

Calvin R. Musselman proposes the following substitute bill:

**Construction Industry Amendments**

2025 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Thomas W. Peterson**

Senate Sponsor: Calvin R. Musselman

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**LONG TITLE**

**General Description:**

This bill modifies the State Construction Code.

**Highlighted Provisions:**

This bill:

▸ amends the State Construction Code to:

- align with updated standards in the International Residential Code (IRC); and
- align with the updated standards in the National Electric Code (NEC);

▸ includes a coordination clause to make the amendments to Section 15A-3-202 in this bill supersede the amendments to Section 15A-3-202 in H.B. 175, Housing Construction Amendments;

- removes regulations for water heaters in certain areas; and
- makes technical changes.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

This bill provides a special effective date.

This bill provides a coordination clause.

**Utah Code Sections Affected:**

AMENDS:

**15A-2-103**, as last amended by Laws of Utah 2024, Chapter 505

**15A-3-105**, as last amended by Laws of Utah 2024, Chapter 505

**15A-3-202**, as last amended by Laws of Utah 2024, Chapter 505

**15A-3-206**, as last amended by Laws of Utah 2024, Chapter 505

**15A-3-601**, as last amended by Laws of Utah 2024, Chapter 15

**19-2-107.7**, as enacted by Laws of Utah 2016, Chapter 247

29 **Utah Code Sections affected by Coordination Clause:**30 **15A-3-202**, as last amended by Laws of Utah 2024, Chapter 505

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32 *Be it enacted by the Legislature of the state of Utah:*33 Section 1. Section **15A-2-103** is amended to read:34 **15A-2-103 . Specific editions adopted of construction code of a nationally**  
35 **recognized code authority.**36 (1) Subject to the other provisions of this part, the following construction codes are  
37 incorporated by reference, and together with the amendments specified in Chapter 3,  
38 Statewide Amendments Incorporated as Part of State Construction Code, and Chapter 4,  
39 Local Amendments Incorporated as Part of State Construction Code, are the  
40 construction standards to be applied to building construction, alteration, remodeling, and  
41 repair, and in the regulation of building construction, alteration, remodeling, and repair  
42 in the state:

- 43 (a) the 2021 edition of the International Building Code, including Appendices C and J,
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- 44 issued by the International Code Council;
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- 45 (b) the 2021 edition of the International Residential Code, issued by the International
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- 46 Code Council;
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- 47 (c) Appendix AQ of the 2021 edition of the International Residential Code, issued by the
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- 48 International Code Council;
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- 49 (d) the 2021 edition of the International Plumbing Code, issued by the International
- 
- 50 Code Council;
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- 51 (e) the 2021 edition of the International Mechanical Code, issued by the International
- 
- 52 Code Council;
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- 53 (f) the 2021 edition of the International Fuel Gas Code, issued by the International Code
- 
- 54 Council;
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- 55 (g) the [2020]
- 2023
- edition of the National Electrical Code, issued by the National Fire
- 
- 56 Protection Association;
- 
- 57 (h) the 2021 edition of the International Energy Conservation Code, issued by the
- 
- 58 International Code Council;
- 
- 59 (i) the 2021 edition of the International Existing Building Code, issued by the
- 
- 60 International Code Council;
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- 61 (j) subject to Subsection 15A-2-104(2), the HUD Code;
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- 62 (k) subject to Subsection 15A-2-104(1), Appendix AE of the 2021 edition of the

- 63 International Residential Code, issued by the International Code Council;
- 64 (l) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model
- 65 Manufactured Home Installation Standard, issued by the National Fire Protection
- 66 Association;
- 67 (m) subject to Subsection (3), for standards and guidelines pertaining to plaster on a
- 68 historic property, as defined in Section 9-8a-302, the U.S. Department of the Interior
- 69 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic
- 70 Buildings;[-and]
- 71 (n) the residential provisions of the 2021 edition of the International Swimming Pool
- 72 and Spa Code, issued by the International Code Council; and
- 73 (o) Modular Building Institute Standards 1200 and 1205, issued by the International
- 74 Code Council, except as modified by provisions of this title governing modular units.
- 75 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire Control,
- 76 the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
- 77 issued by the International Code Council, with the alternatives or amendments approved
- 78 by the Utah Division of Forestry, Fire, and State Lands, as a construction code that may
- 79 be adopted by a local compliance agency by local ordinance or other similar action as a
- 80 local amendment to the codes listed in this section.
- 81 (3) The standards and guidelines described in Subsection (1)[~~(n)~~] (m) apply only if:
- 82 (a) the owner of the historic property receives a government tax subsidy based on the
- 83 property's status as a historic property;
- 84 (b) the historic property is wholly or partially funded by public money; or
- 85 (c) the historic property is owned by a government entity.

