inches (76.2 mm) in diameter or greater and R-4.2  
1262 where less than 3 inches (76.2 mm) in diameter. Exception: Ducts or portions thereof located  
1263 completely inside the building thermal envelope."

1264 (22) In IECC, Section R403.3.3, is deleted.

1265 (23) In IECC, Section R403.3.3.1 is deleted.

1266 ~~[(13)]~~ (24) In IECC, Section R403.3.5, the [words "or plenums" are deleted.] following  
1267 changes are made:

1268 (a) A second Exception is added as follows: "A duct leakage test shall not be required  
 1269 for any system designed such that no air handlers or ducts are located within unconditioned  
 1270 attics."

1271 (b) The following is added at the end of the section: "The following parties shall be  
 1272 approved to conduct testing:

1273 (i) Parties certified by BPT or RESNET

1274 (ii) Licensed contractors who have completed training provided by Duct Test  
 1275 equipment manufacturers or other comparable training."

1276 ~~[(14) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are~~  
 1277 ~~renumbered.]~~

1278 (25) In IECC, Section N1103.3.6 (R403.3.6) the following changes are made:

1279 (a) in Subsection 1:

1280 (i) the number 4.0 is changed to 6.0;

1281 (ii) the number 113.3 is changed to 170;

1282 (iii) the number 3.0 is changed to 5.0; and

1283 (iv) the number 85 is changed to 141;

1284 (b) in Subsection 2:

1285 (i) the number 4.0 is changed to 5.0; and

1286 (ii) the number 113.3 is changed to 141; and

1287 (c) Subsection 3 is deleted.

1288 (26) In IECC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.

1289 (27) In IECC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added  
 1290 at the beginning of the first sentence.

1291 ~~[(15)]~~ (28) IECC, Section [R403.6.1] R403.6.2, is deleted and replaced with the  
 1292 following: ["R403.6.1] "R403.6.2 Whole-house mechanical ventilation system fan efficacy.  
 1293 Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements  
 1294 of Table [R403.6.1] R403.6.2."

1295 "Exception: Where an air handler that is integral to tested and listed HVAC equipment  
 1296 is used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
 1297 electronically commutated motor."

1298 ~~[(16)]~~ (29) In IECC, Section [R403.6.1] R403.6.2, the table is deleted and replaced

1299 with the following:

1300 "TABLE [~~R403.6.1~~] R403.6.2"

1301 "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"

1308 [~~(17) In IECC, Section R406.5, the table is deleted and replaced with the following:~~]

1309 [~~"TABLE R406.5]~~

1310 [~~MAXIMUM ENERGY RATING INDEX]~~

[ <del>CLIMATE ZONE</del> ]	[ <del>ENERGY RATING INDEX</del> ]
[ <del>3</del> ]	[ <del>65</del> ]
[ <del>5</del> ]	[ <del>69</del> ]
[ <del>6</del> ]	[ <del>68"</del> ]

1315 [~~(18)~~] (30) IECC, Section R403.6.3 is deleted

1316 (31) In IECC, Section R403.7 the word "approved" is deleted in the first sentence and  
 1317 the following is added after the word "methodologies": "complying with R403.7.1."

1318 (32) A new IECC, Section R403.7.1, is added as follows: "R403.7.1 Qualifications. An  
 1319 individual performing load calculations shall be qualified by completing HVAC training from  
 1320 one of the following:

- 1321 1. HVAC load calculation education from ACCA;
- 1322 2. A recognized educational institution;
- 1323 3. HVAC equipment manufacturer's training; or
- 1324 4. Other recognized industry certification."

1325 (33) In IECC, Section R404.1, the word "All" is replaced with "Not less than 90  
 1326 percent of the lamps in."

