

1                                   **STATE CONSTRUCTION CODE MODIFICATIONS**  
2                                   2024 GENERAL SESSION  
3                                   STATE OF UTAH  
4                                   **Chief Sponsor: Thomas W. Peterson**  
5                                   Senate Sponsor: Curtis S. Bramble

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8 **LONG TITLE**

9 **General Description:**

10       This bill modifies the State Construction Code.

11 **Highlighted Provisions:**

12       This bill:

- 13       ▸ amends the State Construction Code to:
  - 14           • align with updated standards in the International Residential Code (IRC); and
  - 15           • modify provisions of the IRC; and
- 16       ▸ makes technical changes.

17 **Money Appropriated in this Bill:**

18       None

19 **Other Special Clauses:**

20       This bill provides a special effective date.

21       This bill provides a coordination clause.

22 **Utah Code Sections Affected:**

23 AMENDS:

- 24       **15A-1-104**, as enacted by Laws of Utah 2014, Chapter 197
- 25       **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
- 15A-3-204**, as last amended by Laws of Utah 2023, Chapter 209
- 15A-3-205**, as last amended by Laws of Utah 2023, Chapter 209
- 15A-3-206**, as last amended by Laws of Utah 2023, Chapter 209
- 15A-3-401**, as last amended by Laws of Utah 2019, Chapter 20
- 15A-3-701**, as last amended by Laws of Utah 2023, Chapter 209

29 **15A-3-801**, as last amended by Laws of Utah 2023, Chapter 209

30 **15A-5-103**, as last amended by Laws of Utah 2023, Chapter 95

31 **58-55-102**, as last amended by Laws of Utah 2023, Chapter 223

32 **Utah Code Sections affected by Coordination Clause:**

33 **15A-3-203**, as last amended by Laws of Utah 2023, Chapter 209

34 **15A-3-205**, 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

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

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

39 **15A-1-104 . Permit approval required -- Certificate of occupancy valid.**

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

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

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

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

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

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

49 [~~(3) If a compliance agency or a representative of a compliance agency issues a certificate  
50 of occupancy, the compliance agency may not withdraw the certificate of occupancy or  
51 exert additional jurisdiction over the elements of the project for which the certificate was  
52 issued unless additional changes or modifications requiring a building permit are made  
53 to elements of the project after the certificate was issued.~~]

54 (1) As used in this section:

55 (a) "Completed noncompliant structure" means a structure that was constructed and  
56 completed without:

57 (i) obtaining a building permit;

58 (ii) passing inspections; or

59 (iii) obtaining a certificate of occupancy as required by Section 15A-1-204.

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

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

62 (2) A compliance agency for a political subdivision may not reject a permit, or withhold

- 63 approval of a project whenever approval is required, for failure to comply with the  
 64 applicable provisions of this title unless the compliance agency:  
 65 (a) cites with specificity the applicable provision with which the project has failed to  
 66 comply; and  
 67 (b) describes how the project has failed to comply.  
 68 (3) A municipality may not withhold a permit or project approval for a project because of a  
 69 completed noncompliant structure on the same property provided that the completed  
 70 noncompliant structure:  
 71 (a) has been completed for five years or more;  
 72 (b) does not pose a health, life, or safety concern;  
 73 (c) is unrelated to, independent from, and not affected by the project; and  
 74 (d) is outside the scope of work under the permit for the project.  
 75 (4) A municipality may require additional permitting, engineering, or inspections for a  
 76 completed noncompliant structure if it:  
 77 (a) has been completed for ten years or less; or  
 78 (b) poses a health, life, or safety concern.  
 79 (5) If a compliance agency or a representative of a compliance agency issues a certificate of  
 80 occupancy, the compliance agency may not withdraw the certificate of occupancy or  
 81 exert additional jurisdiction over the elements of the project for which the certificate was  
 82 issued unless additional changes or modifications requiring a building permit are made  
 83 to elements of the project after the certificate was issued.

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

85 **15A-2-103 . Specific editions adopted of construction code of a nationally**  
 86 **recognized code authority.**

- 87 (1) Subject to the other provisions of this part, the following construction codes are  
 88 incorporated by reference, and together with the amendments specified in Chapter 3,  
 89 Statewide Amendments Incorporated as Part of State Construction Code, and Chapter 4,  
 90 Local Amendments Incorporated as Part of State Construction Code, are the  
 91 construction standards to be applied to building construction, alteration, remodeling, and  
 92 repair, and in the regulation of building construction, alteration, remodeling, and repair  
 93 in the state:  
 94 (a) the 2021 edition of the International Building Code, including Appendices C and J,  
 95 issued by the International Code Council;  
 96 (b) [~~except as provided in Subsection (1)(c),~~]the 2021 edition of the International

97 Residential Code, issued by the International Code Council;  
 98 ~~[(e) the residential provisions of Chapter 11, Energy Efficiency, of the 2015 edition of~~  
 99 ~~the International Residential Code, issued by the International Code Council;]~~  
 100 ~~[(d)]~~ (c) Appendix AQ of the 2021 edition of the International Residential Code, issued  
 101 by the International Code Council;  
 102 ~~[(e)]~~ (d) the 2021 edition of the International Plumbing Code, issued by the International  
 103 Code Council;  
 104 ~~[(f)]~~ (e) the 2021 edition of the International Mechanical Code, issued by the  
 105 International Code Council;  
 106 ~~[(g)]~~ (f) the 2021 edition of the International Fuel Gas Code, issued by the International  
 107 Code Council;  
 108 ~~[(h)]~~ (g) the 2020 edition of the National Electrical Code, issued by the National Fire  
 109 Protection Association;  
 110 ~~[(i) the residential provisions of the 2015 edition of the International Energy~~  
 111 ~~Conservation Code, issued by the International Code Council;]~~  
 112 ~~[(j)]~~ (h) ~~[the commercial provisions of ]~~the 2021 edition of the International Energy  
 113 Conservation Code, issued by the International Code Council;  
 114 ~~[(k)]~~ (i) the 2021 edition of the International Existing Building Code, issued by the  
 115 International Code Council;  
 116 ~~[(l)]~~ (j) subject to Subsection 15A-2-104(2), the HUD Code;  
 117 ~~[(m)]~~ (k) subject to Subsection 15A-2-104(1), Appendix AE of the 2021 edition of the  
 118 International Residential Code, issued by the International Code Council;  
 119 ~~[(n)]~~ (l) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model  
 120 Manufactured Home Installation Standard, issued by the National Fire Protection  
 121 Association;  
 122 ~~[(o)]~~ (m) subject to Subsection (3), for standards and guidelines pertaining to plaster on a  
 123 historic property, as defined in Section 9-8a-302, the U.S. Department of the Interior  
 124 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic  
 125 Buildings; and  
 126 ~~[(p)]~~ (n) the residential provisions of the 2021 edition of the International Swimming  
 127 Pool and Spa Code, issued by the International Code Council.  
 128 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire Control,  
 129 the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,  
 130 issued by the International Code Council, with the alternatives or amendments approved

131 by the Utah Division of Forestry, Fire, and State Lands, as a construction code that may  
 132 be adopted by a local compliance agency by local ordinance or other similar action as a  
 133 local amendment to the codes listed in this section.

- 134 (3) The standards and guidelines described in Subsection [~~(1)(e)~~] (1)(n) apply only if:  
 135 (a) the owner of the historic property receives a government tax subsidy based on the  
 136 property's status as a historic property;  
 137 (b) the historic property is wholly or partially funded by public money; or  
 138 (c) the historic property is owned by a government entity.

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

140 **15A-3-105 . Amendments to Chapters 10 through 12 of IBC.**

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

142 "Blended assisted living facilities shall comply with Section 1010.2.14.1."

143 (2) A new IBC Section 1010.2.14.1 is added as follows: "1010.2.14.1 Blended assisted

144 living facilities. In occupancy Group I-1, Condition 2 or Group I-2, a Type-II assisted  
 145 living facility licensed by the Department of Health and Human Services for residents  
 146 with Alzheimer's or dementia, and having a controlled egress locking system to prevent  
 147 operation from the egress side shall be permitted to also house residents without a  
 148 clinical need for their containment where all of the following provisions are met:

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

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

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

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

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

159 Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group  
 160 U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual  
 161 dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches  
 162 (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum  
 163 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum  
 164 winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1

165 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid  
166 risers where the tread depth is less than 10 inches (254 mm)."

167 ~~[(2)]~~ (4) In IBC, Section 1011.11, a new exception 6 is added as follows: " 6. In  
168 occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group  
169 U, which are accessory to an occupancy in Group R-3, as applicable in Section 101.2,  
170 handrails shall be provided on at least one side of stairways consisting of four or more  
171 risers."

172 ~~[(3)]~~ (5) IBC, Section 1025, is deleted.

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

174 **15A-3-202 . Amendments to Chapters 1 through 5 of IRC.**

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

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

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

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

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

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

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

196 ~~[(4)]~~ (5) In IRC, Section R108.3, the following sentence is added at the end of the section:

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

198 ~~[(5)]~~ (6) IRC, Section 109.1.5, is deleted and replaced with the following: "R109.1.5

199 Weather-resistant exterior wall envelope inspections. An inspection shall be made of  
200 the weather-resistant exterior wall envelope as required by Section R703.1 and flashings  
201 as required by Section R703.4 to prevent water from entering the weather-resistive  
202 barrier."

203 [(6)] (7) In IRC, Section R202, the following definition is added: "ACCESSORY  
204 DWELLING UNIT: A habitable living unit created within the existing footprint of a  
205 primary owner-occupied single-family dwelling."

206 [(7)] (8) In IRC, Section R202, the definition for "Approved" is modified by adding the  
207 words "or independent third-party licensed engineer or architect and submitted to the  
208 building official" after the word "official."

209 [(8)] (9) In IRC, Section R202, the definition for "Approved Agency" is modified by  
210 replacing the word "and" with "or."

211 [(9)] (10) In IRC, Section 202, the definition for "Approved Source" is modified by adding  
212 the words "or licensed engineer or architect" after the word "official."

213 [(10)] (11) In IRC, Section R202, the following definition is added: "CERTIFIED  
214 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown  
215 competence to test Backflow prevention assemblies to the satisfaction of the authority  
216 having jurisdiction under Utah Code, Subsection 19-4-104(4)."

217 [(11)] (12) In IRC, Section R202, the definition of "Cross Connection" is deleted and  
218 replaced with the following: "CROSS CONNECTION. Any physical connection or  
219 potential connection or arrangement between two otherwise separate piping systems,  
220 one of which contains potable water and the other either water of unknown or  
221 questionable safety or steam, gas, or chemical, whereby there exists the possibility for  
222 flow from one system to the other, with the direction of flow depending on the pressure  
223 differential between the two systems (see "Backflow, Water Distribution")."

224 [(12)] (13) In IRC, Section 202, the following definition is added: "DUAL SOURCE  
225 CONNECTION. A pipe that is installed so that either the nonpotable (i.e. secondary)  
226 irrigation water or the potable water is connected to a pressurized irrigation system at  
227 one time, but not both at the same time; or a pipe that is installed so that either the  
228 potable water or private well water is connected to a residence at one time, but not both  
229 at the same time. The potable water supply line shall be protected by a reduced pressure  
230 backflow preventer."