86 Section 2. Section **15A-3-105** is amended to read:

87 **15A-3-105 . Amendments to Chapters 10 through 12 of IBC.**

- 88 (1) In IBC, Section 1010.2.4, number (2), the following is added at the end of the sentence:
- 89 "Blended assisted living facilities shall comply with Section 1010.2.14.1."
- 90 (2) A new IBC Section 1010.2.14.1 is added as follows: "1010.2.14.1 Blended assisted
- 91 living facilities. In occupancy Group I-1, Condition 2 or Group I-2, a Type-II assisted
- 92 living facility licensed by the Department of Health and Human Services for residents
- 93 with Alzheimer's or dementia, and having a controlled egress locking system to prevent
- 94 operation from the egress side shall be permitted to also house residents without a
- 95 clinical need for their containment where all of the following provisions are met:
- 96 (a) locks in the means of egress comply with all IBC requirements for controlled egress

97 doors;

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

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

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

105 (3) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: " 3. In  
106 Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group  
107 U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual  
108 dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches  
109 (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum  
110 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum  
111 winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1  
112 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid  
113 risers where the tread depth is less than 10 inches (254 mm)."

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

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

119 (6) In IBC, Section 1104.4, exception 1.5 is deleted.

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

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

122 **15A-3-202 . Amendments to Chapters 1 through 5 of IRC.**

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

125 (2) In IRC, Section R101.2, Exception, the words "6. A triplex or fourplex of no more than  
126 two levels with 2-hour fire-resistance-rated vertical shared wall assemblies tested in  
127 accordance with ASTM E119 or UL263, 1-hour fire-resistance-rated horizontal floor  
128 assemblies tested in accordance with ASTM E119 or UL263, and independent egress for  
129 each unit." are added.

130 [~~2~~] (3) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2

131 Physical change for bedroom window egress. A structure whose egress window in an  
132 existing bedroom is smaller than required by this code, and that complied with the  
133 construction code in effect at the time that the bedroom was finished, is not required to  
134 undergo a physical change to conform to this code if the change would compromise the  
135 structural integrity of the structure or could not be completed in accordance with other  
136 applicable requirements of this code, including setback and window well requirements."

137 [~~(3)~~] (4) In IRC Section R105.2, under Building, the following changes are made:

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

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

144 [~~(4)~~] (5) In IRC, Section R105.2, a new exception is added: "11. Grade level, non-connected  
145 conex boxes, less than 350 square feet, used for storage only."

146 [~~(5)~~] (6) In IRC, Section R108.3, the following sentence is added at the end of the section:

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

148 [~~(6)~~] (7) In IRC, Section 109.1.5, is deleted and replaced with the following: "R109.1.5

149 Other inspections. In addition to the inspections listed in R109.1.1 through R109.1.4, the  
150 building official shall have the authority to inspect the proper installation of insulation.

151 R109.1.5.1 Weather-resistant exterior wall envelope inspections. An inspection shall be  
152 made of the weather-resistant exterior wall envelope as required by Section R703.1 and  
153 flashings as required by Section R703.4 to prevent water from entering the

154 weather-resistive barrier.R109.1.5.2 Fire-resistance-rated construction inspection. Where  
155 fire-resistance-rated construction is required between dwelling units or due to location  
156 on property, the building official shall require an inspection of such construction after  
157 lathing or gypsum board or gypsum panel products are in place, but before any plaster is  
158 applied, or before board or panel joints and fasteners are taped and finished."

159 [~~(7)~~] (8) In IRC, Section R202, the following definition is added: "ACCESSORY

160 DWELLING UNIT: A habitable living unit created within the existing footprint of a  
161 primary owner-occupied single-family dwelling."