- 1327 (34) IECC, Section R404.1.1 is deleted.
- 1328 (35) IECC, Section R404.2 is deleted.
- 1329 (36) IECC, Section R404.3 is deleted.
- 1330 (37) In IECC, Section R405.2 the following changes are made:
- 1331 (a) in Subsection 3 the words "approved by the code official" are deleted; and
- 1332 (b) in Subsection 3 the following words are added at the end of the sentence: "when
- 1333 applicable and readily available."
- 1334 (38) in IECC, Section R406.3 "Building thermal envelope" is deleted, and replaced
- 1335 with the following: "Building thermal envelope and on-site renewables. The proposed total
- 1336 building thermal envelope UA, which is the sum of U-factor times assembly area, shall be less
- 1337 than or equal to the building thermal envelope UA using the prescriptive U-factors From Table
- 1338 N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The area-weighted maximum
- 1339 fenestration SHGC permitted in Climate Zones 0 through 3 shall be 0.30.UAProposed design =
- 1340 1.15 x UAPrescriptive reference design (Equation 11-4) "
- 1341 (39) in IECC, Section R406.3.1 is deleted.
- 1342 (40) in IECC, Section R406.3.2 is deleted.
- 1343 (41) in IECC, Section R406.4 the following changes are made:
- 1344 (a) in the first sentence, the words "in accordance with Equation 11-5" are deleted and
- 1345 replaced with: "permitted to be calculated using the minimum total air exchange Rate for the
- 1346 rated home (Qtot) and for the index adjustment factor in accordance with Equation 11.5.";
- 1347 (b) in equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:
- 1348 "Qtot"; and
- 1349 (c) in the last sentence the number "5" is deleted and replaced with "15".
- 1350 (42) In IECC, Section R406.5 in the column titled ENERGY RATING INDEX of
- 1351 Table R406.5, the following changes are made:
- 1352 (a) in the row for Climate Zone 3, "51" is deleted and replaced with "65";
- 1353 (b) in the row for Climate Zone 5, "55" is deleted and replaced with "69"; and
- 1354 (c) in the row for Climate Zone 6 "54" is deleted and replaced with "68".
- 1355 (43) In IECC, Section R408 is deleted.
- 1356 (44) In IECC, Chapter 6, the standard for ANSI/RESNET/ICC 201-2019 section 4.4.4
- 1357 is added as follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and

1358 Air Conditioners with the more recent Manufacturers Equipment Performance Ratings (HSPF2  
 1359 or SEER2) available, and HSPF and SEER are not available, these ratings shall be converted to  
 1360 HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion factors in Table  
 1361 4.4.4.1(1). If the type of equipment is not determined, the conversion shall default to the  
 1362 Ducted Split System factors. All calculations, including Equation 4.1-1a shall use HSPF or  
 1363 SEER values as made available by the Manufacturer or converted as specified in this section.  
 1364 Table 4.4.4.1(1) SEER2 and HSPF2 Conversion "

<u>Equipment Type</u>	<u>SEER2/SEER</u>	<u>EER2/EER4</u>	<u>HSPF2/HSPF</u>
<u>Ductless Systems</u>	<u>1.00</u>	<u>1.00</u>	<u>0.90</u>
<u>Ducted Split System</u>	<u>0.95</u>	<u>0.95</u>	<u>0.85</u>
<u>Ducted Packaged System</u>	<u>0.95</u>	<u>0.95</u>	<u>0.84</u>
<u>Small Duct High Velocity System</u>	<u>1.00</u>	<u>Not Applicable</u>	<u>0.85</u>
<u>Ducted Space-Constrained Air Conditioner</u>	<u>0.97</u>	<u>Not Applicable</u>	<u>Not Applicable</u>
<u>Ducted Space-Constrained Heat Pump</u>	<u>0.99</u>	<u>Not Applicable</u>	<u>0.85"</u>

1372 Section 11. Section **15A-3-801** is amended to read:

1373 **15A-3-801. General provisions.**

1374 The following are adopted as amendments to the IEBC and are applicable statewide:

1375 (1) In IEBC, Section 202, the definition for "Approved" is modified by adding the  
 1376 words "or independent third-party licensed engineer or architect and submitted to the building  
 1377 official after the word official."

1378 (2) In Section 202, the following definition is added: "BUILDING OFFICIAL. See  
 1379 Code Official."

1380 [~~2~~] (3) In Section 202, the definition for "code official" is deleted and replaced with

1381 the following:

1382 "CODE OFFICIAL. The officer or other designated authority having jurisdiction  
1383 (AHJ) charged with the administration and enforcement of this code."

1384 ~~[(3)]~~ (4) In Section 202, the definition for existing buildings is deleted and replaced  
1385 with the following:

1386 "EXISTING BUILDING. A building that is not a dangerous building and that was  
1387 either lawfully erected under a prior adopted code, or deemed a legal non-conforming building  
1388 by the code official."

1389 ~~[(4)]~~ (5) In IEBC, Section 302.3 the following is added after the words "code official"  
1390 in the last sentence: "or independent third-party licensed engineer or architect and submitted to  
1391 the building official."

1392 (6) In Section 301.3, the exception is deleted.