231 [(13)] (14) In IRC, Section 202, the following definition is added: "ENERGY STORAGE  
232 SYSTEM (ESS). One or more devices, assembled together, that are capable of storing

233 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 after the  
 235 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  
 238 operation of the sewer treatment facility."

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



263	Monticello	San Juan	67	7064
264	Morgan	Morgan	52	5062
265	Nephi	Juab	39	5131
266	Ogden	Weber	37	4334
267	Panguitch	Garfield	41	6630
268	Parowan	Iron	32	6007
269	Price	Carbon	31	5558
270	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 Utah  
 279 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,  
 281 B., Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University  
 282 Civil and Environmental Engineering Faculty Publications, Paper 3589,  
 283 <http://utahsnowload.usu.edu/>, for 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  
288 grade."

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

293 [~~(20)~~] (21) In IRC, Section R302.5.1, the last sentence is deleted.

294 [~~(21)~~] (22) IRC, Section R302.13, is deleted.

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

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

300 [~~(23)~~] (25) In IRC, Section R310.7, in the exception, the words "or accessory dwelling  
301 units" are added after the words "sleeping rooms".

302 [~~(24)~~] (26) IRC, Sections R311.7.45 through R311.7.5.3, are deleted and replaced with the  
303 following: "R311.7.45.1 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser  
304 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading  
305 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not  
306 exceed the smallest by more than 3/8 inch (9.5 mm).

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

316 R311.7.5.3 Nosing. The radius of curvature at the leading edge of the tread shall be no  
317 greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than  
318 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
319 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)  
320 between two stories, including the nosing at the level of floors and landings. Beveling of

321 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
322 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51  
323 rad) from the vertical. Open risers are permitted, provided that the opening between treads  
324 does not permit the passage of a 4-inch diameter (102 mm) sphere.

325 Exceptions.

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

327 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches  
328 (762 mm) or less."

329 [~~25~~] (27) IRC, Section R312.2, is deleted.

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

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

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

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

340 [~~30~~] (32) A new IRC, Section R328.12, is added as follows:

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

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

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

355 [(33)] (35) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and  
356 Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches  
357 (816 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate  
358 section located not less than 4 inches (102 mm) from each end of each plate section at  
359 interior bearing walls, interior braced wall lines, and at all exterior walls."

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

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

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

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

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

373 **15A-3-203 . Amendments to Chapters 6 through 15 of IRC.**

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

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

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

388 (4) In IRC, Section N1101.10.3 (R303.1.3) the following changes are made:

- 389 (a) The following is added at the end of the first sentence "or EN  
 390 14351-1:2006+A1:2010."
- 391 (b) The word "accredited" is replaced with "approved" in the third sentence.
- 392 (c) The following sentence is added after the third sentence: "A conversion factor of  
 393 5.678 shall be used to convert from U values expressed in SI units:  $()/53678=$ ."
- 394 (d) After "NFRC 200" the following words are added: "or EN 14351-1:2006+A1:2010,"  
 395 and in the sentence the word "accredited" is replaced with the word "approved."
- 396 (e) The following new sentence shall be inserted immediately prior to the last sentence:  
 397 "Total Energy Transmittance values may be substituted for SHGC, and Luminous  
 398 Transmission values may be substituted for VT."
- 399 [~~(3)~~] (5) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is deleted. [(4)  
 400 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 code"; (b)~~  
 404 ~~on or after January 1, 2019, and before January 1, 2021, "4 percent better than code"; and~~  
 405 ~~(c) after January 1, 2021, "5 percent better than code.""] (5) In IRC, Table N1102.2  
 406 (R402.1.2), in the column titled MASS WALL R-VALUE, a new footnote j is added as  
 407 follows:  
 408 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5  
 409 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a  
 410 .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE  
 411 (oil), and all other component requirements are met.""]~~
- 412 (6) In IRC, Section N1101.13 (R401.2), in the first sentence, the words "Section  
 413 N1101.13.5 and" are deleted.
- 414 (7) In IRC, Section N1101.13.5 (R401.2.5) is deleted.
- 415 (8) In IRC, Section N1101.14 (R401.3) Number 7, the words "and the compliance path  
 416 used" are deleted.
- 417 (9) In IRC, Table N1102.1.2 (R402.1.2):  
 418 (a) in the column titled Fenestration U-Factor the following changes are made:  
 419 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;  
 420 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
 421 0.32; and  
 422 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;

- 423 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in  
424 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;
- 425 (c) in the column titled "Ceiling U-Factor" the following changes are made:  
426 (i) in the row titled "Climate Zone 3" delete 0.026 and replace it with 0.030;  
427 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.024 and replace it with  
428 0.026; and  
429 (iii) in the row titled "Climate Zone 6" delete 0.024 and replace it with 0.026;
- 430 (d) in the column titled "Wood Frame Wall U Factor", the following changes are made:  
431 (i) in the row titled "Climate Zone 3" delete 0.060 and replace it with 0.060;  
432 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.045 and replace it with  
433 0.060; and  
434 (iii) in the row titled "Climate Zone 6" delete 0.045 and replace it with 0.060;
- 435 (e) in the column titled "Basement Wall U-Factor" the following changes are made:  
436 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.050 and replace it with  
437 0.075; and  
438 (ii) in the row titled "Climate Zone 6" delete 0.50 and replace it with 0.065; and
- 439 (f) in the column titled "Crawl Space Wall U-Factor" the following changes are made:  
440 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.055 and replace it with  
441 0.078; and  
442 (ii) in the row titled "Climate Zone 6" delete 0.55 and replace it with 0.065.
- 443 [(6)] (10) In IRC, Table N1102.1.3 (R402.1.3), the following changes are made:  
444 (a) in the column titled "Wood Frame Walls R-Value" a new footnote indicator "j" is  
445 added and at the bottom of the footnotes the following footnote "j" is added: "j. In  
446 climate zone 3B and 5B, an R-15, and in climate zone 6, an R-20 shall be acceptable  
447 where air-impermeable insulation is installed in the cavity space, exterior continuous  
448 insulation, or some combination thereof; and the tested house air leakage is a  
449 maximum of 2.0 ACH50"; and
- 450 (b) add a new footnote "k" as follows: "k. Log walls complying with ICC400 and with a  
451 minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5  
452 through 8 when overall window glazing has 0.30 U-factor or lower, minimum  
453 heating equipment efficiency is for gas 95 AFUE, or for oil, 84 AFUE, and all other  
454 components requirements are met."
- 455 (11) In IRC, Table N1102.1.3 (R402.1.3) the following changes are made:  
456 (a) in the column titled "Fenestration U-Factor" the following changes are made:

- 457 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;  
458 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with  
459 0.32; and  
460 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;  
461 (b) in the column titled "Glazed Fenestration SHGC" the following change is made: in  
462 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;  
463 (c) in the Column R-Value the following changes are made:  
464 (i) in the row titled "Climate Zone 3" delete 49 and replace it with 38;  
465 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 60 and replace it with 49;  
466 and  
467 (iii) in the row titled "Climate Zone 6" delete 60 and replace it with 49;  
468 (d) in the Column titled "Wood Frame Wall R-Value" the following changes are made:  
469 (i) in the row titled "Climate Zone 3" delete all values and replace with 20+Oci or  
470 13+5ci or 015ci;  
471 (ii) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
472 21+Oci or 15+5ci or 0+15ci; and  
473 (iii) in the row titled "Climate Zone 6" delete all values and replace with 21+Oci or  
474 15+5ci or 0+15ci;  
475 (e) in the column titled "Basement Wall R Value" the following changes are made:  
476 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
477 15+Oci or 0+11ci or 11+5ci; and  
478 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or  
479 0+13ci or 11+5ci;  
480 (f) in the column titled "Slab R Value and Depth" the following changes are made:  
481 (i) in the row titled "Climate Zone 3" delete 10ci. 2 ft and replace it with NR; and  
482 (ii) in the row titled "Climate Zone 5 & Marine 4" delete 4 ft and replace it with 2 ft;  
483 and  
484 (g) in the column titled "Crawl Space Wall R-Value" the following changes are made:  
485 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with  
486 15+Oci or 0+11ci or 11+5ci; and  
487 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or  
488 0+13ci or 0+11+5ci.  
489 (12) In IRC, a new subsection N1102.1.5.1 (R402.1.5.1) is added as follows: "1102.1.5.1  
490 (R402.1.5.1) RESCheck 2012 Utah Energy Conservation Code. Compliance with

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

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

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

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

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

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

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

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

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

517 ~~(7)~~ (14) In IRC, Section N1102.2.9.1 (R402.2.9.1) the numeral (i) is added before the  
 518 words "cut at a 45 degree" and the following is added after the words "exterior wall": "or  
 519 (ii) lowered from top of slab 4" when a 4" thermal break material such as, but not  
 520 limited to, felt or asphalt impregnated fiber board, with a minimum thickness of 1/4" is  
 521 installed at the upper 4" of slab".

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

524 ~~(8)~~ (16) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and



525 replaced with the following: "Where allowed by the code official, the builder may  
 526 certify compliance to components criteria for items which may not be inspected during  
 527 regularly scheduled inspections."

528 ~~[(9)]~~ (17) In IRC, Table N1102.4.1.1 (R402.4.1.1) in the column titled "COMPONENT, the  
 529 following changes are made:

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

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

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

536 (a) In the ~~[first]~~ fourth sentence~~[:]~~, the word "third" is deleted.

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

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

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

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

545 ~~[(d) The following sentence is inserted after the third sentence:]~~ added after the  
 546 fourth sentence: "The following parties shall be approved to conduct testing:

547 Parties certified by BPI or RESNET, or licensed contractors who have completed  
 548 training provided by Blower Door Test equipment manufacturers or other  
 549 comparable training."

550 ~~[(e) In the third sentence, the word "third" is deleted.]~~

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

552 ~~[(10)]~~ (19) ~~[In] IRC, Section N1103.3.3 (R403.3.3), [the exception for duct air leakage~~  
 553 ~~testing is deleted and replaced with the following:]~~ is deleted.

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

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

558 ~~[(b) on or after January 1, 2019, and before January 1, 2021, with the following:~~

559 "Exception: The duct air leakage test is not required for systems with all air handlers and  
 560 at least 75% of all ducts (measured by length) located entirely within the building  
 561 thermal envelope."; and]

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

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

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

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

572 [(b) in Subsection 2:]

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

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

577 [(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is  
 578 changed to 169.9.]

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

580 [(13)] (21) In IRC, Section N1103.3.5 (R403.3.5), the [words "or plenums" are deleted.] the  
 581 following changes are made:

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

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

587 (i) Parties certified by BPT or RESNET;

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

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

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

- 593 (a) in Subsection 1:
- 594 (i) the number 4.0 is changed to 6.0;
- 595 (ii) the number 113.3 is changed to 170;
- 596 (iii) the number 3.0 is changed to 5.0; and
- 597 (iv) the number 85 is changed to 141;

- 598 (b) in Subsection 2:
- 599 (i) the number 4.0 is changed to 5.0; and
- 600 (ii) the number 113.3 is changed to 141; and

601 (c) Subsection 3 is deleted.

602 (23) In IRC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.

603 (24) In IRC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added at the  
 604 beginning of the first sentence.

605 (25) In IRC, Section N1103.5.2 (R403.5.2) the following change is made, Subsections 5  
 606 and 6 are deleted and Subsection 7 is renumbered to 5.