162 [~~(8)~~] (9) In IRC, Section R202, the definition for "Approved" is modified by adding the  
163 words "or independent third-party licensed engineer or architect and submitted to the  
164 building official" after the word "official."

165 [~~(9)~~] (10) In IRC, Section R202, the definition for "Approved Agency" is modified by  
166 replacing the word "and" with "or."

167 [~~(10)~~] (11) In IRC, Section 202, the definition for "Approved Source" is modified by adding  
168 the words "or licensed engineer or architect" after the word "official."

169 [~~(11)~~] (12) In IRC, Section R202, the following definition is added: "CERTIFIED  
170 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown  
171 competence to test Backflow prevention assemblies to the satisfaction of the authority  
172 having jurisdiction under Utah Code, Subsection 19-4-104(4)."

173 [~~(12)~~] (13) In IRC, Section R202, the definition of "Cross Connection" is deleted and  
174 replaced with the following: "CROSS CONNECTION. Any physical connection or  
175 potential connection or arrangement between two otherwise separate piping systems,  
176 one of which contains potable water and the other either water of unknown or  
177 questionable safety or steam, gas, or chemical, whereby there exists the possibility for  
178 flow from one system to the other, with the direction of flow depending on the pressure  
179 differential between the two systems (see "Backflow, Water Distribution")."

180 [~~(13)~~] (14) In IRC, Section 202, the following definition is added: "DUAL SOURCE  
181 CONNECTION. A pipe that is installed so that either the nonpotable (i.e. secondary)  
182 irrigation water or the potable water is connected to a pressurized irrigation system at  
183 one time, but not both at the same time; or a pipe that is installed so that either the  
184 potable water or private well water is connected to a residence at one time, but not both  
185 at the same time. The potable water supply line shall be protected by a reduced pressure  
186 backflow preventer."

187 [~~(14)~~] (15) In IRC, Section 202, the following definition is added: "ENERGY STORAGE  
188 SYSTEM (ESS). One or more devices, assembled together, that are capable of storing  
189 energy for supplying electrical energy at a future time."

190 [~~(15)~~] (16) In IRC, Section 202, in the definition for gray water a comma is inserted after the  
191 word "washers"; the word "and" is deleted; and the following is added to the end: "and  
192 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible;  
193 without objectionable odors; non-highly pigmented; and will not interfere with the  
194 operation of the sewer treatment facility."

195 [~~(16)~~] (17) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced  
196 with the following: "POTABLE WATER. Water free from impurities present in  
197 amounts sufficient to cause disease or harmful physiological effects and conforming to  
198 the Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5,

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

200 [(47)] (18) In IRC, Figure R301.2 (3), is deleted and replaced with R301.2 (3) as follows:

201 "TABLE R301.2 (3)

202 GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

203 City/Town	203 County	203 Ground Snow Load (lb/ft <sup>2</sup> )	203 Elevation (ft)
204 Beaver	204 Beaver	204 35	204 5886
205 Brigham City	205 Box Elder	205 42	205 4423
206 Castle Dale	206 Emery	206 32	206 5669
207 Coalville	207 Summit	207 57	207 5581
208 Duchesne	208 Duchesne	208 39	208 5508
209 Farmington	209 Davis	209 35	209 4318
210 Fillmore	210 Millard	210 30	210 5138
211 Heber City	211 Wasatch	211 60	211 5604
212 Junction	212 Piute	212 27	212 6030
213 Kanab	213 Kane	213 25	213 4964
214 Loa	214 Wayne	214 37	214 7060
215 Logan	215 Cache	215 43	215 4531
216 Manila	216 Daggett	216 26	216 6368
217 Manti	217 Sanpete	217 37	217 5620
218 Moab	218 Grand	218 21	218 4029
219 Monticello	219 San Juan	219 67	219 7064
220 Morgan	220 Morgan	220 52	220 5062
221 Nephi	221 Juab	221 39	221 5131
222 Ogden	222 Weber	222 37	222 4334
223 Panguitch	223 Garfield	223 41	223 6630
224 Parowan	224 Iron	224 32	224 6007
225 Price	225 Carbon	225 31	225 5558
226 Provo	226 Utah	226 31	226 4541

227	Randolph	Rich	50	6286
228	Richfield	Sevier	27	5338
229	St. George	Washington	21	2585
230	Salt Lake City	Salt Lake	28	4239
231	Tooele	Tooele	35	5029
232	Vernal	Uintah	39	5384

233 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."

