

Thomas W. Peterson proposes the following substitute bill:

**State Construction and Electrical Standards 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);
  - align with the updated standards in the National Electric Code (NEC); and
- makes technical changes.

**Money Appropriated in this Bill:**

None

**Other Special Clauses:**

None

**Utah Code Sections Affected:**

AMENDS:

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

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

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

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

(1) Subject to the other provisions of this part, the following construction codes are incorporated by reference, and together with the amendments specified in Chapter 3,

30 Statewide Amendments Incorporated as Part of State Construction Code, and Chapter 4,  
31 Local Amendments Incorporated as Part of State Construction Code, are the  
32 construction standards to be applied to building construction, alteration, remodeling, and  
33 repair, and in the regulation of building construction, alteration, remodeling, and repair  
34 in the state:

- 35 (a) the 2021 edition of the International Building Code, including Appendices C and J,  
36 issued by the International Code Council;
- 37 (b) the 2021 edition of the International Residential Code, issued by the International  
38 Code Council;
- 39 (c) Appendix AQ of the 2021 edition of the International Residential Code, issued by the  
40 International Code Council;
- 41 (d) the 2021 edition of the International Plumbing Code, issued by the International  
42 Code Council;
- 43 (e) the 2021 edition of the International Mechanical Code, issued by the International  
44 Code Council;
- 45 (f) the 2021 edition of the International Fuel Gas Code, issued by the International Code  
46 Council;
- 47 (g) the ~~[2020]~~ 2023 edition of the National Electrical Code, issued by the National Fire  
48 Protection Association;
- 49 (h) the 2021 edition of the International Energy Conservation Code, issued by the  
50 International Code Council;
- 51 (i) the 2021 edition of the International Existing Building Code, issued by the  
52 International Code Council;
- 53 (j) subject to Subsection 15A-2-104(2), the HUD Code;
- 54 (k) subject to Subsection 15A-2-104(1), Appendix AE of the 2021 edition of the  
55 International Residential Code, issued by the International Code Council;
- 56 (l) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model  
57 Manufactured Home Installation Standard, issued by the National Fire Protection  
58 Association;
- 59 (m) subject to Subsection (3), for standards and guidelines pertaining to plaster on a  
60 historic property, as defined in Section 9-8a-302, the U.S. Department of the Interior  
61 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic  
62 Buildings; ~~[and]~~
- 63 (n) the residential provisions of the 2021 edition of the International Swimming Pool

- 64 and Spa Code, issued by the International Code Council; and
- 65 (o) Modular Building Institute Standards 1200 and 1205, issued by the International
- 66 Code Council, except as modified by provisions of this title governing modular units.
- 67 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire Control,
- 68 the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
- 69 issued by the International Code Council, with the alternatives or amendments approved
- 70 by the Utah Division of Forestry, Fire, and State Lands, as a construction code that may
- 71 be adopted by a local compliance agency by local ordinance or other similar action as a
- 72 local amendment to the codes listed in this section.
- 73 (3) The standards and guidelines described in Subsection (1)[~~(n)~~] (m) apply only if:
- 74 (a) the owner of the historic property receives a government tax subsidy based on the
- 75 property's status as a historic property;
- 76 (b) the historic property is wholly or partially funded by public money; or
- 77 (c) the historic property is owned by a government entity.

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

79 **15A-3-105 . Amendments to Chapters 10 through 12 of IBC.**

- 80 (1) In IBC, Section 1010.2.4, number (2), the following is added at the end of the sentence:
- 81 "Blended assisted living facilities shall comply with Section 1010.2.14.1."
- 82 (2) A new IBC Section 1010.2.14.1 is added as follows: "1010.2.14.1 Blended assisted
- 83 living facilities. In occupancy Group I-1, Condition 2 or Group I-2, a Type-II assisted
- 84 living facility licensed by the Department of Health and Human Services for residents
- 85 with Alzheimer's or dementia, and having a controlled egress locking system to prevent
- 86 operation from the egress side shall be permitted to also house residents without a
- 87 clinical need for their containment where all of the following provisions are met:
- 88 (a) locks in the means of egress comply with all IBC requirements for controlled egress
- 89 doors;
- 90 (b) all residents without a clinical need for their containment shall have the keys, codes,
- 91 or other means necessary to exit the facility, in a manner that is determined by the
- 92 facility operator and communicated to the resident or their legal representative;
- 93 (c) residents or their legal representative acknowledge in writing that they understand
- 94 and agree to living in a facility where egress is controlled; and
- 95 (d) the number of residents housed in a smoke compartment with controlled egress shall
- 96 not be greater than 30."
- 97 (3) In IBC, Section 1011.5.2, exception 3 is deleted and replaced with the following: " 3. In

98 Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group  
99 U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual  
100 dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches  
101 (203 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum  
102 winder tread depth at the walk line shall be 10 inches (254 mm), and the minimum  
103 winder tread depth shall be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1  
104 mm) but not more than 1.25 inches (32 mm) shall be provided on stairways with solid  
105 risers where the tread depth is less than 10 inches (254 mm)."