607 [(15)] (26) IRC, Section [N1103.6.1 (R403.6.1)] N1103.6.2 (R403.6.2), is deleted and replaced  
 608 with the following: ["N1103.6.1 (R403.6.1)] "N1103.6.2 (R403.6.2) Whole-house mechanical  
 609 ventilation system fan efficacy. Fans used to provide whole-house mechanical ventilation shall  
 610 meet the efficacy requirements of Table [N1103.6.1 (R403.6.1)] N1103.6.2 (R403.6.2).

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

614 [(16)] (27) In IRC, Section [N1103.6.1 (R403.6.1);] N1103.6.2 (R403.6.2), the table is deleted  
 615 and replaced with the following:

616 "TABLE [N1103.6.1 (R403.6.1)] N1103.6.2 (R403.6.2)",

617 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"

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

625 "TABLE N1106.4 (R406.4)

626 MAXIMUM ENERGY RATING INDEX

CLIMATE ZONE	ENERGY RATING INDEX
3	65
5	69
6	68"

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

632 [~~(18)~~] (29) In IRC, Section N1103.7 (R403.7) the word "approved" is deleted in the first  
 633 sentence and the following is added after the word "methodologies[-]"[-] : "complying  
 634 with N1103.7.1 (R403.7.1)".

635 [~~(19)~~] (30) A new IRC, Section N1103.7.1 (R403.7.1) is added as follows: "N1103.7.1  
 636 Qualifications. An individual performing load calculations shall be qualified by completing  
 637 HVAC training from one of the following:

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

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

645 [~~(21)~~] (31) In IRC, Section N1104.1 (R404.1), the word "All" is replaced with "Not less  
 646 than 90 percent of the lamps in".

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

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

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

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

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

654 (36) In IRC, Section N1106.3 (R406.3) "Building thermal envelope" is deleted, and  
 655 replaced with "Building thermal envelope and on-site renewables. The proposed total  
 656 building thermal envelope UA, which is the sum of U-factor times assembly area, shall

- 657 be less than or equal to the building thermal envelope UA using the prescriptive  
658 U-factors from Table N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4.  
659 The area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through  
660 3 shall be:  $0.30 \times U_{A \text{ Proposed design}} = 1.15 \times U_{A \text{ Prescriptive reference design}}$  (Equation  
661 11-4)."
- 662 (37) In IRC, Section N1106.3.1 (R406.3.1) is deleted.
- 663 (38) In IRC, Section N1106.3.2 (R403.3.2) is deleted.
- 664 (39) In IRC, Section N1106.4 (R406.4) the following changes are made:
- 665 (a) In the first sentence, the words "in accordance with Equation 11-5" are deleted and  
666 replaced with: "permitted to be calculated using the minimum total air exchange rate  
667 for the rated home ( $Q_{tot}$ ) and for the index adjustment factor in accordance with  
668 Equation 11.5.";
- 669 (b) In equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:  
670 " $Q_{tot}$ "; and
- 671 (c) In the last sentence the number "5" is deleted and replaced with "15".
- 672 (40) In IRC N1106.5, in the column titled "ENERGY RATING INDEX" of Table R406.5,  
673 the following changes are made:
- 674 (a) In the row for "Climate Zone 3", "51" is deleted and replaced with "65";
- 675 (b) In the row for "Climate Zone 5", "55" is deleted and replaced with "69"; and
- 676 (c) In the row for "Climate Zone 6", "54" is deleted and replaced with "68".
- 677 (41) In IRC, Section N1108 (R408) is deleted.
- 678 (42) In IRC, Section M1401.3 the word "approved" is deleted in the first sentence and the  
679 following is added after the word methodologies ", complying with M1401.3.1".
- 680 [(22)] (43) A new IRC, Section M1401.3.1, is added as follows: "M1401.3.1 Qualifications. An  
681 individual performing load calculations shall be qualified by completing HVAC training from  
682 one of the following:
- 683 1. HVAC load calculation education from ACCA;
- 684 2. A recognized educational institution;
- 685 3. HVAC equipment manufacturer's training; or
- 686 4. Other recognized industry certification."
- 687 [(23)] (44) In IRC, Section M1402.1, the following is added at the end of the second  
688 sentence: "or UL/CSA 60335-2-40."
- 689 [(24)] (45) In IRC, Section M1403.1, the characters "/ANCE" are deleted.
- 690 [(25)] (46) IRC, Section M1411.9, is deleted.

691 ~~[(26)]~~ (47) In IRC, Section M1412.1, the characters "/ANCE" are deleted.

692 ~~[(27)]~~ (48) In IRC, Section M1413.1, the characters "/ANCE" are deleted.

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

694 **15A-3-204 . Amendments to Chapters 16 through 25 of IRC.**

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

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

699 (2) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection. Fuel gas  
700 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  
702 falling, moving, or migrating ice and snow. If an added structure is used, it must  
703 provide access for service and comply with the IBC or the IRC."

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

720 (b) Contractor shall take all precautions necessary to limit the pressure within the plastic  
721 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 trapped  
 727 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 Testing.  
 732 Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure  
 733 detector fire protection, double check detector fire protections, and spill-resistant  
 734 vacuum breaker backflow preventer assemblies shall be tested at the time of installation,  
 735 immediately after repairs or relocation and at least annually. The Utah Cross-Connection  
 736 Control Commission has adopted the field test procedures published by the Manual of  
 737 Cross Connection Control, Tenth Edition. This manual is published by the University of  
 738 Southern California's Foundation for Cross-Connection Control and Hydraulic Research.  
 739 Test gauges 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 General. The  
 744 water-distribution system of any building or premises where plumbing fixtures are installed  
 745 shall be connected to a public water supply. Where a potable public water supply is not  
 746 available, individual sources of potable water supply shall be utilized provided that the source  
 747 has been developed in accordance with Utah Code Sections 73-3-1, 73-3-3, and 73-3-25, as  
 748 administered by the Department of Natural Resources, Division of Water Rights. In addition,  
 749 the quality of the water shall be approved by the local health department having jurisdiction.  
 750 The source shall supply sufficient quantity of water to comply with the requirements of this  
 751 chapter.

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

757 Exception: Sanitary drainage piping and systems that convey only the discharge from  
 758 bathtubs, showers, lavatories, clothes washers, and laundry trays shall not be required to

- 759 connect to a public sewer or to a private sewage disposal system provided that the piping or  
760 systems are connected to a system in accordance with Sections P2910 or P2911."
- 761 (2) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water supply.  
762 Where a potable public water supply is not available, individual sources of potable water  
763 supply shall be utilized, provided that the source has been developed in accordance with  
764 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural  
765 Resources, Division of Water Rights. In addition, the quality of the water shall be  
766 approved by the local health department having jurisdiction."
- 767 (3) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required. Every  
768 building in which plumbing fixtures are installed and all premises having drainage piping shall  
769 be connected to a public sewer where the sewer is accessible and is within 300 feet of the  
770 property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage  
771 disposal system in accordance with Utah Administrative Code,  
772 Chapter 4, Rule R317, as administered by the Department of Environmental Quality, Division  
773 of Water Quality."
- 774 (4) In IRC, Section P2705, Item 5, the words "lavatory" and "lavatories" are deleted.
- 775 (5) In IRC, Section P2705, a new Item 9 is added as follows: "9. Lavatories. A lavatory  
776 shall not be set closer than 12 inches from its center to any side wall or partition. A  
777 lavatory shall be provided with a clearance of 24 inches in width and 21 inches in depth  
778 in front of the lavatory to any side wall, partition, or obstruction." Remaining item  
779 numbers are renumbered accordingly.
- 780 (6) In IRC, Section P2801.6.2, the following is added at the end of the section: "When  
781 permitted by the code official, the pan drain may be directly connected to a soil stack,  
782 waste stack, or branch drain. The pan drain shall be individually trapped and vented as  
783 required in Section 907.1. The pan drain shall not be directly or indirectly connected to  
784 any vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or  
785 ASSE 1044, a barrier type floor drain trap seal protection device meeting ASSE 1072, or  
786 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  
789 discharge of water from the water heater only and shall not receive the discharge from  
790 any other fixtures, devices, 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



793 strapped to resist horizontal displacement caused by earthquake motion. Strapping shall  
794 be at points within the upper one-third and lower one-third of the appliance's vertical  
795 dimensions.

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

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

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

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

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

814 P2902.1.2 Specific Installation Criteria.

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

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

817 a. The assembly may not be installed in a pit or below grade where the relief port could be  
818 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 line,  
820 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 approved for  
822 vertical installation in accordance with Section 303.4 of the International Plumbing Code as  
823 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 floor or  
825 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 approved for  
831 vertical installation.

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

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

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

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

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

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

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

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

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

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

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

851 "MAXIMUM FLOW RATE OR QUANTITY":

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

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

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

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

- 861 (15) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the  
862 following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve,  
863 shutoff valves shall be required on each fixture supply pipe to each plumbing appliance  
864 and to each plumbing fixture other than bathtubs and showers."
- 865 (16) IRC, Section P2910.5, is deleted and replaced with the following:  
866 "P2910.5 Potable water connections.  
867 A system that utilizes nonpotable water (i.e., pressurized irrigation) and installs a  
868 connection to the potable water system for backup must install a Reduced Pressure Principle  
869 Assembly (RP) directly downstream of the potable water connection (Stop and Waste) and  
870 install a "dual source connection" directly downstream from the (RP) installed so that either  
871 the potable water system or the nonpotable water is connected at any time to prevent a direct  
872 Cross Connection and to protect the potable water from any potential hazard from the  
873 nonpotable water system. See Utah Code Section 19-4-112. Note: RP must be tested within 10  
874 days of installation and annually whether the drinking water is used or not."
- 875 (17) IRC, Section P2910.9.5, is deleted and replaced with the following:  
876 "P2910.9.5 Makeup water.  
877 Where an uninterrupted nonpotable water supply is required for the intended application,  
878 potable or reclaimed water shall be provided as a source of makeup water for the storage tank.  
879 The makeup water supply shall be protected against backflow by means of an air gap not less  
880 than 4 inches (102 millimeters) above the overflow or by a reduced pressure backflow  
881 prevention assembly installed in accordance with Section 2902."
- 882 (18) In IRC, Section P2911.12.4, the following words are deleted: "and backwater valves."  
883 (19) In IRC, Section P2912.15.6, the following words are deleted: "and backwater valves."  
884 (20) In IRC, Section P3007.3.3.1, the words "stainless steel, cast iron, galvanized steel,  
885 brass" are added after the word "PE."
- 886 (21) IRC, Section P3009, is deleted and replaced with the following:  
887 "P3009 Graywater soil absorption systems: Graywater recycling systems utilized for  
888 subsurface irrigation for single-family residences shall comply with the requirements of Utah  
889 Administrative Code, R317-401, Graywater Systems. Graywater recycling systems utilized for  
890 subsurface irrigation for other occupancies shall comply with Utah Administrative Code,  
891 R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal Systems,  
892 and Utah Administrative Code, R317-4, Onsite Wastewater Systems."
- 893 (22) In IRC, Section P3101.4, the following sentence is added at the end of the paragraph:  
894 "Vents extending through the wall shall terminate not less than 12 inches from the wall

895 with an elbow pointing downward."