234 [(18)] (19) In IRC, Section R301.6, is deleted and replaced with the following: "R301.6

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

240 [(19)] (20) In IRC, Section R302.2, the following sentence is added at the end of the

241 paragraph: "When an access/maintenance agreement or easement is in place, plumbing,  
 242 mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including  
 243 feeders, are permitted to penetrate the common wall at grade, above grade, or below  
 244 grade."

245 [(20)] (21) In IRC, Section R302.3, a new exception 3 is added as follows: "3. Accessory

246 dwelling units separated by walls or floor assemblies protected by not less than 1/2-inch  
 247 (12.7 mm) gypsum board or equivalent on each side of the wall or bottom of the floor  
 248 assembly are exempt from the requirements of this section."

249 [(21)] (22) In IRC, Section R302.5.1, the last sentence is deleted.

250 [(22)] (23) In IRC, Section R302.13, is deleted.

251 [(23)] (24) In IRC, Section R303.4, the following exception is added: "Exception: Dwelling



252 units tested in accordance with Section N1102.4.1.2 (R402.4.1.2) which has an air  
253 tightness of 3.0 ACH (50) or greater do not require mechanical ventilation."

254 [~~(24)~~] (25) In IRC, Section R310.1, all words in the last sentence after "or to a yard or  
255 court", are deleted, and Exception 3 of this section is deleted.

256 [~~(25)~~] (26) In IRC, Section R310.7, in the exception, the words "or accessory dwelling  
257 units" are added after the words "sleeping rooms".

258 [~~(26)~~] (27) IRC, Sections R311.7.45 through R311.7.5.3, are deleted and replaced with the  
259 following: "R311.7.45.1 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser  
260 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading  
261 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not  
262 exceed the smallest by more than 3/8 inch (9.5 mm).

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

272 R311.7.5.3 Nosing. The radius of curvature at the leading edge of the tread shall be no  
273 greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than  
274 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
275 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)  
276 between two stories, including the nosing at the level of floors and landings. Beveling of  
277 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
278 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51  
279 rad) from the vertical. Open risers are permitted, provided that the opening between treads  
280 does not permit the passage of a 4-inch diameter (102 mm) sphere.

281 Exceptions.

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

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

285 [~~(27)~~] (28) In IRC, Section R312.2, is deleted.

286 [~~(28)~~] (29) In IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the  
287 following: "R313.1 Design and installation. When installed, automatic residential fire  
288 sprinkler systems for townhouses or one- and two-family dwellings shall be designed  
289 and installed in accordance with Section P2904 or NFPA 13D."

290 [~~(29)~~] (30) In IRC, Section R314.2.2, the words "accessory dwelling units," are added after  
291 the words "Where alterations, repairs."

292 [~~(30)~~] (31) In IRC, Section R315.2.2, the words "accessory dwelling units," are added after  
293 the words "Where alterations, repairs."

294 [~~(31)~~] (32) In IRC, Section 315.3, the following words are added to the first sentence after  
295 the word "installed": "on each level of the dwelling unit and."

296 [~~(32)~~] (33) A new IRC, Section R328.12, is added as follows:  
297 "R328.12 Signage. A sign located on the exterior of the dwelling shall be installed at a  
298 location approved by the authority having jurisdiction which identifies the battery chemistry  
299 included in the ESS. This sign shall be of sufficient durability to withstand the environment  
300 involved and shall not be handwritten."

301 [~~(33)~~] (34) In IRC, Section 403.1.3.5.3, an exception is added as follows: "Exception:  
302 Vertical steel in footings shall be permitted to be located while concrete is still plastic  
303 and before it has set. Where vertical steel resists placement or the consolidation of  
304 concrete around steel is impeded, the concrete shall be vibrated to ensure full contact  
305 between the vertical steel and concrete."

306 [~~(34)~~] (35) In IRC, Section R403.1.6, a new Exception 3 is added as follows: "3. When  
307 anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
308 placed with a minimum of two bolts per plate section located not less than 4 inches (102  
309 mm) from each end of each plate section at interior bearing walls, interior braced wall  
310 lines, and at all exterior walls."