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

110 (5) IBC, Section 1025, is deleted.

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

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

113 **15A-3-202 . Amendments to Chapters 1 through 5 of IRC.**

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

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

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

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

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

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

- 132 (5) In IRC, Section R108.3, the following sentence is added at the end of the section: "The  
133 building official shall not request proprietary information."
- 134 (6) IRC, Section 109.1.5, is deleted and replaced with the following: "R109.1.5 Other  
135 inspections. In addition to the inspections listed in R109.1.1 through R109.1.4, the  
136 building official shall have the authority to inspect the proper installation of insulation.  
137 R109.1.5.1 Weather-resistant exterior wall envelope inspections. An inspection shall be  
138 made of the weather-resistant exterior wall envelope as required by Section R703.1 and  
139 flashings as required by Section R703.4 to prevent water from entering the  
140 weather-resistive barrier.R109.1.5.2 Fire-resistance-rated construction inspection. Where  
141 fire-resistance-rated construction is required between dwelling units or due to location  
142 on property, the building official shall require an inspection of such construction after  
143 lathing or gypsum board or gypsum panel products are in place, but before any plaster is  
144 applied, or before board or panel joints and fasteners are taped and finished."
- 145 (7) In IRC, Section R202, the following definition is added: "ACCESSORY DWELLING  
146 UNIT: A habitable living unit created within the existing footprint of a primary  
147 owner-occupied single-family dwelling."
- 148 (8) In IRC, Section R202, the definition for "Approved" is modified by adding the words  
149 "or independent third-party licensed engineer or architect and submitted to the building  
150 official" after the word "official."
- 151 (9) In IRC, Section R202, the definition for "Approved Agency" is modified by replacing  
152 the word "and" with "or."
- 153 (10) In IRC, Section 202, the definition for "Approved Source" is modified by adding the  
154 words "or licensed engineer or architect" after the word "official."
- 155 (11) In IRC, Section R202, the following definition is added: "CERTIFIED BACKFLOW  
156 PREVENTER ASSEMBLY TESTER: A person who has shown competence to test  
157 Backflow prevention assemblies to the satisfaction of the authority having jurisdiction  
158 under Utah Code, Subsection 19-4-104(4)."
- 159 (12) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced  
160 with the following: "CROSS CONNECTION. Any physical connection or potential  
161 connection or arrangement between two otherwise separate piping systems, one of  
162 which contains potable water and the other either water of unknown or questionable  
163 safety or steam, gas, or chemical, whereby there exists the possibility for flow from one  
164 system to the other, with the direction of flow depending on the pressure differential  
165 between the two systems (see "Backflow, Water Distribution")."

166 (13) In IRC, Section 202, the following definition is added: "DUAL SOURCE  
 167 CONNECTION. A pipe that is installed so that either the nonpotable (i.e. secondary)  
 168 irrigation water or the potable water is connected to a pressurized irrigation system at  
 169 one time, but not both at the same time; or a pipe that is installed so that either the  
 170 potable water or private well water is connected to a residence at one time, but not both  
 171 at the same time. The potable water supply line shall be protected by a reduced pressure  
 172 backflow preventer."

173 (14) In IRC, Section 202, the following definition is added: "ENERGY STORAGE  
 174 SYSTEM (ESS). One or more devices, assembled together, that are capable of storing  
 175 energy for supplying electrical energy at a future time."

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

181 (16) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced with  
 182 the following: "POTABLE WATER. Water free from impurities present in amounts  
 183 sufficient to cause disease or harmful physiological effects and conforming to the Utah  
 184 Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water  
 185 Quality Act, and the regulations of the public health authority having jurisdiction."