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

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

900 (24) In IRC, Section E3401.2, the second sentence is modified by adding the words

901 "townhouses", after the word "dwellings" and the word "their" before the word

902 "accessory" and the following is added after "NFPA 70", "such as, but not limited to the

903 following equipment:

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

905 (b) motors;

906 (c) generators;

907 (d) transformers;

908 (e) phase converters;

909 (f) stationary standby batteries;

910 (g) elevators;

911 (h) dumbwaiters;

912 (i) platform lifts;

913 (j) stairway chairlifts;

914 (k) electric vehicle power transfer systems;

915 (l) electric welders;

916 (m) audio signal processing, amplification, and reproduction equipment;

917 (n) information technology equipment;

918 (o) solar photovoltaic (PV) systems;

919 (p) optional standby systems;

920 (q) interconnected electric power production sources;

921 (r) energy storage systems; and

922 (s) energy management systems."

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

924 **15A-3-206 . Amendments to Chapters 36, 37, 39, and 44 and Appendix F of IRC.**

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

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

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

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

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

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

- 939 1. On or above, but not more than 20 inches (508 mm) above a countertop or work surface.
- 940 2. In a countertop using receptacle outlet assemblies listed for use in countertops.
- 941 3. In a work surface using receptacle outlet assemblies listed for use in work surface or  
942 listed for use in countertops.

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

- 946 4. Under the countertop not more than 14 inches from the bottom leading edge of the  
947 countertop."

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

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

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

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

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

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

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

- 963 (12) In IRC, Section 3902.8, after the word "125-volt" add "single phase 15 and 20 ampere"  
964 and strike the words "through 250 volt."
- 965 (13) In IRC, Section 3902.9, after the word "125-volt" add "single phase 15 and 20 ampere"  
966 and strike the words "through 250 volt."
- 967 (14) IRC, Section 3902.10, is deleted.
- 968 (15) In IRC, Section 3902.12, after the word "125-volt" add "single phase 15 and 20  
969 ampere" and strike the words "through 250 volt."
- 970 (16) In IRC, Section 3902.13, after the word "125-volt" add "single phase 15 and 20  
971 ampere" and strike the words "through 250 volt."
- 972 (17) IRC, Section E3902.16 is deleted.
- 973 (18) IRC Section E3902.17 is deleted.
- 974 (19) IRC, Section E3902.18 is deleted.
- 975 (20) IRC, Section 4002.11, is deleted and replaced with the following: "4002.11 Bathtub  
976 and Shower Space. Receptacles shall not be installed within or directly over a bathtub or  
977 shower stall."
- 978 ~~(21)~~ IRC, Chapter 44, is amended by deleting the standard for "ANCE."
- 979 ~~[(21)]~~ (22) In IRC, Chapter 44, the standard for ASHRAE is amended by changing  
980 "34-2013" to "34-2019."
- 981 ~~[(22)]~~ (23) 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  
986 Electrical Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air  
987 Conditioners and Dehumidifiers-3rd Edition."
- 988 ~~[(23)]~~ (24) 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  
994 Electrical Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air  
995 Conditioners and Dehumidifiers-3rd Edition."
- 996 ~~[(24)]~~

997 (25) In IRC, Chapter 44, the standard for ANSI/RESNET/ICC 201-2019 Section 4.4.4 is  
 998 added as follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps  
 999 and Air Conditioners with the more recent Manufacturers Equipment Performance  
 1000 Ratings (HSPF2 or SEER2) available, and HSPF and SEER are not available, these  
 1001 ratings shall be converted to HSPF and SEER values by dividing HSPF2 or SEER2 by  
 1002 the conversion factors in Table 4.4.4.1(1). If the type of equipment is not determined,  
 1003 the conversion shall default to the Ducted Split System factors. All calculations,  
 1004 including Equation 4.1-1a shall use HSPF or SEER values as made available by the  
 1005 Manufacturer or converted as specified in this section.  
 1006 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

1014 (26) 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"

1018 [~~(25)~~] (27) In IRC, Chapter 44, is amended by adding the following reference standard: "UL  
 1019 9540-20: Energy Storage Systems and Equipment; R328.1, R328.2, and R328.6."

1020 [~~(26)~~] (28) (a) When passive radon controls or portions thereof are voluntarily installed,

1021 the voluntary installation shall comply with Appendix F of the IRC.

1022 (b) An additional inspection of a voluntary installation described in Subsection [~~(22)~~(a)]  
 1023 ~~(27)~~(a) is not required.

1024 Section 9. Section **15A-3-401** is amended to read:

1025 **15A-3-401 . General provisions.**

1026 (1) The amendments in this part are adopted as amendments to the IMC to be applicable  
 1027 statewide.

1028 (2) In IMC, Section 505.4, a new subsection 505.4.1 is added as follows: "505.4.1 Makeup  
 1029 Air. Makeup air is not required in residential dwelling units where gas, liquid, or solid  
 1030 fuel-burning appliances located within a units air barrier are all direct-vent or use a  
 1031 mechanical draft venting system."

1032 (3) In IMC, Section 1004.2, the first sentence is deleted and replaced with the following: "  
 1033 In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by the  
 1034 Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor  
 1035 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in  
 1036 private residences or in apartment houses of less than five family units. Boilers shall be  
 1037 installed in accordance with their listing and labeling, with minimum clearances as  
 1038 prescribed by the manufacturer's installation instructions and the state boiler code,  
 1039 whichever is greater."

1040 [~~(3)~~] (4) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word "boilers".

1041 [~~(4)~~] (5) In IMC, Section 1209.3, the following words are added at the end of the section:  
 1042 "or other methods approved for the application."

1043 Section 10. Section **15A-3-701** is amended to read:

1044 **15A-3-701 . General provisions.**

1045 The following is adopted as an amendment to the IECC to be applicable statewide:

1046 (1) IECC, Section C405.11, is deleted and replaced with the following: "C405.11  
 1047 Automatic receptacle control. Automatic receptacle control to be optional and decided  
 1048 by property owner."

1049 (2) In IECC, Section R102.1.1, a new section R102.1.1 is added as follows: "R102.1.1  
 1050 National Green Building Standard complying with ICC 700-2020 National Green  
 1051 Building Standard and achieving the Gold rating level for the energy efficiency category  
 1052 shall be deemed to exceed the energy efficiency required by this code. The building  
 1053 shall also meet the requirements identified in table N1105.2 and the building thermal  
 1054 envelope efficiency is greater than or equal to levels of efficiency and solar heat gain



- 1055 coefficients (SHGC) in Tables N1102.2.2 and N1102.1.3 of the 2009 IRC."
- 1056 [~~(2)~~] (3) In IECC, Section R103.2, all words after the words "herein governed." are deleted
- 1057 and replaced with the following: "Construction documents include all documentation
- 1058 required [to be submitted in order to issue a building permit.]" for building permits shall
- 1059 include only those items specified in 10-5-132(8) of the Utah Municipal Code."
- 1060 [~~(3)~~] (4) In IECC, Section R303.1.3, the following changes are made:
- 1061 (a) The following is added at the end of the first sentence: "or EN
- 1062 14351-1:2006+A1:2010."
- 1063 (b) The word "accredited" is replaced with "approved" in the third sentence.
- 1064 (c) The following sentence is added after the third sentence: "A conversion factor of
- 1065 5.678 shall be used to convert from U values expressed in SI units:  $()/53678=$ ."
- 1066 (d) After "NFRC 200" the following words are added: "or EN 14351-1:2006+A1:2010",
- 1067 and in the sentence the word "accredited" is replaced with the word "approved".
- 1068 (e) The following new sentence shall be inserted immediately prior to the last sentence:
- 1069 "Total Energy Transmittance values may be substituted for SHGC, and Luminous
- 1070 Transmission values may be substituted for VT."
- 1071 (5) In IECC, Section R303.3, all wording after the first sentence is deleted.
- 1072 [~~(4)~~] (6) In IECC, Section R401.2, [a new number 4 is added as follows:] in the first sentence,
- 1073 the words "Section R401.13.5 and" are deleted.
- 1074 ["4. Compliance may be shown by demonstrating a result, using the software RESCheck
- 1075 2012 Utah Energy Conservation Code, of:]
- 1076 (a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than
- 1077 code";]
- 1078 (b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than
- 1079 code"; and]
- 1080 (c) after January 1, 2021, "5 percent better than code"."]
- 1081 [~~(5)~~] (5) In IECC, Table R402.2, in the column entitled MASS WALL R-VALUE, a new footnote
- 1082 j is added as follows:
- 1083 "j. Log walls complying with ICC400 and with a minimum average wall thickness of 5
- 1084 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a
- 1085 .31 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil,
- 1086 84 AFUE, and all other component requirements are met."
- 1087 [~~(6)~~] (7) In IECC, Section R401.2.5 is deleted.
- 1088 (8) In IECC, Section R401.3 Number 7, the words "and the compliance path used" are

- 1089 deleted.
- 1090 (9) In IECC Table R402.1.2, the following changes are made:
- 1091 (a) in the column titled "Fenestration U-Factor", the following changes are made:
- 1092 (i) in the row titled "Climate Zone 3", delete 0.30 and replace it with 0.32;
- 1093 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.30 and replace it with
- 1094 0.32; and
- 1095 (iii) in the row titled "Climate Zone 6", delete 0.30 and replace it with 0.32;
- 1096 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in
- 1097 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;
- 1098 (c) in the column titled "Climate U-Factor", the following changes are made:
- 1099 (i) in the row titled "Climate Zone 3", delete 0.026 and replace it with 0.030;
- 1100 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.024 and replace it with
- 1101 0.026; and
- 1102 (iii) in the row titled "Climate Zone 6", delete 0.024 and replace it with 0.026;
- 1103 (d) in the column titled "Wood Frame Wall U Factor", the following changes are made:
- 1104 (i) in the row titled "Climate Zone 3", delete 0.060 and replace it with 0.060;
- 1105 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.045 and replace it with
- 1106 0.060; and
- 1107 (iii) in the row titled "Climate Zone 6", delete 0.045 and replace it with 0.060;
- 1108 (e) in the column titled "Basement wall U-Factor", the following changes are made:
- 1109 (i) in the row titled "Climate Zone 5 and Marine 4", delete 0.050 and replace it with
- 1110 0.075; and
- 1111 (ii) in the row titled "Climate Zone 6", delete 0.50 and replace it with 0.065; and
- 1112 (f) in the column titled "Crawl Space Wall U-Factor", the following changes are made:
- 1113 (i) in the row titled "Climate Zone 5 and Marine 4", delete 0.055 and replace it with
- 1114 0.078; and
- 1115 (ii) in the row titled "Climate Zone 6", delete 0.55 and replace it with 0.065.
- 1116 (10) In IECC, Table R402.1.3, the following changes are made:
- 1117 (a) in the column titled "Fenestration U-Factor", the following changes are made:
- 1118 (i) in the row titled "Climate Zone 3", delete 0.30 and replace it with 0.32;
- 1119 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 0.30 and replace it with
- 1120 0.32; and
- 1121 (iii) in the row titled "Climate Zone 6", delete 0.30 and replace it with 0.32;
- 1122 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in