1393 ~~[(5) In Section 305.4.2, number 7 is added after number 6 as follows: "7. When a~~  
1394 ~~change of occupancy in a building or portion of a building results in a Group R-2 occupancy,~~  
1395 ~~not less than 20% of the dwelling or sleeping units shall be Type-B dwelling or sleeping units.~~  
1396 ~~These dwelling or sleeping units may be located on any floor of the building provided with an~~  
1397 ~~accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall~~  
1398 ~~be Type-A dwelling units."]~~

1399 ~~[(6)]~~ (7) Section 503.6 is deleted and replaced with the following:

1400 "503.6 Bracing for unreinforced masonry parapets and other appendages upon  
1401 reroofing.

1402 Where the intended alteration requires a permit for reroofing and involves removal of  
1403 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
1404 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
1405 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
1406 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
1407 compliance of such items. Reduced seismic forces are permitted for design purposes."

1408 ~~[(7) In Section 705.1, Exception number 3, the following is added at the end of the~~  
1409 ~~exception:]~~

1410 ~~["This exception does not apply if the existing facility is undergoing a change of~~  
1411 ~~occupancy classification."]~~

1412 (8) Section 706.3.1 is deleted and replaced with the following:

1413 "706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.

1414 Where a permit is issued for reroofing more than 25 percent of the roof area of a

1415 building assigned to Seismic Design Category D, E, or F that has parapets constructed of

1416 unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary,

1417 etc., the work shall include installation of bracing to resist the reduced International Building

1418 Code level seismic forces as specified in Section 303 of this code unless an evaluation

1419 demonstrates compliance of such items."

1420 (9) Section 906.6 is deleted and replaced with the following:

1421 "906.6 Bracing for unreinforced masonry parapets and other appendages upon

1422 reroofing.

1423 Where the intended alteration requires a permit for reroofing and involves removal of

1424 roofing materials from more than 25% of the roof area of a building assigned to Seismic

1425 Design Category D, E, or F that has parapets constructed of unreinforced masonry or

1426 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include

1427 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates

1428 compliance with such items. Reduced seismic forces are permitted for design purposes."

1429 (10) (a) Section 1006.3 is deleted and replaced with the following:

1430 "1006.3 Seismic Loads. Where a change of occupancy results in a building being

1431 assigned to a higher risk category, or when a change of occupancy results in a design occupant

1432 load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of

1433 the International Building Code using full seismic forces."

1434 (b) Section 1006.3, exceptions 1 through 3 remain unchanged.

1435 (c) In Section 1006.3, add a new exception 5 as follows:

1436 " 5. Where the design occupant load increase is less than 25 occupants and the

1437 occupancy category does not change."

1438 (11) In Section [~~1012.7.3~~] 1011.7.3, exception 2 is deleted.

1439 *The following section is affected by a coordination clause at the end of this bill.*

1440 Section 12. Section **15A-5-103** is amended to read:

1441 **15A-5-103. Nationally recognized codes incorporated by reference.**

1442 The following codes are incorporated by reference into the State Fire Code:



1443 (1) the International Fire Code, 2021 edition, excluding appendices, as issued by the  
1444 International Code Council, Inc., except as amended by Part 2, Statewide Amendments and  
1445 Additions to International Fire Code Incorporated as Part of State Fire Code;

1446 (2) National Fire Protection Association, NFPA 1, Chapter 38, Marijuana Growing,  
1447 Processing, and Extraction Facilities, 2018 edition;

1448 (3) National Fire Protection Association, NFPA 54, National Fuel Gas Code, [2021]  
1449 2024 edition; and

1450 (4) National Fire Protection Association, NFPA 58, Liquefied Petroleum Gas Code,  
1451 [~~2023~~] 2024 edition.

1452 Section 13. Section **58-55-102** is amended to read:

1453 **58-55-102. Definitions.**

1454 In addition to the definitions in Section **58-1-102**, as used in this chapter:

1455 (1) (a) "Alarm business" or "alarm company" means a person engaged in the sale,  
1456 installation, maintenance, alteration, repair, replacement, servicing, or monitoring of an alarm  
1457 system, except as provided in Subsection (1)(b).