311 [~~(35)~~] (36) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and  
312 Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches  
313 (816 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate  
314 section located not less than 4 inches (102 mm) from each end of each plate section at  
315 interior bearing walls, interior braced wall lines, and at all exterior walls."

316 [~~(36)~~] (37) In IRC, Section R404.1, a new exception is added as follows: "Exception: As an  
317 alternative to complying with Sections R404.1 through R404.1.5.3, concrete and  
318 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5  
319 and 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

320 [(37)] (38) In IRC, Section R405.1, a second exception is added as follows: "Exception:  
321 When a geotechnical report has been provided for the property, a drainage system is not  
322 required unless the drainage system is required as a condition of the geotechnical report.  
323 The geotechnical report shall make a recommendation regarding a drainage system."

324 [(38)] (39) In IRC, Section R506.2.3, the words "10-mil (0.010 inch; 0.25 mm)" are deleted  
325 and replaced with "6-mil (0.006 inch; 0.152 mm)" and the words "conforming to ASTM  
326 E1745 Class A requirements" are deleted.

327 (40) In IRC, Section 507.2.1, Wood materials. The following sentence is added after the  
328 words, "in accordance with section R317," "field applied weather resistant barrier  
329 applied to the top of untreated material,".

330 Section 4. Section **15A-3-206** is amended to read:

331 **15A-3-206 . Amendments to Chapters 36, 37, 39, and 44 and Appendix F of IRC.**

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

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

336 (3) IRC, Section E3601.7, is deleted and replaced with the following:

337 "3601.7 Maximum number of disconnects. The service disconnecting means shall consist of  
338 not more than six switches or six sets of circuit breakers mounted in a single enclosure or in a  
339 group of separate enclosures."

340 (4) In IRC, Section E3705.4.4, the following sentences are deleted:

341 "Where more than two NM cables containing two or more current-carrying  
342 conductors are installed, without maintaining space between the cables, through the  
343 same opening in wood framing should be sealed with thermal insulation, caulk or  
344 sealing foam. The allowable ampacity of each conductor shall be adjusted in accordance  
345 with Table E3705.3 and the provisions of Section E3701.3. Exception. may not apply."

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

347 "E3901.4.2 Island and Peninsular Countertops and Work Spaces. Receptacle outlets, if  
348 installed to serve an island or peninsular countertop or work surface, shall be installed in  
349 accordance with E3901.4.3. If a receptacle outlet is not provided to serve an island or  
350 peninsular countertop or work surface, provisions shall be provided at the island or peninsula  
351 for future addition of a receptacle outlet to serve the island or peninsular countertop or work  
352 surface."

353 [(5)] (6) IRC, Section E3901.4.3, is deleted and replaced with the following:

354 "E3901.4.3 Receptacle Outlet Location. [~~Receptacle~~] When installed, receptacle outlets  
355 shall be located in one or more of the following:

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

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

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

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

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

366 [~~(6)~~] (7) In IRC, Section 3902.1, after the word "125-volt" add "single phase 15 and 20  
367 ampere" and strike the words "through 250 volt."

368 [~~(7)~~] (8) In IRC, Section 3902.2, after the word "125-volt" add "single phase 15 and 20  
369 ampere" and strike the words "through 250 volt."

370 [~~(8)~~] (9) In IRC, Section 3902.3, after the word "125-volt" add "single phase 15 and 20  
371 ampere" and strike the words "through 250 volt."

372 [~~(9)~~] (10) In IRC, Section 3902.4, after the word "125-volt" add "single phase 15 and 20  
373 ampere" and strike the words "through 250 volt."

374 [~~(10)~~] (11) In IRC, Section 3902.5, after the word "125-volt" add the words "single phase 15  
375 and 20 ampere in unfinished portions of the basement shall have ground-fault  
376 circuit-interrupter protection for personnel" and delete the rest of the section.

377 [~~(11)~~] (12) In IRC, Section 3902.6, after the word "125-volt" add "single phase 15 and 20  
378 ampere" and strike the words "through 250 volt."

379 [~~(12)~~] (13) In IRC, Section 3902.7, after the word "125-volt" add "single phase 15 and 20  
380 ampere" and strike the words "through 250 volt."