- 1123 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;
- 1124 (c) in the column R-Value the following changes are made:
- 1125 (i) in the row titled "Climate Zone 3", delete 49 and replace it with 38;
- 1126 (ii) in the row titled "Climate Zone 5 and Marine 4", delete 60 and replace it with 49;
- 1127 and
- 1128 (iii) in the row titled "Climate Zone 6", delete 60 and replace it with 49;
- 1129 (d) in the column titled "Wood Frame Wall R-Value", the following changes are made:
- 1130 (i) in the row titled "Climate Zone 3", delete all values and replace with "20+Oci or
- 1131 13+5ci or 0+15ci";
- 1132 (ii) in the row titled "Climate Zone 5 or Marine 4", delete all values and replace with
- 1133 "21+Oci or 15+5ci or 0+15ci"; and
- 1134 (iii) in the row titled "Climate Zone 6", delete all values and replace with "21+Oci or
- 1135 15+5ci or 0+15ci";
- 1136 (e) in the column titled "Basement Wall R-Value", the following changes are made:
- 1137 (i) in the row titled "Climate Zone 5 or Marine 4", delete all values and replace with
- 1138 "15+Oci or 0+11ci or 11+5ci"; and
- 1139 (ii) in the row titled "Climate Zone 6", delete all values and replace with "19+Oci or
- 1140 0+13ci or 11+5ci";
- 1141 (f) in the column titled "Slab R-Value and Depth", the following changes are made:
- 1142 (i) in the row titled "Climate Zone 3", delete "10ci. 2ft" and replace it with "NR"; and
- 1143 (ii) in the row titled "Climate Zone 5 & Marine 4", delete "4 ft" and replace it with
- 1144 "2 ft";
- 1145 (g) in the column titled "Crawl Space Wall R-Value", the following changes are made:
- 1146 (i) in the row titled "Climate Zone 5 or Marine 4", delete all values and replace with
- 1147 "15+Oci or 0+11ci or 11+5ci"; and
- 1148 (ii) in the row titled "Climate Zone 6", delete all values and replace with "19+Oci or
- 1149 0+13ci or 0+11+5ci"; and
- 1150 (h) in IECC, Table R402.2, in the column titled "MASS WALL R-VALUE", a new
- 1151 footnote "j" is added as follows: "j Log walls complying with ICC400 and with a
- 1152 minimum average wall thickness of 5 inches or greater shall be permitted in "Zones 5
- 1153 through 8" when overall window glazing has a .31 U-factor or lower, minimum
- 1154 heating equipment efficiency is 90 AFUE (gas) or 84 AFUE (oil), and all other
- 1155 component requirements are met."
- 1156 (11) In IECC, a new subsection R402.1.5.1 is added as follows: "R402.1.5.1 RESCheck

1157 2012 Utah Energy Conservation Code. Compliance with section N1102.1.5 (R402.1.5)  
1158 may be satisfied using the software RESCheck 2012 Utah Energy Conservation Code,  
1159 which shall satisfy the R-value and U-factor requirements of N1102.1, N1102.2, and  
1160 N1102.3, provided the following conditions are met:

1161 (a) In Climate Zone 5 and 6 the software result shall show 5% better than code; and

1162 (b) In Climate Zone 3, the software result shall show 5% better than code when software  
1163 inputs for window U-factor = 0.65 and window SHGC = 0.40, notwithstanding actual  
1164 windows installed shall conform to requirements of Tables N1102.1.2 (R402.1.2) and  
1165 N1102.1.3 (R402.1.3)."

1166 (12) In IECC, Section R402.2.1, a new section is added as follows: "R402.2.1.1. Unvented  
1167 attic and unvented enclosed rafter assemblies. Unvented attic and unvented enclosed rafter  
1168 assemblies conforming to Section R806.5 shall be provided with an R-value of R-22  
1169 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26 (maximum U-factor  
1170 of 0.038) in Climate Zones 5-B and 6-B shall be permitted provided all the following  
1171 conditions are met:

1172 1. The unvented attic assembly complies with the requirements of the International  
1173 Residential Code, Section R806.5.

1174 2. The house shall attain a blower door test result < 2.5ACH 50.

1175 3. The house shall require a whole house mechanical ventilation system that does not rely  
1176 solely on a negative pressure strategy (must be positive, balanced or hybrid).

1177 4. Where insulation is installed below the roof deck and the exposed portion of roof rafters  
1178 are not already covered by the R-20 depth of the air-impermeable insulation, the exposed  
1179 portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly covered  
1180 by drywall/finished ceiling. Roof rafters are not required to be covered by minimum R-3 if a  
1181 continuous insulation is installed above the roof deck.

1182 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be inside  
1183 the building thermal envelope.

1184 [(7)] (13) A new IECC, Section R402.2.1.3 is added as follows: "R402.2.1.3 Walls with

1185 Air-Impermeable Insulation. Where IECC Table R402.1.2 requires R-20 for wood  
1186 framed walls in climate zones 3-B and 5-B or R-20+5CI for climate zone 6-B, an  
1187 air-impermeable insulation installed in the wall cavity with R-value of R-15 for climate  
1188 zones 3-B and 5-B or R-20 for climate zone 6-B shall be deemed equivalent to the  
1189 provisions in IECC Table R402.1.2, provided the home attains a blower door test <  
1190 2.5ACH."

1191 (14) In IECC, Section R402.2.9.1, the numeral "(i)" is added before the words "cut at a 45  
 1192 degree" and the following is added after the words "exterior wall:": "or (ii) lowered from  
 1193 top of slab 4" when a 4" thermal break material such as, but not limited to, felt or asphalt  
 1194 impregnated fiber board, with a minimum thickness of 1/4" is installed at the upper 4" of  
 1195 slab."

1196 (15) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and  
 1197 replaced with the word "or".

1198 ~~[(8)]~~ (16) In IECC, Section R402.4.1.1, the ~~[last sentence is]~~ second and the last sentences are  
 1199 deleted and replaced with the following: "Where ~~[allowed]~~ required by the code official,  
 1200 the builder ~~[may]~~ shall certify compliance ~~[to components criteria for items which may~~  
 1201 not be inspected during regularly scheduled inspections] with criteria indicated in Table  
 1202 R1102.4.1 for items which are not readily visible during regularly scheduled inspections  
 1203 ."

1204 ~~[(9)]~~ (17) In IECC, Table R402.4.1.1 in the column titled "COMPONENT", the following  
 1205 changes are made:

1206 (a) in the row "Rim Joists" the word "exterior" in the first sentence is deleted, and the  
 1207 second sentence is deleted.

1208 (b) In the row "Electrical/phone box on the exterior walls" the last sentence is deleted  
 1209 and replaced with: "Alternatively, close cell foam, caulking or gaskets may be used,  
 1210 or air sealed boxes may be installed."

1211 (18) In IECC, Section R402.4.1.2, the following changes are made:

1212 (a) In the ~~[first]~~ fourth sentence~~[:]~~, the word "third" is deleted.

1213 ~~[(i) "The building or dwelling unit" is deleted and replaced with "A single-family~~  
 1214 ~~dwelling";]~~

1215 ~~[(ii) after January 1, 2019, replace the word "five" with "3.5"; and]~~

1216 ~~[(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate~~  
 1217 ~~Zones 3 through 8" are deleted.]~~

1218 (b) The following sentence is ~~[inserted after the first sentence: "A multi-family dwelling~~  
 1219 ~~and townhouse shall be tested and verified as having an air leakage rate of not~~  
 1220 ~~exceeding five air changes per hour."]~~ added after the fourth sentence:

1221 ~~[(d) The following sentence is inserted after the third sentence:]~~"The following  
 1222 parties shall be approved to conduct testing: Parties certified by BPI or RESNET,  
 1223 or licensed contractors who have completed training provided by Blower Door  
 1224 Test equipment manufacturers or other comparable training."

- 1225 (c) In the first Exception the second sentence is deleted.  
 1226 [(e) In the third sentence, the word "third" is deleted.]  
 1227 [~~(10) In IECC, Section R403.3.3, the exception for duct air leakage testing is deleted and~~  
 1228 ~~replaced with the following:~~  
 1229 (a) on or after January 1, 2017, and before January 1, 2019, with the following:  
 1230 "Exception: The total leakage test is not required for systems with all air handlers and at  
 1231 least 65% of all ducts (measured by length) located entirely within the building thermal  
 1232 envelope.";]  
 1233 [(b) on or after January 1, 2019, and before January 1, 2021, with the following:  
 1234 "Exception: The duct air leakage test is not required for systems with all air handlers and  
 1235 at least 75% of all ducts (measured by length) located entirely within the building  
 1236 thermal envelope."; and]  
 1237 [(e) on or after January 1, 2021, with the following: "Exception: The duct air leakage test  
 1238 is not required for systems with all air handlers and at least 80% of all ducts (measured  
 1239 by length) located entirely within the building thermal envelope."]  
 1240 [(11) In IECC, Section R403.3.3, the following is added after the exception:  
 1241 "The following parties shall be approved to conduct testing:  
 1242 1. Parties certified by BPI or RESNET;  
 1243 2. Licensed contractors who have completed training provided by Duct Test equipment  
 1244 manufacturers or other comparable training."]  
 1245 [(12) In IECC, Section R403.3.4:  
 1246 (a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170, the  
 1247 number 3 is changed to 6, and the number 85 is changed to 114.6; and]  
 1248 [(b) in Subsection 2:  
 1249 (i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to 8  
 1250 and the number 113.3 is changed to 226.5;]  
 1251 (ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed to 7  
 1252 and the number 113.3 is changed to 198.2; and]  
 1253 (iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is  
 1254 changed to 169.9.]  
 1255 [(13)] (19) In IECC, Section R402.4.1.3 the following changes are made:  
 1256 (a) in the first sentence, the words 5.0 air changes per hour in Climate Zones 0, 1 and 2,  
 1257 and 3.0 are deleted and replaced with 4.0., and the words in Climate Zone 3 through  
 1258 8 are deleted;

- 1259 (b) in the first sentence of the Exception, 0.28 is replaced with 5.0 air changes per hour  
1260 or 0.30; and
- 1261 (c) in Number 2, the words of "conditioned floor area" are inserted before the words "or  
1262 smaller."
- 1263 (20) In IECC, Section R402.6 is deleted.
- 1264 (21) In IECC, Section R403.3.1 is deleted and replaced with the following: "Ducts located  
1265 outside conditioned space. Supply and return ducts in attics shall be insulated to a  
1266 minimum of R-8 where 3 inches (76.2 mm) in diameter and greater and R-6 where less  
1267 than 3 inches (76.2 mm) in diameter. Supply and return ducts in other portions of the  
1268 building shall be insulated to a minimum of R-6 where 3 inches (76.2 mm) in diameter  
1269 or greater and R-4.2 where less than 3 inches (76.2 mm) in diameter. Exception: Ducts  
1270 or portions thereof located completely inside the building thermal envelope."
- 1271 (22) In IECC, Section R403.3.3, is deleted.
- 1272 (23) In IECC, Section R403.3.3.1 is deleted.
- 1273 (24) In IECC, Section R403.3.5, the [words "or plenums" are deleted.] following changes  
1274 are made:
- 1275 (a) a second Exception is added as follows: "A duct leakage test shall not be required for  
1276 any system designed such that no air handlers or ducts are located within  
1277 unconditioned attics."
- 1278 (b) the following is added at the end of the section: "The following parties shall be  
1279 approved to conduct testing:
- 1280 (i) Parties certified by BPT or RESNET
- 1281 (ii) Licensed contractors who have completed training provided by Duct Test  
1282 equipment manufacturers or other comparable training."
- 1283 [~~14~~] In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are  
1284 renumbered.]
- 1285 [~~15~~] (25) In IECC, Section N1103.3.6 (R403.3.6) the following changes are made:
- 1286 (a) in Subsection 1:
- 1287 (i) the number 4.0 is changed to 6.0;
- 1288 (ii) the number 113.3 is changed to 170;
- 1289 (iii) the number 3.0 is changed to 5.0; and
- 1290 (iv) the number 85 is changed to 141;
- 1291 (b) in Subsection 2:
- 1292 (i) the number 4.0 is changed to 5.0; and

1293 (ii) the number 113.3 is changed to 141; and

1294 (c) Subsection 3 is deleted.