1458 (b) "Alarm business" or "alarm company" does not include:

1459 (i) a person engaged in the manufacture or sale of alarm systems unless:

1460 (A) that person is also engaged in the installation, maintenance, alteration, repair,  
1461 replacement, servicing, or monitoring of alarm systems;

1462 (B) the manufacture or sale occurs at a location other than a place of business  
1463 established by the person engaged in the manufacture or sale; or

1464 (C) the manufacture or sale involves site visits at the place or intended place of  
1465 installation of an alarm system; or

1466 (ii) an owner of an alarm system, or an employee of the owner of an alarm system who  
1467 is engaged in installation, maintenance, alteration, repair, replacement, servicing, or monitoring  
1468 of the alarm system owned by that owner.

1469 (2) "Alarm company agent":

1470 (a) except as provided in Subsection (2)(b), means any individual employed within this  
1471 state by an alarm business; and

1472 (b) does not include an individual who:

1473 (i) is not engaged in the sale, installation, maintenance, alteration, repair, replacement,

1474 servicing, or monitoring of an alarm system; and

1475 (ii) does not, during the normal course of the individual's employment with an alarm  
1476 business, use or have access to sensitive alarm system information.

1477 (3) "Alarm company officer" means:

1478 (a) a governing person, as defined in Section 48-3a-102, of an alarm company;

1479 (b) an individual appointed as an officer of an alarm company that is a corporation in  
1480 accordance with Section 16-10a-830;

1481 (c) a general partner, as defined in Section 48-2e-102, of an alarm company; or

1482 (d) a partner, as defined in Section 48-1d-102, of an alarm company.

1483 (4) "Alarm company owner" means:

1484 (a) a shareholder, as defined in Section 16-10a-102, who owns directly, or indirectly  
1485 through an entity controlled by the individual, 5% or more of the outstanding shares of an  
1486 alarm company that:

1487 (i) is a corporation; and

1488 (ii) is not publicly listed or traded; or

1489 (b) an individual who owns directly, or indirectly through an entity controlled by the  
1490 individual, 5% or more of the equity of an alarm company that is not a corporation.

1491 (5) "Alarm company proprietor" means the sole proprietor of an alarm company that is  
1492 registered as a sole proprietorship with the Division of Corporations and Commercial Code.

1493 (6) "Alarm company trustee" means an individual with control of or power of  
1494 administration over property held in trust.

1495 (7) (a) "Alarm system" means equipment and devices assembled for the purpose of:

1496 (i) detecting and signaling unauthorized intrusion or entry into or onto certain  
1497 premises; or

1498 (ii) signaling a robbery or attempted robbery on protected premises.

1499 (b) "Alarm system" includes a battery-charged suspended-wire system or fence that is  
1500 part of and interfaces with an alarm system for the purposes of detecting and deterring  
1501 unauthorized intrusion or entry into or onto certain premises.

1502 (8) "Apprentice electrician" means a person licensed under this chapter as an  
1503 apprentice electrician who is learning the electrical trade under the immediate supervision of a  
1504 master electrician, residential master electrician, a journeyman electrician, or a residential

1505 journeyman electrician.

1506 (9) "Apprentice plumber" means a person licensed under this chapter as an apprentice  
1507 plumber who is learning the plumbing trade under the immediate supervision of a master  
1508 plumber, residential master plumber, journeyman plumber, or a residential journeyman  
1509 plumber.

1510 (10) "Approved continuing education" means instruction provided through courses  
1511 under a program established under Subsection 58-55-302.5(2).

1512 (11) (a) "Approved prelicensure course provider" means a provider that is the  
1513 Associated General Contractors of Utah, the Utah Chapter of the Associated Builders and  
1514 Contractors, or the Utah Home Builders Association, and that meets the requirements  
1515 established by rule by the commission with the concurrence of the director, to teach the  
1516 25-hour course described in Subsection 58-55-302(1)(e)(iii).

1517 (b) "Approved prelicensure course provider" may only include a provider that, in  
1518 addition to any other locations, offers the 25-hour course described in Subsection  
1519 58-55-302(1)(e)(iii) at least six times each year in one or more counties other than Salt Lake  
1520 County, Utah County, Davis County, or Weber County.

1521 (12) "Board" means the Electrician Licensing Board, Alarm System Security and  
1522 Licensing Board, or Plumbers Licensing Board created in Section 58-55-201.

1523 (13) "Combustion system" means an assembly consisting of:

1524 (a) piping and components with a means for conveying, either continuously or  
1525 intermittently, natural gas from the outlet of the natural gas provider's meter to the burner of the  
1526 appliance;

1527 (b) the electric control and combustion air supply and venting systems, including air  
1528 ducts; and

1529 (c) components intended to achieve control of quantity, flow, and pressure.

1530 (14) "Commission" means the Construction Services Commission created under  
1531 Section 58-55-103.