381 [~~(13)~~] (14) In IRC, Section 3902.8, after the word "125-volt" add "single phase 15 and 20  
382 ampere" and strike the words "through 250 volt."

383 [~~(14)~~] (15) In IRC, Section 3902.9, after the word "125-volt" add "single phase 15 and 20  
384 ampere" and strike the words "through 250 volt."

385 [~~(15)~~] (16) IRC, Section 3902.10, is deleted.

386 [~~(16)~~] (17) In IRC, Section 3902.12, after the word "125-volt" add "single phase 15 and 20  
387 ampere" and strike the words "through 250 volt."

- 388 [~~(17)~~] (18) In IRC, Section 3902.13, after the word "125-volt" add "single phase 15 and 20  
389 ampere" and strike the words "through 250 volt."
- 390 [~~(18)~~] (19) IRC, Section 3902.15, Crawl space lighting outlets, is deleted.
- 391 [~~(19)~~] (20) IRC, Section 3902.16, Equipment requiring servicing, is deleted.
- 392 [~~(20)~~] (21) IRC Section 3902.17, Outdoor outlets, is deleted.
- 393 [~~(21)~~] (22) IRC, Section 3902.19, Location of arc-fault circuit interrupters, is deleted.
- 394 [~~(22)~~] (23) IRC, Section E3902.20, Arc-fault circuit interrupter protection, is deleted.
- 395 [~~(23)~~] (24) IRC, Section E3902.21, Arc-fault circuit interrupter protection for branch circuit  
396 extensions or modification, is deleted.
- 397 [~~(24)~~] (25) IRC, Section 4002.11, is deleted and replaced with the following: "4002.11  
398 Bathtub and Shower Space. Receptacles shall not be installed within or directly over a  
399 bathtub or shower stall."
- 400 [~~(25)~~] (26) IRC, Chapter 44, is amended by deleting the standard for "ANCE."
- 401 [~~(26)~~] (27) In IRC, Chapter 44, the standard for ASHRAE is amended by changing  
402 "34-2013" to "34-2019."
- 403 [~~(27)~~] (28) In IRC, Chapter 44, the standard for CSA, is amended by changing the:  
404 (a) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA  
405 60335-2-40-2019"; and  
406 (b) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
407 Requirements for Motor-Compressors" to "Standard for Household and Similar  
408 Electrical Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air  
409 Conditioners and Dehumidifiers-3rd Edition."
- 410 [~~(28)~~] (29) In IRC, Chapter 44, the standard for UL, is amended by changing the:  
411 (a) standard reference number "1995-2011" to "1995-2015";  
412 (b) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA  
413 60335-2-40-2019"; and  
414 (c) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
415 Requirements for Motor-Compressors" to "Standard for Household and Similar  
416 Electrical Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air  
417 Conditioners and Dehumidifiers-3rd Edition."
- 418 [~~(29)~~] (30) In IRC, Chapter 44, the standard for ANSI/RESNET/ICC 201-2019 Section 4.4.4 is  
419 added as follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and  
420 Air Conditioners with the more recent Manufacturers Equipment Performance Ratings (HSPF2  
421 or SEER2) available, and HSPF and SEER are not available, these ratings shall be converted

422 to HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion factors in Table  
 423 4.4.4.1(1). If the type of equipment is not determined, the conversion shall default to the  
 424 Ducted Split System factors. All calculations, including Equation 4.1-1a shall use HSPF or  
 425 SEER values as made available by the Manufacturer or converted as specified in this section.  
 426 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"

434 [~~30~~] (31) 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"

438 [~~31~~] (32) IRC, Chapter 44, is amended by adding the following reference standard: "UL  
 439 9540-20: Energy Storage Systems and Equipment; R328.1, R328.2, and R328.6."

440 [~~32~~] (33)(a) When passive radon controls or portions thereof are voluntarily installed,  
 441 the voluntary installation shall comply with Appendix F of the IRC.

442 (b) An additional inspection of a voluntary installation described in Subsection [~~(27)(a)-~~  
 443 ~~(28)(a)~~ is not required.