1295 (26) In IECC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.

1296 (27) In IECC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added at  
 1297 the beginning of the first sentence.

1298 (28) IECC, Section [R403.6.1] R403.6.2, is deleted and replaced with the following: ["R403.6.1]  
 1299 "R403.6.2 Whole-house mechanical ventilation system fan efficacy. Fans used to provide  
 1300 whole-house mechanical ventilation shall meet the efficacy requirements of Table [R403.6.1.]  
 1301 R403.6.2."

1302 "Exception: Where an air handler that is integral to tested and listed HVAC equipment is  
 1303 used to provide whole-house mechanical ventilation, the air handler shall be powered by an  
 1304 electronically commutated motor."

1305 [(16)] (29) In IECC, Section [R403.6.1] R403.6.2, the table is deleted and replaced with the  
 1306 following:

1307 "TABLE [R403.6.1] R403.6.2"

1308 "MECHANICAL VENTILATION SYSTEM FAN EFFICACY"

1309

1310

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"

1316 [(17) In IECC, Section R406.5, the table is deleted and replaced with the following:

1317 "TABLE R406.5

1318 MAXIMUM ENERGY RATING INDEX

1319

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

1320  
1321  
1322



- 1323 ~~[(18)]~~ (30) In IECC, Section R403.6.3 is deleted.
- 1324 (31) In IECC, Section R403.7, the word "approved" is deleted in the first sentence and the  
1325 following is added after the word "methodologies": "complying with R403.7.1."
- 1326 (32) A new IECC, Section R403.7.1, is added as follows: "R403.7.1 Qualifications. An  
1327 individual performing load calculations shall be qualified by completing HVAC training from  
1328 one of the following:
- 1329 1. HVAC load calculation education from ACCA;
- 1330 2. A recognized educational institution;
- 1331 3. HVAC equipment manufacturer's training; or
- 1332 4. Other recognized industry certification."
- 1333 (33) In IECC, Section R404.1, the word "All" is replaced with "Not less than 90 percent of  
1334 the lamps in."
- 1335 (34) In IECC, Section R404.1.1 is deleted.
- 1336 (35) In IECC, Section R404.2 is deleted.
- 1337 (36) In IECC, Section R404.3 is deleted.
- 1338 (37) In IECC, Section R405.2 the following changes are made:
- 1339 (a) in Subsection 3, the words "approved by the code official" are deleted; and
- 1340 (b) in Subsection 3, the following words are added at the end of the sentence: "when  
1341 applicable and readily available."
- 1342 (38) In IECC, Section R406.3 "Building thermal envelope" is deleted, and replaced with the  
1343 following: "Building thermal envelope and on-site renewables. The proposed total  
1344 building thermal envelope UA, which is the sum of U-factor times assembly area, shall  
1345 be less than or equal to the building thermal envelope UA using the prescriptive  
1346 U-factors From Table N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4.  
1347 The area-weighted maximum fenestration SHGC permitted in Climate Zones 0 through  
1348 3 shall be 0.30.  $U_{\text{Proposed design}} = 1.15 \times U_{\text{Prescriptive reference design}}$  (Equation  
1349 11-4)."
- 1350 (39) In IECC, Section R406.3.1 is deleted.
- 1351 (40) In IECC, Section R406.3.2 is deleted.
- 1352 (41) In IECC, Section R406.4 the following changes are made:
- 1353 (a) in the first sentence, the words "in accordance with Equation 11-5" are deleted and  
1354 replaced with: "permitted to be calculated using the minimum total air exchange Rate  
1355 for the rated home ( $Q_{\text{tot}}$ ) and for the index adjustment factor in accordance with  
1356 Equation 11.5.";

1357 (b) in equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:  
 1358 "Qtot"; and

1359 (c) in the last sentence, the number "5" is deleted and replaced with "15".

1360 (42) In IECC, Section R406.5 in the column titled ENERGY RATING INDEX of Table  
 1361 R406.5, the following changes are made:

1362 (a) in the row for Climate Zone 3, "51" is deleted and replaced with "65";

1363 (b) in the row for Climate Zone 5, "55" is deleted and replaced with "69"; and

1364 (c) in the row for Climate Zone 6, "54" is deleted and replaced with "68".

1365 (43) In IECC, Section R408 is deleted.

1366 (a) (i) (A) In IECC, Chapter 6, the standard for ANSI/RESNET/ICC 201-2019

1367 section 4.4.4 is added as follows: "4.4.4. Air Source Heat Pumps and Air

1368 Conditioners. For Heat Pumps and Air Conditioners with the more recent

1369 Manufacturers Equipment Performance Ratings (HSPF2 or SEER2) available,

1370 and HSPF and SEER are not available, these ratings shall be converted to

1371 HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion

1372 factors in Table 4.4.4.1(1). If the type of equipment is not determined, the

1373 conversion shall default to the Ducted Split System factors. All calculations,

1374 including Equation 4.1-1a shall use HSPF or SEER values as made available

1375 by the Manufacturer or converted as specified in this section. Table 4.4.4.1(1)

1376 SEER2 and HSPF2 Conversion"

Equipment Type	SEER2/SEER	EER2/EER4	HSPF2/HSPF
Ductless Systems	1.00	1.00	0.90
Ducted Split System	0.95	0.95	0.85
Ducted Packaged 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

1383 <u>Ducted Space- Constrained Heat Pump</u>	0.99	<u>Not Applicable</u>	0.85"
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1384 Section 11. Section **15A-3-801** is amended to read:

1385 **15A-3-801 . General provisions.**

1386 The following are adopted as amendments to the IEBC and are applicable  
1387 statewide:

1388 (1) In IEBC, Section 202, the definition for "Approved" is modified by adding the words  
1389 "or independent third-party licensed engineer or architect and submitted to the building  
1390 official" after the word official.

1391 (2) In Section 202, the following definition is added: "BUILDING OFFICIAL. See Code  
1392 Official."

1393 [(2)] (3) In Section 202, the definition for "code official" is deleted and replaced with the  
1394 following:

1395 "CODE OFFICIAL. The officer or other designated authority having jurisdiction (AHJ)  
1396 charged with the administration and enforcement of this code."

1397 [(3)] (4) In Section 202, the definition for existing buildings is deleted and replaced with the  
1398 following:

1399 "EXISTING BUILDING. A building that is not a dangerous building and that was either  
1400 lawfully erected under a prior adopted code, or deemed a legal non-conforming building by the  
1401 code official."

1402 [(4)] (5) In IEBC, Section 302.3, the following is added after the words "code official" in the  
1403 last sentence: "or independent third-party licensed engineer or architect and submitted to  
1404 the building official."

1405 (6) In Section 301.3, the exception is deleted.

1406 [(5)] (7) In Section 305.4.2, number 7 is added after number 6 as follows: "7. When a change  
1407 of occupancy in a building or portion of a building results in a Group R-2 occupancy,  
1408 not less than 20% of the dwelling or sleeping units shall be Type-B dwelling or sleeping  
1409 units. These dwelling or sleeping units may be located on any floor of the building  
1410 provided with an accessible route. Two percent, but not less than one unit, of the  
1411 dwelling or sleeping units shall be Type-A dwelling units."

1412 [(6)] (7) Section 503.6 is deleted and replaced with the following:

1413 "503.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing.  
1414 Where the intended alteration requires a permit for reroofing and involves removal of

1415 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
1416 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
1417 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
1418 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
1419 compliance of such items. Reduced seismic forces are permitted for design purposes."

1420 [~~(7) In Section 705.1, Exception number 3, the following is added at the end of the~~  
1421 ~~exception:"This exception does not apply if the existing facility is undergoing a change~~  
1422 ~~of occupancy classification."]~~

1423 (8) Section 706.3.1 is deleted and replaced with the following:

1424 "706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.

1425 Where a permit is issued for reroofing more than 25 percent of the roof area of a building  
1426 assigned to Seismic Design Category D, E, or F that has parapets constructed of unreinforced  
1427 masonry or appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work  
1428 shall include installation of bracing to resist the reduced International Building Code level  
1429 seismic forces as specified in Section 303 of this code unless an evaluation demonstrates  
1430 compliance of such items."

1431 (9) Section 906.6 is deleted and replaced with the following:

1432 "906.6 Bracing for unreinforced masonry parapets and other appendages upon reroofing.

1433 Where the intended alteration requires a permit for reroofing and involves removal of  
1434 roofing materials from more than 25% of the roof area of a building assigned to Seismic  
1435 Design Category D, E, or F that has parapets constructed of unreinforced masonry or  
1436 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include  
1437 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates  
1438 compliance with such items. Reduced seismic forces are permitted for design purposes."

1439 (10) (a) Section 1006.3 is deleted and replaced with the following:

1440 "1006.3 Seismic Loads. Where a change of occupancy results in a building being assigned  
1441 to a higher risk category, or when a change of occupancy results in a design occupant load  
1442 increase of 100% or more, the building shall satisfy the requirements of Section 1613 of the  
1443 International Building Code using full seismic forces."

1444 (b) Section 1006.3, exceptions 1 through 3 remain unchanged.

1445 (c) In Section 1006.3, add a new exception 5 as follows:

1446 " 5. Where the design occupant load increase is less than 25 occupants and the occupancy  
1447 category does not change."

1448 (11) In Section [~~1012.7.3~~] 1011.7.3, exception 2 is deleted.

1449 *The following section is affected by a coordination clause at the end of this bill.*

1450 Section 12. Section **15A-5-103** is amended to read:

1451 **15A-5-103 . Nationally recognized codes incorporated by reference.**

1452 The following codes are incorporated by reference into the State Fire Code:

- 1453 (1) the International Fire Code, 2021 edition, excluding appendices, as issued by the  
1454 International Code Council, Inc., except as amended by Part 2, Statewide Amendments  
1455 and Additions to International Fire Code Incorporated as Part of State Fire Code;  
1456 (2) National Fire Protection Association, NFPA 1, Chapter 38, Marijuana Growing,  
1457 Processing, and Extraction Facilities, 2018 edition;  
1458 (3) National Fire Protection Association, NFPA 54, National Fuel Gas Code, [~~2021~~] 2024  
1459 edition; and  
1460 (4) National Fire Protection Association, NFPA 58, Liquefied Petroleum Gas Code, [~~2023~~]  
1461 2024 edition.