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

187 "TABLE R301.2 (3)

188 GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH

189 City/Town	County	Ground Snow Load (lb/ft <sup>2</sup> )	Elevation (ft)
190 Beaver	Beaver	35	5886
191 Brigham City	Box Elder	42	4423
192 Castle Dale	Emery	32	5669
193 Coalville	Summit	57	5581
194 Duchesne	Duchesne	39	5508
195 Farmington	Davis	35	4318
196 Fillmore	Millard	30	5138
197 Heber City	Wasatch	60	5604

198	Junction	Piute	27	6030
199	Kanab	Kane	25	4964
200	Loa	Wayne	37	7060
201	Logan	Cache	43	4531
202	Manila	Daggett	26	6368
203	Manti	Sanpete	37	5620
204	Moab	Grand	21	4029
205	Monticello	San Juan	67	7064
206	Morgan	Morgan	52	5062
207	Nephi	Juab	39	5131
208	Ogden	Weber	37	4334
209	Panguitch	Garfield	41	6630
210	Parowan	Iron	32	6007
211	Price	Carbon	31	5558
212	Provo	Utah	31	4541
213	Randolph	Rich	50	6286
214	Richfield	Sevier	27	5338
215	St. George	Washington	21	2585
216	Salt Lake City	Salt Lake	28	4239
217	Tooele	Tooele	35	5029
218	Vernal	Uintah	39	5384

219 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."

- 220 (18) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah Snow  
221 Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions  
222 identified in that table. Otherwise, for other locations in Utah, see Bean, B., Maguire,  
223 M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and  
224 Environmental Engineering Faculty Publications, Paper 3589,  
225 <http://utahsnowload.usu.edu/>, for ground snow load values."
- 226 (19) In IRC, Section R302.2, the following sentence is added at the end of the paragraph:  
227 "When an access/maintenance agreement or easement is in place, plumbing, mechanical  
228 ducting, schedule 40 steel gas pipe, and electric service conductors including feeders,  
229 are permitted to penetrate the common wall at grade, above grade, or below grade."
- 230 (20) In IRC, Section R302.3, a new exception 3 is added as follows: "3. Accessory dwelling  
231 units separated by walls or floor assemblies protected by not less than 1/2-inch (12.7  
232 mm) gypsum board or equivalent on each side of the wall or bottom of the floor  
233 assembly are exempt from the requirements of this section."
- 234 (21) In IRC, Section R302.5.1, the last sentence is deleted.
- 235 (22) IRC, Section R302.13, is deleted.
- 236 (23) In IRC, Section R303.4, the following exception is added: "Exception: Dwelling units  
237 tested in accordance with Section N1102.4.1.2 (R402.4.1.2) which has an air tightness of  
238 3.0 ACH (50) or greater do not require mechanical ventilation."
- 239 (24) In IRC, Section R310.1, all words in the last sentence after "or to a yard or court", are  
240 deleted, and Exception 3 of this section is deleted.
- 241 (25) In IRC, Section R310.7, in the exception, the words "or accessory dwelling units" are  
242 added after the words "sleeping rooms".
- 243 (26) IRC, Sections R311.7.45 through R311.7.5.3, are deleted and replaced with the following:  
244 "R311.7.45.1 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser height shall  
245 be 8 inches (203 mm). The riser shall be measured vertically between leading edges of the  
246 adjacent treads. The greatest riser height within any flight of stairs shall not exceed the  
247 smallest by more than 3/8 inch (9.5 mm).
- 248 R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The  
249 tread depth shall be measured horizontally between the vertical planes of the foremost  
250 projection of adjacent treads and at a right angle to the tread's leading edge. The greatest tread  
251 depth within any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm).  
252 Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at  
253 a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall

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

257 R311.7.5.3 Nosing. The radius of curvature at the leading edge of the tread shall be no  
258 greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than  
259 1 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
260 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)  
261 between two stories, including the nosing at the level of floors and landings. Beveling of  
262 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the  
263 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51  
264 rad) from the vertical. Open risers are permitted, provided that the opening between treads  
265 does not permit the passage of a 4-inch diameter (102 mm) sphere.

266 Exceptions.

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

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

270 (27) IRC, Section R312.2, is deleted.

271 (28) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the following:

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

275 (29) In IRC, Section R314.2.2, the words "accessory dwelling units," are added after the  
276 words "Where alterations, repairs."

277 (30) In IRC, Section R315.2.2, the words "accessory dwelling units," are added after the  
278 words "Where alterations, repairs."

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

281 (32) A new IRC, Section R328.12, is added as follows:

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

286 (33) In IRC, Section 403.1.3.5.3, an exception is added as follows: "Exception: Vertical  
287 steel in footings shall be permitted to be located while concrete is still plastic and before

288 it has set. Where vertical steel resists placement or the consolidation of concrete around  
289 steel is impeded, the concrete shall be vibrated to ensure full contact between the vertical  
290 steel and concrete."