444 Section 5. Section **15A-3-601** is amended to read:

445 **15A-3-601 . General provisions.**

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

- 447 (1) The IRC provisions are adopted as the residential electrical standards applicable to  
 448 residential installations under the IRC. All other installations shall comply with the  
 449 adopted NEC.
- 450 (2) In NEC, Section 210.8(A), the words "through 250-volt" are deleted.

451 (3) In NEC, Section 210.8(A) number (5), the word "Basements" is deleted and replaced  
452 with the following:

453 "Unfinished portions or areas of the basement not intended as habitable rooms."

454 (4) In NEC, Section 210.8(A), number (6), the following is added after the word "Kitchens":  
455 "where the receptacles are installed to serve the countertop surfaces."

456 (5) In NEC, Section 210.8(A), number (7) is deleted.

457 (6) In NEC, Section 210.8(D), numbers (8) through (12) are deleted.

458 (7) NEC, Section 210.8(F), is deleted.

459 [(5)] (8) NEC, Sections 210.52(C) number (2) and number (3) are deleted and replaced with the  
460 following:

461 "210.52(C)(2) Island and peninsular countertops and Work Surfaces. Receptacle outlets,  
462 if installed to serve an island or peninsular countertop or work surface, shall be installed in  
463 accordance with 210.52(C)(3). If a receptacle outlet is not provided to serve an island or  
464 peninsular countertop or work surface, provisions shall be provided at the island or peninsula  
465 for future addition of a receptacle outlet to serve the island or peninsular countertop or work  
466 surface.

467 210.2(C)(3) Receptacle outlet location. Receptacle outlets shall be located in one or  
468 more of the following:

469 (a) On or above, but not more than 500 mm (20 inches) above a countertop or work  
470 surface.

471 (b) In a countertop using receptacle assemblies listed for use in countertops.

472 (c) In a work surface using receptacle outlet assemblies listed for use in work surfaces or listed  
473 for use in countertops.

474 Receptacle outlets rendered not readily accessible by appliances fastened in place,  
475 appliance garages, sinks, or range tops as covered in the exception to 210.52(C)(1), occupying  
476 assigned spaces shall not be considered as these required outlets.

477 Exception: In dwelling units designed to be accessible to persons with disabilities,  
478 receptacles shall be permitted to be installed not more than 300 mm (12 inches) below the  
479 countertop or work surface. Receptacles installed below a countertop or work surface shall not  
480 be located where the countertop or work surface extends more than 150 mm (6 inches) beyond  
481 its support or base."

482 [(6)] (9) NEC, Section 210.12, is deleted.

483 [(7)] (10) NEC, Section 210.65, is deleted.

484 (11) NEC, Section 215.18, is deleted.

485 (12) NEC, Section 225.42 is deleted.

486 [~~8~~] (13) NEC, Section 230.67, is deleted.

487 [~~9~~] (14) NEC, Section 230.71, is deleted and replaced with the following:

488 "230.71 Maximum Number of Disconnects.

489 (A) General. The service disconnecting means for each service permitted by 230.2, or for  
490 each set of service-entrance conductors permitted by 230.40, Exception No. 1, 3, 4, or 5 shall  
491 consist of not more than six switches or sets of circuit breakers, or a combination of not more  
492 than six switches and sets of circuit breakers, mounted in a single enclosure, in a group of  
493 separate enclosures, or in or on a switchboard or in switchgear. There shall be not more than  
494 six sets of disconnects per service grouped in any one location. For the purpose of this section,  
495 disconnecting means installed as part of listed equipment and used solely for the following  
496 shall not be considered a service disconnecting means:

497 (1) Power monitoring equipment;

498 (2) Surge-protective device(s);

499 (3) Control circuit of the ground-fault protection system; or

500 (4) Power-operable service disconnecting.

501 (B) Single-Pole Units. Two or three single-pole switches or breakers, capable of individual  
502 operation, shall be permitted on multiwire circuits, one pole for each ungrounded conductor, as  
503 one multipole disconnect, provided they are equipped with identified handle ties or a master  
504 handle to disconnect all conductors of the service with no more than six operations of the hand.

505 (C) Beginning on July 1, 2027, Section 230.71(B) is no longer in effect."