1532 (15) "Construction trade" means any trade or occupation involving:

1533 (a) (i) construction, alteration, remodeling, repairing, wrecking or demolition, addition  
1534 to, or improvement of any building, highway, road, railroad, dam, bridge, structure, excavation  
1535 or other project, development, or improvement to other than personal property; and

1536 (ii) constructing, remodeling, or repairing a manufactured home or mobile home as  
1537 defined in Section 15A-1-302; or

1538 (b) installation or repair of a residential or commercial natural gas appliance or  
1539 combustion system.

1540 (16) "Construction trades instructor" means a person licensed under this chapter to  
1541 teach one or more construction trades in both a classroom and project environment, where a  
1542 project is intended for sale to or use by the public and is completed under the direction of the  
1543 instructor, who has no economic interest in the project.

1544 (17) (a) "Contractor" means any person who for compensation other than wages as an  
1545 employee undertakes any work in the construction, plumbing, or electrical trade for which  
1546 licensure is required under this chapter and includes:

1547 (i) a person who builds any structure on the person's own property for the purpose of  
1548 sale or who builds any structure intended for public use on the person's own property;

1549 (ii) any person who represents that the person is a contractor, or will perform a service  
1550 described in this Subsection (17) by advertising on a website or social media, or any other  
1551 means;

1552 (iii) any person engaged as a maintenance person, other than an employee, who  
1553 regularly engages in activities set forth under the definition of "construction trade";

1554 (iv) any person engaged in, or offering to engage in, any construction trade for which  
1555 licensure is required under this chapter; or

1556 (v) a construction manager, construction consultant, construction assistant, or any other  
1557 person who, for a fee:

1558 (A) performs or offers to perform construction consulting;

1559 (B) performs or offers to perform management of construction subcontractors;

1560 (C) provides or offers to provide a list of subcontractors or suppliers; or

1561 (D) provides or offers to provide management or counseling services on a construction  
1562 project.

1563 (b) "Contractor" does not include:

1564 (i) an alarm company or alarm company agent; or

1565 (ii) a material supplier who provides consulting to customers regarding the design and  
1566 installation of the material supplier's products.

1567 (18) (a) "Electrical trade" means the performance of any electrical work involved in the  
1568 installation, construction, alteration, change, repair, removal, or maintenance of facilities,  
1569 buildings, or appendages or appurtenances.

1570 (b) "Electrical trade" does not include:

1571 (i) transporting or handling electrical materials;

1572 (ii) preparing clearance for raceways for wiring;

1573 (iii) work commonly done by unskilled labor on any installations under the exclusive  
1574 control of electrical utilities;

1575 (iv) work involving cable-type wiring that does not pose a shock or fire-initiation  
1576 hazard; or

1577 (v) work involving class two or class three power-limited circuits as defined in the  
1578 National Electrical Code.

1579 (19) "Elevator" means the same as that term is defined in Section [34A-7-202](#), except  
1580 that for purposes of this chapter it does not mean a stair chair, a vertical platform lift, or an  
1581 incline platform lift.

1582 (20) "Elevator contractor" means a sole proprietor, firm, or corporation licensed under  
1583 this chapter that is engaged in the business of erecting, constructing, installing, altering,  
1584 servicing, repairing, or maintaining an elevator.

1585 (21) "Elevator mechanic" means an individual who is licensed under this chapter as an  
1586 elevator mechanic and who is engaged in erecting, constructing, installing, altering, servicing,  
1587 repairing, or maintaining an elevator under the immediate supervision of an elevator contractor.

1588 (22) "Employee" means an individual as defined by the division by rule giving  
1589 consideration to the definition adopted by the Internal Revenue Service and the Department of  
1590 Workforce Services.

1591 (23) "Engage in a construction trade" means to:

1592 (a) engage in, represent oneself to be engaged in, or advertise oneself as being engaged  
1593 in a construction trade; or

1594 (b) use the name "contractor" or "builder" or in any other way lead a reasonable person  
1595 to believe one is or will act as a contractor.

1596 (24) (a) "Financial responsibility" means a demonstration of a current and expected  
1597 future condition of financial solvency evidencing a reasonable expectation to the division and

1598 the board that an applicant or licensee can successfully engage in business as a contractor  
1599 without jeopardy to the public health, safety, and welfare.

1600 (b) Financial responsibility may be determined by an evaluation of the total history  
1601 concerning the licensee or applicant including past, present, and expected condition and record  
1602 of financial solvency and business conduct.