1462 Section 13. Section **58-55-102** is amended to read:

1463 **58-55-102 . Definitions.**

1464 In addition to the definitions in Section 58-1-102, as used in this chapter:

- 1465 (1) (a) "Alarm business" or "alarm company" means a person engaged in the sale,  
1466 installation, maintenance, alteration, repair, replacement, servicing, or monitoring of  
1467 an alarm system, except as provided in Subsection (1)(b).  
1468 (b) "Alarm business" or "alarm company" does not include:  
1469 (i) a person engaged in the manufacture or sale of alarm systems unless:  
1470 (A) that person is also engaged in the installation, maintenance, alteration, repair,  
1471 replacement, servicing, or monitoring of alarm systems;  
1472 (B) the manufacture or sale occurs at a location other than a place of business  
1473 established by the person engaged in the manufacture or sale; or  
1474 (C) the manufacture or sale involves site visits at the place or intended place of  
1475 installation of an alarm system; or  
1476 (ii) an owner of an alarm system, or an employee of the owner of an alarm system  
1477 who is engaged in installation, maintenance, alteration, repair, replacement,  
1478 servicing, or monitoring of the alarm system owned by that owner.  
1479 (2) "Alarm company agent":  
1480 (a) except as provided in Subsection (2)(b), means any individual employed within this  
1481 state by an alarm business; and  
1482 (b) does not include an individual who:

- 1483 (i) is not engaged in the sale, installation, maintenance, alteration, repair,  
1484 replacement, servicing, or monitoring of an alarm system; and  
1485 (ii) does not, during the normal course of the individual's employment with an alarm  
1486 business, use or have access to sensitive alarm system information.
- 1487 (3) "Alarm company officer" means:
- 1488 (a) a governing person, as defined in Section 48-3a-102, of an alarm company;  
1489 (b) an individual appointed as an officer of an alarm company that is a corporation in  
1490 accordance with Section 16-10a-830;  
1491 (c) a general partner, as defined in Section 48-2e-102, of an alarm company; or  
1492 (d) a partner, as defined in Section 48-1d-102, of an alarm company.
- 1493 (4) "Alarm company owner" means:
- 1494 (a) a shareholder, as defined in Section 16-10a-102, who owns directly, or indirectly  
1495 through an entity controlled by the individual, 5% or more of the outstanding shares  
1496 of an alarm company that:
- 1497 (i) is a corporation; and  
1498 (ii) is not publicly listed or traded; or  
1499 (b) an individual who owns directly, or indirectly through an entity controlled by the  
1500 individual, 5% or more of the equity of an alarm company that is not a corporation.
- 1501 (5) "Alarm company proprietor" means the sole proprietor of an alarm company that is  
1502 registered as a sole proprietorship with the Division of Corporations and Commercial  
1503 Code.
- 1504 (6) "Alarm company trustee" means an individual with control of or power of  
1505 administration over property held in trust.
- 1506 (7) (a) "Alarm system" means equipment and devices assembled for the purpose of:
- 1507 (i) detecting and signaling unauthorized intrusion or entry into or onto certain  
1508 premises; or  
1509 (ii) signaling a robbery or attempted robbery on protected premises.
- 1510 (b) "Alarm system" includes a battery-charged suspended-wire system or fence that is  
1511 part of and interfaces with an alarm system for the purposes of detecting and  
1512 deterring unauthorized intrusion or entry into or onto certain premises.
- 1513 (8) "Apprentice electrician" means a person licensed under this chapter as an apprentice  
1514 electrician who is learning the electrical trade under the immediate supervision of a  
1515 master electrician, residential master electrician, a journeyman electrician, or a  
1516 residential journeyman electrician.

- 1517 (9) "Apprentice plumber" means a person licensed under this chapter as an apprentice  
1518 plumber who is learning the plumbing trade under the immediate supervision of a master  
1519 plumber, residential master plumber, journeyman plumber, or a residential journeyman  
1520 plumber.
- 1521 (10) "Approved continuing education" means instruction provided through courses under a  
1522 program established under Subsection 58-55-302.5(2).
- 1523 (11) (a) "Approved preclicensure course provider" means a provider that is the  
1524 Associated General Contractors of Utah, the Utah Chapter of the Associated Builders  
1525 and Contractors, or the Utah Home Builders Association, and that meets the  
1526 requirements established by rule by the commission with the concurrence of the  
1527 director, to teach the 25-hour course described in Subsection 58-55-302(1)(e)(iii).
- 1528 (b) "Approved preclicensure course provider" may only include a provider that, in  
1529 addition to any other locations, offers the 25-hour course described in Subsection  
1530 58-55-302(1)(e)(iii) at least six times each year in one or more counties other than  
1531 Salt Lake County, Utah County, Davis County, or Weber County.
- 1532 (12) "Board" means the Electrician Licensing Board, Alarm System Security and Licensing  
1533 Board, or Plumbers Licensing Board created in Section 58-55-201.
- 1534 (13) "Combustion system" means an assembly consisting of:
- 1535 (a) piping and components with a means for conveying, either continuously or  
1536 intermittently, natural gas from the outlet of the natural gas provider's meter to the  
1537 burner of the appliance;
- 1538 (b) the electric control and combustion air supply and venting systems, including air  
1539 ducts; and
- 1540 (c) components intended to achieve control of quantity, flow, and pressure.
- 1541 (14) "Commission" means the Construction Services Commission created under Section  
1542 58-55-103.
- 1543 (15) "Construction trade" means any trade or occupation involving:
- 1544 (a) (i) construction, alteration, remodeling, repairing, wrecking or demolition,  
1545 addition to, or improvement of any building, highway, road, railroad, dam, bridge,  
1546 structure, excavation or other project, development, or improvement to other than  
1547 personal property; and
- 1548 (ii) constructing, remodeling, or repairing a manufactured home or mobile home as  
1549 defined in Section 15A-1-302; or
- 1550 (b) installation or repair of a residential or commercial natural gas appliance or

1551 combustion system.

1552 (16) "Construction trades instructor" means a person licensed under this chapter to teach  
1553 one or more construction trades in both a classroom and project environment, where a  
1554 project is intended for sale to or use by the public and is completed under the direction  
1555 of the instructor, who has no economic interest in the project.

1556 (17) (a) "Contractor" means any person who for compensation other than wages as an  
1557 employee undertakes any work in the construction, plumbing, or electrical trade for  
1558 which licensure is required under this chapter and includes:

- 1559 (i) a person who builds any structure on the person's own property for the purpose of  
1560 sale or who builds any structure intended for public use on the person's own  
1561 property;
- 1562 (ii) any person who represents that the person is a contractor, or will perform a  
1563 service described in this Subsection (17) by advertising on a website or social  
1564 media, or any other means;
- 1565 (iii) any person engaged as a maintenance person, other than an employee, who  
1566 regularly engages in activities set forth under the definition of "construction trade";
- 1567 (iv) any person engaged in, or offering to engage in, any construction trade for which  
1568 licensure is required under this chapter; or
- 1569 (v) a construction manager, construction consultant, construction assistant, or any  
1570 other person who, for a fee:
- 1571 (A) performs or offers to perform construction consulting;
- 1572 (B) performs or offers to perform management of construction subcontractors;
- 1573 (C) provides or offers to provide a list of subcontractors or suppliers; or
- 1574 (D) provides or offers to provide management or counseling services on a  
1575 construction project.

1576 (b) "Contractor" does not include:

- 1577 (i) an alarm company or alarm company agent; or
- 1578 (ii) a material supplier who provides consulting to customers regarding the design  
1579 and installation of the material supplier's products.

1580 (18) (a) "Electrical trade" means the performance of any electrical work involved in the  
1581 installation, construction, alteration, change, repair, removal, or maintenance of  
1582 facilities, buildings, or appendages or appurtenances.

1583 (b) "Electrical trade" does not include:

- 1584 (i) transporting or handling electrical materials;



- 1585 (ii) preparing clearance for raceways for wiring;  
1586 (iii) work commonly done by unskilled labor on any installations under the exclusive  
1587 control of electrical utilities;  
1588 (iv) work involving cable-type wiring that does not pose a shock or fire-initiation  
1589 hazard; or  
1590 (v) work involving class two or class three power-limited circuits as defined in the  
1591 National Electrical Code.
- 1592 (19) "Elevator" means the same as that term is defined in Section 34A-7-202, except that  
1593 for purposes of this chapter it does not mean a stair chair, a vertical platform lift, or an  
1594 incline platform lift.
- 1595 (20) "Elevator contractor" means a sole proprietor, firm, or corporation licensed under this  
1596 chapter that is engaged in the business of erecting, constructing, installing, altering,  
1597 servicing, repairing, or maintaining an elevator.
- 1598 (21) "Elevator mechanic" means an individual who is licensed under this chapter as an  
1599 elevator mechanic and who is engaged in erecting, constructing, installing, altering,  
1600 servicing, repairing, or maintaining an elevator under the immediate supervision of an  
1601 elevator contractor.
- 1602 (22) "Employee" means an individual as defined by the division by rule giving  
1603 consideration to the definition adopted by the Internal Revenue Service and the  
1604 Department of Workforce Services.
- 1605 (23) "Engage in a construction trade" means to:
- 1606 (a) engage in, represent oneself to be engaged in, or advertise oneself as being engaged  
1607 in a construction trade; or  
1608 (b) use the name "contractor" or "builder" or in any other way lead a reasonable person  
1609 to believe one is or will act as a contractor.
- 1610 (24) (a) "Financial responsibility" means a demonstration of a current and expected  
1611 future condition of financial solvency evidencing a reasonable expectation to the  
1612 division and the board that an applicant or licensee can successfully engage in  
1613 business as a contractor without jeopardy to the public health, safety, and welfare.  
1614 (b) Financial responsibility may be determined by an evaluation of the total history  
1615 concerning the licensee or applicant including past, present, and expected condition  
1616 and record of financial solvency and business conduct.
- 1617 (25) "Gas appliance" means any device that uses natural gas to produce light, heat, power,  
1618 steam, hot water, refrigeration, or air conditioning.

- 1619 (26) (a) "General building contractor" means a person licensed under this chapter as a  
1620 general building contractor qualified by education, training, experience, and  
1621 knowledge to perform or superintend construction of structures for the support,  
1622 shelter, and enclosure of persons, animals, chattels, or movable property of any kind  
1623 or any of the components of that construction except plumbing, electrical work,  
1624 mechanical work, work related to the operating integrity of an elevator, and  
1625 manufactured housing installation, for which the general building contractor shall  
1626 employ the services of a contractor licensed in the particular specialty, except that a  
1627 general building contractor engaged in the construction of single-family and  
1628 multifamily residences up to four units may perform the mechanical work and hire a  
1629 licensed plumber or electrician as an employee.
- 1630 (b) The division may by rule exclude general building contractors from engaging in the  
1631 performance of other construction specialties in which there is represented a  
1632 substantial risk to the public health, safety, and welfare, and for which a license is  
1633 required unless that general building contractor holds a valid license in that specialty  
1634 classification.
- 1635 (27) (a) "General electrical contractor" means a person licensed under this chapter as a  
1636 general electrical contractor qualified by education, training, experience, and  
1637 knowledge to perform the fabrication, construction, and installation of generators,  
1638 transformers, conduits, raceways, panels, switch gear, electrical wires, fixtures,  
1639 appliances, or apparatus that uses electrical energy.
- 1640 (b) The scope of work of a general electrical contractor may be further defined by rules  
1641 made by the commission, with the concurrence of the director, in accordance with  
1642 Title 63G, Chapter 3, Utah Administrative Rulemaking Act.
- 1643 (28) (a) "General engineering contractor" means a person licensed under this chapter as  
1644 a general engineering contractor qualified by education, training, experience, and  
1645 knowledge to perform or superintend construction of fixed works or components of  
1646 fixed works requiring specialized engineering knowledge and skill in any of the  
1647 following:
- 1648 (i) irrigation;
  - 1649 (ii) drainage;
  - 1650 (iii) water power;
  - 1651 (iv) water supply;
  - 1652 (v) flood control;