506 [~~10~~] (15) NEC, Section 314.27(C), is deleted and replaced with the following: "314.27(C)

507 Boxes at Ceiling-Suspended (Paddle) Fan Outlets. Outlet boxes or outlet box systems  
508 used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be  
509 marked by their manufacturer as suitable for this purpose, and shall not support  
510 ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or  
511 outlet box systems designed to support ceiling-suspended (paddle) fans that weigh more  
512 than 16 kg (35 lb), the required marking shall include the maximum weight to be  
513 supported."

514 (16) In NEC, Section 334.24, the last sentence is deleted and replaced with the following:

515 "For flat cables, the minor diameter dimension of the cable shall be used to determine  
516 the bending radius when bending on the flat side of the cable. For all other bends, the  
517 major diameter dimension shall be used."

518 [~~11~~] NEC, Section 406.9(C), is deleted and replaced with the following: "406.9(C) Bathtub



519 ~~and Shower Space. Receptacles shall not be installed within or directly over a bathtub or~~  
 520 ~~shower stall."]~~

521 (17) In NEC, Section 334.80, the second paragraph is deleted.

522 (18) In NEC, Section 338.24, the last sentence is deleted and replaced with the following:

523 "For flat cables, the minor diameter dimension of the cable shall be used to determine  
 524 the bending radius when bending on the flat side of the cable. For all other bends, the  
 525 major diameter dimension shall be used."

526 (19) In NEC, Section 406.9(B) number (2), the following words are deleted:

527 "be listed weather-resistant type, and installation shall".

528 (20) NEC, Section 700.3(A) is deleted and replaced with the following:

529 "700.3(A) Conductor Witness Test.

530 The authority having jurisdiction shall conduct or witness a test of the complete  
 531 system upon installation and periodically afterward."

532 Section 6. Section **19-2-107.7** is amended to read:

101 **19-2-107.7 . Water heater regulations.**

533a (1) As used in this section:

533b (a) "Natural gas-fired water heater" means a device that heats water by the combustion  
 533c of natural gas to a thermostatically-controlled temperature not exceeding 210 degrees  
 533d Fahrenheit for use external to the vessel at pressures not exceeding 160 pounds per  
 533e square inch gauge.

533f (b) "Ozone nonattainment area" means an area that does not meet the primary or  
 533g secondary air quality standards for ozone under the national ambient air quality  
 533h standards described in 42 U.S.C. Sec. 7407(d).

533i (c) "PM2.5 nonattainment area" means an area that does not meet the primary or  
 533j secondary air quality standards for fine particulate matter, PM2.5, under the national  
 533k ambient air quality standards described in 42 U.S.C. Sec. 7407(d).

533l [(b)] (d) "Recreational vehicle" means a motor home, travel trailer, truck camper, or  
 533m camping trailer, with or without motive power, designed for human habitation for  
 533n recreational, emergency, or other occupancy.

533o (2) A person may not sell or purchase a natural gas-fired water heater that is manufactured  
 533p after July 1, 2018 with the intent to install it in Utah if the natural gas-fired water heater  
 533q exceeds the applicable nitrogen oxide emission rate limit set in Title 15A, State  
 533r Construction and Fire Codes Act.

533s (3) A manufacturer in Utah shall display the model number and nitrogen oxide emission

- 533t rate of a water heater complying with this section on:
- 533u (a) the shipping carton for the water heater; and
- 533v (b) the permanent rating plate of each water heater unit.
- 533w (4) This section does not apply to a water heater unit that:
- 533x (a) uses a fuel other than natural gas;
- 533y (b) is used in a recreational vehicle; [or]
- 533z (c) is manufactured in Utah for shipment and use outside of Utah[-] ; or
- 533aa (d) is intended to be installed in an area of Utah that is not included in an ozone
- 533bb nonattainment area or a PM2.5 nonattainment area.
- 533cc Section 7. **Effective Date.**
- 533dd This bill takes effect on July 1, 2025.
- 533ee Section 8. **Coordinating H.B. 313 with H.B. 175.**
- 533ff If H.B. 313, State Construction and Electrical Standards Amendments, and H.B. 175,
- 533gg Housing Construction Amendments, both pass and become law, the Legislature intends that,
- 533hh on July 1, 2025, the amendments to Section 15A-3-202 in H.B. 313 supersede the amendments
- 533ii to Section 15A-3-202 in H.B. 175.