1603 (25) "Gas appliance" means any device that uses natural gas to produce light, heat,  
1604 power, steam, hot water, refrigeration, or air conditioning.

1605 (26) (a) "General building contractor" means a person licensed under this chapter as a  
1606 general building contractor qualified by education, training, experience, and knowledge to  
1607 perform or superintend construction of structures for the support, shelter, and enclosure of  
1608 persons, animals, chattels, or movable property of any kind or any of the components of that  
1609 construction except plumbing, electrical work, mechanical work, work related to the operating  
1610 integrity of an elevator, and manufactured housing installation, for which the general building  
1611 contractor shall employ the services of a contractor licensed in the particular specialty, except  
1612 that a general building contractor engaged in the construction of single-family and multifamily  
1613 residences up to four units may perform the mechanical work and hire a licensed plumber or  
1614 electrician as an employee.

1615 (b) The division may by rule exclude general building contractors from engaging in the  
1616 performance of other construction specialties in which there is represented a substantial risk to  
1617 the public health, safety, and welfare, and for which a license is required unless that general  
1618 building contractor holds a valid license in that specialty classification.

1619 (27) (a) "General electrical contractor" means a person licensed under this chapter as a  
1620 general electrical contractor qualified by education, training, experience, and knowledge to  
1621 perform the fabrication, construction, and installation of generators, transformers, conduits,  
1622 raceways, panels, switch gear, electrical wires, fixtures, appliances, or apparatus that uses  
1623 electrical energy.

1624 (b) The scope of work of a general electrical contractor may be further defined by rules  
1625 made by the commission, with the concurrence of the director, in accordance with Title 63G,  
1626 Chapter 3, Utah Administrative Rulemaking Act.

1627 (28) (a) "General engineering contractor" means a person licensed under this chapter as  
1628 a general engineering contractor qualified by education, training, experience, and knowledge to

- 1629 perform or superintend construction of fixed works or components of fixed works requiring  
1630 specialized engineering knowledge and skill in any of the following:
- 1631 (i) irrigation;
  - 1632 (ii) drainage;
  - 1633 (iii) water power;
  - 1634 (iv) water supply;
  - 1635 (v) flood control;
  - 1636 (vi) an inland waterway;
  - 1637 (vii) a harbor;
  - 1638 (viii) a railroad;
  - 1639 (ix) a highway;
  - 1640 (x) a tunnel;
  - 1641 (xi) an airport;
  - 1642 (xii) an airport runway;
  - 1643 (xiii) a sewer;
  - 1644 (xiv) a bridge;
  - 1645 (xv) a refinery;
  - 1646 (xvi) a pipeline;
  - 1647 (xvii) a chemical plant;
  - 1648 (xviii) an industrial plant;
  - 1649 (xix) a pier;
  - 1650 (xx) a foundation;
  - 1651 (xxi) a power plant; ~~or~~
  - 1652 (xxii) a utility plant or installation[-]; or
  - 1653 (xxiii) underground electric utility conduit.
- 1654 (b) A general engineering contractor may not perform or superintend:
- 1655 (i) construction of a structure built primarily for the support, shelter, and enclosure of  
1656 persons, animals, and chattels; or
  - 1657 (ii) performance of:
    - 1658 (A) plumbing work;
    - 1659 (B) electrical work beyond underground electric utility conduit; or

1660 (C) mechanical work.

1661 (29) (a) "General plumbing contractor" means a person licensed under this chapter as a  
1662 general plumbing contractor qualified by education, training, experience, and knowledge to  
1663 perform the fabrication or installation of material and fixtures to create and maintain sanitary  
1664 conditions in a building by providing permanent means for a supply of safe and pure water, a  
1665 means for the timely and complete removal from the premises of all used or contaminated  
1666 water, fluid and semi-fluid organic wastes and other impurities incidental to life and the  
1667 occupation of such premises, and a safe and adequate supply of gases for lighting, heating, and  
1668 industrial purposes.

1669 (b) The scope of work of a general plumbing contractor may be further defined by rules  
1670 made by the commission, with the concurrence of the director, in accordance with Title 63G,  
1671 Chapter 3, Utah Administrative Rulemaking Act.

1672 (30) "Immediate supervision" means reasonable direction, oversight, inspection, and  
1673 evaluation of the work of a person:

1674 (a) as the division specifies in rule;

1675 (b) by, as applicable, a qualified electrician or plumber;

1676 (c) as part of a planned program of training; and

1677 (d) to ensure that the end result complies with applicable standards.