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

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

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

305 (37) In IRC, Section R405.1, a second exception is added as follows: "Exception: When a  
306 geotechnical report has been provided for the property, a drainage system is not required  
307 unless the drainage system is required as a condition of the geotechnical report. The  
308 geotechnical report shall make a recommendation regarding a drainage system."

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

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

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

316 **15A-3-206 . Amendments to Chapters 36, 37, 39, and 44 and Appendix F of IRC.**

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

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

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

322 "3601.7 Maximum number of disconnects. The service disconnecting means shall consist of  
 323 not more than six switches or six sets of circuit breakers mounted in a single enclosure or in a  
 324 group of separate enclosures."

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

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

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

332 "E3901.4.2 Island and Peninsular Countertops and Work Spaces. Receptacle outlets, if  
 333 installed to serve an island or peninsular countertop or work surface, shall be installed in  
 334 accordance with E3901.4.3. If a receptacle outlet is not provided to serve an island or  
 335 peninsular countertop or work surface, provisions shall be provided at the island or peninsula  
 336 for future addition of a receptacle outlet to serve the island or peninsular countertop or work  
 337 surface."

338 [(5)] (6) IRC, Section E3901.4.3, is deleted and replaced with the following:

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

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

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

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

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

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

351 [(6)] (7) In IRC, Section 3902.1, after the word "125-volt" add "single phase 15 and 20  
 352 ampere" and strike the words "through 250 volt."

353 [(7)] (8) In IRC, Section 3902.2, after the word "125-volt" add "single phase 15 and 20  
 354 ampere" and strike the words "through 250 volt."

355 [(8)] (9) In IRC, Section 3902.3, after the word "125-volt" add "single phase 15 and 20

356 ampere" and strike the words "through 250 volt."  
357 [(9)] (10) In IRC, Section 3902.4, after the word "125-volt" add "single phase 15 and 20  
358 ampere" and strike the words "through 250 volt."  
359 [(10)] (11) In IRC, Section 3902.5, after the word "125-volt" add the words "single phase 15  
360 and 20 ampere in unfinished portions of the basement shall have ground-fault  
361 circuit-interrupter protection for personnel" and delete the rest of the section.  
362 [(11)] (12) In IRC, Section 3902.6, after the word "125-volt" add "single phase 15 and 20  
363 ampere" and strike the words "through 250 volt."  
364 [(12)] (13) In IRC, Section 3902.7, after the word "125-volt" add "single phase 15 and 20  
365 ampere" and strike the words "through 250 volt."  
366 [(13)] (14) In IRC, Section 3902.8, after the word "125-volt" add "single phase 15 and 20  
367 ampere" and strike the words "through 250 volt."  
368 [(14)] (15) In IRC, Section 3902.9, after the word "125-volt" add "single phase 15 and 20  
369 ampere" and strike the words "through 250 volt."  
370 [(15)] (16) IRC, Section 3902.10, is deleted.  
371 [(16)] (17) In IRC, Section 3902.12, after the word "125-volt" add "single phase 15 and 20  
372 ampere" and strike the words "through 250 volt."  
373 [(17)] (18) In IRC, Section 3902.13, after the word "125-volt" add "single phase 15 and 20  
374 ampere" and strike the words "through 250 volt."  
375 [(18)] (19) IRC, Section 3902.15, Crawl space lighting outlets, is deleted.  
376 [(19)] (20) IRC, Section 3902.16, Equipment requiring servicing, is deleted.  
377 [(20)] (21) IRC Section 3902.17, Outdoor outlets, is deleted.  
378 [(21)] (22) IRC, Section 3902.19, Location of arc-fault circuit interrupters, is deleted.  
379 [(22)] (23) IRC, Section E3902.20, Arc-fault circuit interrupter protection, is deleted.  
380 [(23)] (24) IRC, Section E3902.21, Arc-fault circuit interrupter protection for branch circuit  
381 extensions or modification, is deleted.  
382 [(24)] (25) IRC, Section 4002.11, is deleted and replaced with the following: "4002.11  
383 Bathtub and Shower Space. Receptacles shall not be installed within or directly over a  
384 bathtub or shower stall."  
385 [(25)] (26) IRC, Chapter 44, is amended by deleting the standard for "ANCE."  
386 [(26)] (27) In IRC, Chapter 44, the standard for ASHRAE is amended by changing  
387 "34-2013" to "34-2019."  
388 [(27)] (28) In IRC, Chapter 44, the standard for CSA, is amended by changing the:  
389 (a) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA

390 60335-2-40-2019"; and  
 391 (b) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
 392 Requirements for Motor-Compressors" to "Standard for Household and Similar  
 393 Electrical Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air  
 394 Conditioners and Dehumidifiers-3rd Edition."