- 1653 (vi) an inland waterway;
- 1654 (vii) a harbor;
- 1655 (viii) a railroad;
- 1656 (ix) a highway;
- 1657 (x) a tunnel;
- 1658 (xi) an airport;
- 1659 (xii) an airport runway;
- 1660 (xiii) a sewer;
- 1661 (xiv) a bridge;
- 1662 (xv) a refinery;
- 1663 (xvi) a pipeline;
- 1664 (xvii) a chemical plant;
- 1665 (xviii) an industrial plant;
- 1666 (xix) a pier;
- 1667 (xx) a foundation;
- 1668 (xxi) a power plant;[-øŕ]
- 1669 (xxii) a utility plant or installation[-:] ; or
- 1670 (xxiii) an underground electric utility conduit.
- 1671 (b) A general engineering contractor may not perform or superintend:
- 1672 (i) construction of a structure built primarily for the support, shelter, and enclosure of
- 1673 persons, animals, and chattels; or
- 1674 (ii) performance of:
- 1675 (A) plumbing work;
- 1676 (B) electrical work beyond underground electric utility conduit; or
- 1677 (C) mechanical work.
- 1678 (29) (a) "General plumbing contractor" means a person licensed under this chapter as a
- 1679 general plumbing contractor qualified by education, training, experience, and
- 1680 knowledge to perform the fabrication or installation of material and fixtures to create
- 1681 and maintain sanitary conditions in a building by providing permanent means for a
- 1682 supply of safe and pure water, a means for the timely and complete removal from the
- 1683 premises of all used or contaminated water, fluid and semi-fluid organic wastes and
- 1684 other impurities incidental to life and the occupation of such premises, and a safe and
- 1685 adequate supply of gases for lighting, heating, and industrial purposes.
- 1686 (b) The scope of work of a general plumbing contractor may be further defined by rules

- 1687 made by the commission, with the concurrence of the director, in accordance with  
1688 Title 63G, Chapter 3, Utah Administrative Rulemaking Act.
- 1689 (30) "Immediate supervision" means reasonable direction, oversight, inspection, and  
1690 evaluation of the work of a person:  
1691 (a) as the division specifies in rule;  
1692 (b) by, as applicable, a qualified electrician or plumber;  
1693 (c) as part of a planned program of training; and  
1694 (d) to ensure that the end result complies with applicable standards.
- 1695 (31) "Individual" means a natural person.
- 1696 (32) "Journeyman electrician" means a person licensed under this chapter as a journeyman  
1697 electrician having the qualifications, training, experience, and knowledge to wire, install,  
1698 and repair electrical apparatus and equipment for light, heat, power, and other purposes.
- 1699 (33) "Journeyman plumber" means a person licensed under this chapter as a journeyman  
1700 plumber having the qualifications, training, experience, and technical knowledge to  
1701 engage in the plumbing trade.
- 1702 (34) "Master electrician" means a person licensed under this chapter as a master electrician  
1703 having the qualifications, training, experience, and knowledge to properly plan, layout,  
1704 and supervise the wiring, installation, and repair of electrical apparatus and equipment  
1705 for light, heat, power, and other purposes.
- 1706 (35) "Master plumber" means a person licensed under this chapter as a master plumber  
1707 having the qualifications, training, experience, and knowledge to properly plan and  
1708 layout projects and supervise persons in the plumbing trade.
- 1709 (36) "Person" means a natural person, sole proprietorship, joint venture, corporation,  
1710 limited liability company, association, or organization of any type.
- 1711 (37) (a) "Plumbing trade" means the performance of any mechanical work pertaining to  
1712 the installation, alteration, change, repair, removal, maintenance, or use in buildings,  
1713 or within three feet beyond the outside walls of buildings, of pipes, fixtures, and  
1714 fittings for the:  
1715 (i) delivery of the water supply;  
1716 (ii) discharge of liquid and water carried waste;  
1717 (iii) building drainage system within the walls of the building; and  
1718 (iv) delivery of gases for lighting, heating, and industrial purposes.
- 1719 (b) "Plumbing trade" includes work pertaining to the water supply, distribution pipes,  
1720 fixtures and fixture traps, soil, waste and vent pipes, the building drain and roof

- 1721 drains, and the safe and adequate supply of gases, together with their devices,  
1722 appurtenances, and connections where installed within the outside walls of the  
1723 building.
- 1724 (38) "Ratio of apprentices" means the number of licensed plumber apprentices or licensed  
1725 electrician apprentices that are allowed to be under the immediate supervision of a  
1726 licensed supervisor as established by the provisions of this chapter and by rules made by  
1727 the commission, with the concurrence of the director, in accordance with Title 63G,  
1728 Chapter 3, Utah Administrative Rulemaking Act.
- 1729 (39) "Residential and small commercial contractor" means a person licensed under this  
1730 chapter as a residential and small commercial contractor qualified by education, training,  
1731 experience, and knowledge to perform or superintend the construction of single-family  
1732 residences, multifamily residences up to four units, and commercial construction of not  
1733 more than three stories above ground and not more than 20,000 square feet, or any of the  
1734 components of that construction except plumbing, electrical work, mechanical work, and  
1735 manufactured housing installation, for which the residential and small commercial  
1736 contractor shall employ the services of a contractor licensed in the particular specialty,  
1737 except that a residential and small commercial contractor engaged in the construction of  
1738 single-family and multifamily residences up to four units may perform the mechanical  
1739 work and hire a licensed plumber or electrician as an employee.
- 1740 (40) "Residential building," as it relates to the license classification of residential  
1741 journeyman plumber and residential master plumber, means a single or multiple family  
1742 dwelling of up to four units.
- 1743 (41) (a) "Residential electrical contractor" means a person licensed under this chapter as  
1744 a residential electrical contractor qualified by education, training, experience, and  
1745 knowledge to perform the fabrication, construction, and installation of services,  
1746 disconnecting means, grounding devices, panels, conductors, load centers, lighting  
1747 and plug circuits, appliances, and fixtures in a residential unit.
- 1748 (b) The scope of work of a residential electrical contractor may be further defined by  
1749 rules made by the commission, with the concurrence of the director, in accordance  
1750 with Title 63G, Chapter 3, Utah Administrative Rulemaking Act.
- 1751 (42) "Residential journeyman electrician" means a person licensed under this chapter as a  
1752 residential journeyman electrician having the qualifications, training, experience, and  
1753 knowledge to wire, install, and repair electrical apparatus and equipment for light, heat,  
1754 power, and other purposes on buildings using primarily nonmetallic sheath cable.

- 1755 (43) "Residential journeyman plumber" means a person licensed under this chapter as a  
1756 residential journeyman plumber having the qualifications, training, experience, and  
1757 knowledge to engage in the plumbing trade as limited to the plumbing of residential  
1758 buildings.
- 1759 (44) "Residential master electrician" means a person licensed under this chapter as a  
1760 residential master electrician having the qualifications, training, experience, and  
1761 knowledge to properly plan, layout, and supervise the wiring, installation, and repair of  
1762 electrical apparatus and equipment for light, heat, power, and other purposes on  
1763 residential projects.
- 1764 (45) "Residential master plumber" means a person licensed under this chapter as a  
1765 residential master plumber having the qualifications, training, experience, and  
1766 knowledge to properly plan and layout projects and supervise persons in the plumbing  
1767 trade as limited to the plumbing of residential buildings.
- 1768 (46) (a) "Residential plumbing contractor" means a person licensed under this chapter as  
1769 a residential plumbing contractor qualified by education, training, experience, and  
1770 knowledge to perform the fabrication or installation of material and fixtures to create  
1771 and maintain sanitary conditions in residential buildings by providing permanent  
1772 means for a supply of safe and pure water, a means for the timely and complete  
1773 removal from the premises of all used or contaminated water, fluid and semi-fluid  
1774 organic wastes and other impurities incidental to life and the occupation of such  
1775 premises, and a safe and adequate supply of gases for lighting, heating, and  
1776 residential purposes.
- 1777 (b) The scope of work of a residential plumbing contractor may be further defined by  
1778 rules made by the commission, with the concurrence of the director, in accordance  
1779 with Title 63G, Chapter 3, Utah Administrative Rulemaking Act.
- 1780 (47) "Residential project," as it relates to an electrician or electrical contractor, means  
1781 buildings primarily wired with nonmetallic sheathed cable, in accordance with standard  
1782 rules and regulations governing this work, including the National Electrical Code, and in  
1783 which the voltage does not exceed 250 volts line to line and 125 volts to ground.
- 1784 (48) "Responsible management personnel" means:
- 1785 (a) a qualifying agent;
- 1786 (b) an operations manager; or
- 1787 (c) a site manager.
- 1788 (49) "Sensitive alarm system information" means:

- 1789 (a) a pass code or other code used in the operation of an alarm system;  
1790 (b) information on the location of alarm system components at the premises of a  
1791 customer of the alarm business providing the alarm system;  
1792 (c) information that would allow the circumvention, bypass, deactivation, or other  
1793 compromise of an alarm system of a customer of the alarm business providing the  
1794 alarm system; and  
1795 (d) any other similar information that the division by rule determines to be information  
1796 that an individual employed by an alarm business should use or have access to only if  
1797 the individual is licensed as provided in this chapter.

1798 (50) (a) "Specialty contractor" means a person licensed under this chapter under a  
1799 specialty contractor classification established by rule, who is qualified by education,  
1800 training, experience, and knowledge to perform those construction trades and crafts  
1801 requiring specialized skill, the regulation of which are determined by the division to  
1802 be in the best interest of the public health, safety, and welfare.

1803 (b) A specialty contractor may perform work in crafts or trades other than those in which  
1804 the specialty contractor is licensed if they are incidental to the performance of the  
1805 specialty contractor's licensed craft or trade.

1806 (51) "Unincorporated entity" means an entity that is not:

- 1807 (a) an individual;  
1808 (b) a corporation; or  
1809 (c) publicly traded.

1810 (52) "Unlawful conduct" means the same as that term is defined in Sections 58-1-501 and  
1811 58-55-501.

1812 (53) "Unprofessional conduct" means the same as that term is defined in Sections 58-1-501  
1813 and 58-55-502 and as may be further defined by rule.

1814 (54) "Wages" means amounts due to an employee for labor or services whether the amount  
1815 is fixed or ascertained on a time, task, piece, commission, or other basis for calculating  
1816 the amount.

1817 Section 14. **Effective date.**

1818 This bill takes effect on July 1, 2024.

1819 Section 15. **Coordinating H.B. 518 with H.B. 64.**

1820 If H.B. 518, State Construction Code Modifications, and H.B. 64, State

1821 Construction and Fire Codes Amendments, both pass and become law, the Legislature

1822 intends that, on July 1, 2024, the amendments to:

- 1823        (1) Section 15A-3-203 in H.B. 518 supersede the amendments to Section 15A-3-203  
1824 in H.B. 64;
- 1825        (2) Section 15A-3-205 in H.B. 518 supersede the amendments to Section 15A-3-205  
1826 in H.B. 64; and
- 1827        (3) Section 15A-5-103 in H.B. 518 supersede the amendments to Section 15A-5-103  
1828 in H.B. 64.