1678 (31) "Individual" means a natural person.

1679 (32) "Journeyman electrician" means a person licensed under this chapter as a  
1680 journeyman electrician having the qualifications, training, experience, and knowledge to wire,  
1681 install, and repair electrical apparatus and equipment for light, heat, power, and other purposes.

1682 (33) "Journeyman plumber" means a person licensed under this chapter as a  
1683 journeyman plumber having the qualifications, training, experience, and technical knowledge  
1684 to engage in the plumbing trade.

1685 (34) "Master electrician" means a person licensed under this chapter as a master  
1686 electrician having the qualifications, training, experience, and knowledge to properly plan,  
1687 layout, and supervise the wiring, installation, and repair of electrical apparatus and equipment  
1688 for light, heat, power, and other purposes.

1689 (35) "Master plumber" means a person licensed under this chapter as a master plumber  
1690 having the qualifications, training, experience, and knowledge to properly plan and layout



1691 projects and supervise persons in the plumbing trade.

1692 (36) "Person" means a natural person, sole proprietorship, joint venture, corporation,  
1693 limited liability company, association, or organization of any type.

1694 (37) (a) "Plumbing trade" means the performance of any mechanical work pertaining to  
1695 the installation, alteration, change, repair, removal, maintenance, or use in buildings, or within  
1696 three feet beyond the outside walls of buildings, of pipes, fixtures, and fittings for the:

1697 (i) delivery of the water supply;

1698 (ii) discharge of liquid and water carried waste;

1699 (iii) building drainage system within the walls of the building; and

1700 (iv) delivery of gases for lighting, heating, and industrial purposes.

1701 (b) "Plumbing trade" includes work pertaining to the water supply, distribution pipes,  
1702 fixtures and fixture traps, soil, waste and vent pipes, the building drain and roof drains, and the  
1703 safe and adequate supply of gases, together with their devices, appurtenances, and connections  
1704 where installed within the outside walls of the building.

1705 (38) "Ratio of apprentices" means the number of licensed plumber apprentices or  
1706 licensed electrician apprentices that are allowed to be under the immediate supervision of a  
1707 licensed supervisor as established by the provisions of this chapter and by rules made by the  
1708 commission, with the concurrence of the director, in accordance with Title 63G, Chapter 3,  
1709 Utah Administrative Rulemaking Act.

1710 (39) "Residential and small commercial contractor" means a person licensed under this  
1711 chapter as a residential and small commercial contractor qualified by education, training,  
1712 experience, and knowledge to perform or superintend the construction of single-family  
1713 residences, multifamily residences up to four units, and commercial construction of not more  
1714 than three stories above ground and not more than 20,000 square feet, or any of the components  
1715 of that construction except plumbing, electrical work, mechanical work, and manufactured  
1716 housing installation, for which the residential and small commercial contractor shall employ  
1717 the services of a contractor licensed in the particular specialty, except that a residential and  
1718 small commercial contractor engaged in the construction of single-family and multifamily  
1719 residences up to four units may perform the mechanical work and hire a licensed plumber or  
1720 electrician as an employee.

1721 (40) "Residential building," as it relates to the license classification of residential

1722 journeyman plumber and residential master plumber, means a single or multiple family  
1723 dwelling of up to four units.

1724 (41) (a) "Residential electrical contractor" means a person licensed under this chapter  
1725 as a residential electrical contractor qualified by education, training, experience, and  
1726 knowledge to perform the fabrication, construction, and installation of services, disconnecting  
1727 means, grounding devices, panels, conductors, load centers, lighting and plug circuits,  
1728 appliances, and fixtures in a residential unit.

1729 (b) The scope of work of a residential electrical contractor may be further defined by  
1730 rules made by the commission, with the concurrence of the director, in accordance with Title  
1731 63G, Chapter 3, Utah Administrative Rulemaking Act.

1732 (42) "Residential journeyman electrician" means a person licensed under this chapter  
1733 as a residential journeyman electrician having the qualifications, training, experience, and  
1734 knowledge to wire, install, and repair electrical apparatus and equipment for light, heat, power,  
1735 and other purposes on buildings using primarily nonmetallic sheath cable.

1736 (43) "Residential journeyman plumber" means a person licensed under this chapter as a  
1737 residential journeyman plumber having the qualifications, training, experience, and knowledge  
1738 to engage in the plumbing trade as limited to the plumbing of residential buildings.