395 [(28)] (29) In IRC, Chapter 44, the standard for UL, is amended by changing the:

- 396 (a) standard reference number "1995-2011" to "1995-2015";
- 397 (b) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA  
 398 60335-2-40-2019"; and
- 399 (c) title "Standard for Household and Similar Electrical Appliances, Part 2: Particular  
 400 Requirements for Motor-Compressors" to "Standard for Household and Similar  
 401 Electrical Appliances, Part 2-40, Requirements for Electric Heat Pumps, Air  
 402 Conditioners and Dehumidifiers-3rd Edition."

403 [(29)] (30) In IRC, Chapter 44, the standard for ANSI/RESNET/ICC 201-2019 Section 4.4.4 is  
 404 added as follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and  
 405 Air Conditioners with the more recent Manufacturers Equipment Performance Ratings (HSPF2  
 406 or SEER2) available, and HSPF and SEER are not available, these ratings shall be converted  
 407 to HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion factors in Table  
 408 4.4.4.1(1). If the type of equipment is not determined, the conversion shall default to the  
 409 Ducted Split System factors. All calculations, including Equation 4.1-1a shall use HSPF or  
 410 SEER values as made available by the Manufacturer or converted as specified in this section.  
 411 Table 4.4.4.1(1) SEER2 and HSPF2 Conversion Factors<sup>3</sup>.

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"

419 [(30)] (31) IRC, Chapter 44, is amended by adding the following reference standard:

"Standard reference number	Title	Referenced in code section number

422	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"
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423 ~~[(31)]~~ (32) IRC, Chapter 44, is amended by adding the following reference standard: "UL  
 424 9540-20: Energy Storage Systems and Equipment; R328.1, R328.2, and R328.6."

425 ~~[(32)]~~ (33)(a) When passive radon controls or portions thereof are voluntarily installed,  
 426 the voluntary installation shall comply with Appendix F of the IRC.

427 (b) An additional inspection of a voluntary installation described in Subsection ~~[(27)(a)]~~  
 428 ~~(28)(a)~~ is not required.

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

430 **15A-3-601 . General provisions.**

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

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

435 (2) In NEC, Section 210.8(A), the words "through 250-volt" are deleted.

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

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

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

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

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

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

444 ~~[(5)]~~ (8) NEC, Sections 210.52(C) number (2) and number (3) are deleted and replaced with the  
 445 following:

446 "210.52(C)(2) Island and peninsular countertops and Work Surfaces. Receptacle outlets,  
 447 if installed to serve an island or peninsular countertop or work surface, shall be installed in  
 448 accordance with 210.52(C)(3). If a receptacle outlet is not provided to serve an island or  
 449 peninsular countertop or work surface, provisions shall be provided at the island or peninsula  
 450 for future addition of a receptacle outlet to serve the island or peninsular countertop or work  
 451 surface.

452 210.2(C)(3) Receptacle outlet location. Receptacle outlets shall be located in one or

453 more of the following:

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

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

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

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

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

467 [~~(6)~~] (9) NEC, Section 210.12, is deleted.

468 [~~(7)~~] (10) NEC, Section 210.65, is deleted.

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

470 (12) NEC, Section 225.42 is deleted.

471 [~~(8)~~] (13) NEC, Section 230.67, is deleted.

472 [~~(9)~~] (14) NEC, Section 230.71, is deleted and replaced with the following:

473 "230.71 Maximum Number of Disconnects.

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

482 (1) Power monitoring equipment;

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

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

485 (4) Power-operable service disconnecting.

486 (B) Single-Pole Units. Two or three single-pole switches or breakers, capable of individual

487 operation, shall be permitted on multiwire circuits, one pole for each ungrounded conductor, as  
488 one multipole disconnect, provided they are equipped with identified handle ties or a master  
489 handle to disconnect all conductors of the service with no more than six operations of the hand.

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

491 ~~[(10)]~~ (15) NEC, Section 314.27(C), is deleted and replaced with the following: "314.27(C)

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

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

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

503 ~~[(11) NEC, Section 406.9(C), is deleted and replaced with the following: "406.9(C) Bathtub~~  
504 ~~and Shower Space. Receptacles shall not be installed within or directly over a bathtub or~~  
505 ~~shower stall."]~~

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

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

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

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

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

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

514 "700.3(A) Conductor Witness Test.

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

517 Section 6. **Effective Date.**

518 This bill takes effect on May 7, 2025.