1739 (44) "Residential master electrician" means a person licensed under this chapter as a  
1740 residential master electrician having the qualifications, training, experience, and knowledge to  
1741 properly plan, layout, and supervise the wiring, installation, and repair of electrical apparatus  
1742 and equipment for light, heat, power, and other purposes on residential projects.

1743 (45) "Residential master plumber" means a person licensed under this chapter as a  
1744 residential master plumber having the qualifications, training, experience, and knowledge to  
1745 properly plan and layout projects and supervise persons in the plumbing trade as limited to the  
1746 plumbing of residential buildings.

1747 (46) (a) "Residential plumbing contractor" means a person licensed under this chapter  
1748 as a residential plumbing contractor qualified by education, training, experience, and  
1749 knowledge to perform the fabrication or installation of material and fixtures to create and  
1750 maintain sanitary conditions in residential buildings by providing permanent means for a  
1751 supply of safe and pure water, a means for the timely and complete removal from the premises  
1752 of all used or contaminated water, fluid and semi-fluid organic wastes and other impurities

1753 incidental to life and the occupation of such premises, and a safe and adequate supply of gases  
1754 for lighting, heating, and residential purposes.

1755 (b) The scope of work of a residential plumbing contractor may be further defined by  
1756 rules made by the commission, with the concurrence of the director, in accordance with Title  
1757 63G, Chapter 3, Utah Administrative Rulemaking Act.

1758 (47) "Residential project," as it relates to an electrician or electrical contractor, means  
1759 buildings primarily wired with nonmetallic sheathed cable, in accordance with standard rules  
1760 and regulations governing this work, including the National Electrical Code, and in which the  
1761 voltage does not exceed 250 volts line to line and 125 volts to ground.

1762 (48) "Responsible management personnel" means:

1763 (a) a qualifying agent;

1764 (b) an operations manager; or

1765 (c) a site manager.

1766 (49) "Sensitive alarm system information" means:

1767 (a) a pass code or other code used in the operation of an alarm system;

1768 (b) information on the location of alarm system components at the premises of a  
1769 customer of the alarm business providing the alarm system;

1770 (c) information that would allow the circumvention, bypass, deactivation, or other  
1771 compromise of an alarm system of a customer of the alarm business providing the alarm  
1772 system; and

1773 (d) any other similar information that the division by rule determines to be information  
1774 that an individual employed by an alarm business should use or have access to only if the  
1775 individual is licensed as provided in this chapter.

1776 (50) (a) "Specialty contractor" means a person licensed under this chapter under a  
1777 specialty contractor classification established by rule, who is qualified by education, training,  
1778 experience, and knowledge to perform those construction trades and crafts requiring  
1779 specialized skill, the regulation of which are determined by the division to be in the best  
1780 interest of the public health, safety, and welfare.

1781 (b) A specialty contractor may perform work in crafts or trades other than those in  
1782 which the specialty contractor is licensed if they are incidental to the performance of the  
1783 specialty contractor's licensed craft or trade.

1784 (51) "Unincorporated entity" means an entity that is not:

1785 (a) an individual;

1786 (b) a corporation; or

1787 (c) publicly traded.

1788 (52) "Unlawful conduct" means the same as that term is defined in Sections [58-1-501](#)  
1789 and [58-55-501](#).

1790 (53) "Unprofessional conduct" means the same as that term is defined in Sections  
1791 [58-1-501](#) and [58-55-502](#) and as may be further defined by rule.

1792 (54) "Wages" means amounts due to an employee for labor or services whether the  
1793 amount is fixed or ascertained on a time, task, piece, commission, or other basis for calculating  
1794 the amount.

1795 Section 14. **Effective date.**

1796 This bill takes effect on July 1, 2024.

1797 Section 15. **Coordinating H.B. 518 with H.B. 64.**

1798 If H.B. 518, State Construction Code Modifications, and H.B. 64, State Construction  
1799 and Fire Codes Amendments, both pass and become law, the Legislature intends that, on July  
1800 1, 2024, the amendments to:

1801 (1) Section [15A-3-203](#) in H.B. 518 supersede the amendments to Section [15A-3-203](#) in  
1802 H.B. 64;

1803 (2) Section [15A-3-205](#) in H.B. 518 supersede the amendments to Section [15A-3-205](#) in  
1804 H.B. 64; and

1805 (3) Section [15A-5-103](#) in H.B. 518 supersede the amendments to Section [15A-5-103](#) in  
1806 H.B. 64.