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

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; and
- makes technical changes.

Money Appropriated in this Bill:

None

Other Special Clauses:

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

Utah Code Sections affected by Coordination Clause:

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

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

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

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

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

(d) the 2021 edition of the International Plumbing Code, issued by the International Code Council;

(e) the 2021 edition of the International Mechanical Code, issued by the International Code Council;

(f) the 2021 edition of the International Fuel Gas Code, issued by the International Code Council;

(g) the [~~2020~~] 2023 edition of the National Electrical Code, issued by the National Fire Protection Association;

(h) the 2021 edition of the International Energy Conservation Code, issued by the International Code Council;

(i) the 2021 edition of the International Existing Building Code, issued by the International Code Council;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) A new IBC Section 1010.2.14.1 is added as follows: "1010.2.14.1 Blended assisted living facilities. In occupancy Group I-1, Condition 2 or Group I-2, a Type-II assisted living facility licensed by the Department of Health and Human Services for residents with Alzheimer's or dementia, and having a controlled egress locking system to prevent operation from the egress side shall be permitted to also house residents without a clinical need for their containment where all of the following provisions are met:

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

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

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

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

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

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

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

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

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

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

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

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

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

[~~(2)~~] (3) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2 Physical change for bedroom window egress. A structure whose egress window in an existing bedroom is smaller than required by this code, and that complied with the construction code in effect at the time that the bedroom was finished, is not required to undergo a physical change to conform to this code if the change would compromise the

structural integrity of the structure or could not be completed in accordance with other applicable requirements of this code, including setback and window well requirements."

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

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

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

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

[~~(5)~~] (6) In IRC, Section R108.3, the following sentence is added at the end of the section: "The building official shall not request proprietary information."

[~~(6)~~] (7) In IRC, Section 109.1.5, is deleted and replaced with the following: "R109.1.5 Other inspections. In addition to the inspections listed in R109.1.1 through R109.1.4, the building official shall have the authority to inspect the proper installation of insulation. R109.1.5.1 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section R703.1 and flashings as required by Section R703.4 to prevent water from entering the weather-resistive barrier.R109.1.5.2 Fire-resistance-rated construction inspection. Where fire-resistance-rated construction is required between dwelling units or due to location on property, the building official shall require an inspection of such construction after lathing or gypsum board or gypsum panel products are in place, but before any plaster is applied, or before board or panel joints and fasteners are taped and finished."

[~~(7)~~] (8) In IRC, Section R202, the following definition is added: "ACCESSORY DWELLING UNIT: A habitable living unit created within the existing footprint of a primary owner-occupied single-family dwelling."

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

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

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

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

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

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

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

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

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

[~~(17)~~] (18) In 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/ft2)	Elevation (ft)
Beaver	Beaver	35	5886
Brigham City	Box Elder	42	4423
Castle Dale	Emery	32	5669
Coalville	Summit	57	5581
Duchesne	Duchesne	39	5508
Farmington	Davis	35	4318
Fillmore	Millard	30	5138
Heber City	Wasatch	60	5604
Junction	Piute	27	6030
Kanab	Kane	25	4964
Loa	Wayne	37	7060
Logan	Cache	43	4531
Manila	Daggett	26	6368
Manti	Sanpete	37	5620
Moab	Grand	21	4029
Monticello	San Juan	67	7064
Morgan	Morgan	52	5062
Nephi	Juab	39	5131
Ogden	Weber	37	4334
Panguitch	Garfield	41	6630
Parowan	Iron	32	6007
Price	Carbon	31	5558
Provo	Utah	31	4541
Randolph	Rich	50	6286
Richfield	Sevier	27	5338
St. George	Washington	21	2585
Salt Lake City	Salt Lake	28	4239

Tooele	Tooele	35	5029
Vernal	Uintah	39	5384

Note: To convert lb/ft2 to kN/m2, 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."

[~~(18)~~] (19) In IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions identified in that table. Otherwise, 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."

[~~(19)~~] (20) In IRC, Section R302.2, the following sentence is added at the end of the paragraph: "When an access/maintenance agreement or easement is in place, plumbing, mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including feeders, are permitted to penetrate the common wall at grade, above grade, or below grade."

[~~(20)~~] (21) In IRC, Section R302.3, a new exception 3 is added as follows: "3. Accessory dwelling units separated by walls or floor assemblies protected by not less than 1/2-inch (12.7 mm) gypsum board or equivalent on each side of the wall or bottom of the floor assembly are exempt from the requirements of this section."

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

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

[~~(23)~~] (24) In IRC, Section R303.4, the following exception is added: "Exception: Dwelling units tested in accordance with Section N1102.4.1.2 (R402.4.1.2) which has an air tightness of 3.0 ACH (50) or greater do not require mechanical ventilation."

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

[~~(25)~~] (26) In IRC, Section R310.7, in the exception, the words "or accessory dwelling

units" are added after the words "sleeping rooms".

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

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

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

Exceptions.

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

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

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

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

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

the words "Where alterations, repairs."

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

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

[~~(32)~~] (33) A new IRC, Section R328.12, is added as follows:

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

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

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

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

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

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

[~~(38)~~] (39) In IRC, Section R506.2.3, the words "10-mil (0.010 inch; 0.25 mm)" are deleted

and replaced with "6-mil (0.006 inch; 0.152 mm)" and the words "conforming to ASTM E1745 Class A requirements" are deleted.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[~~(17)~~] (18) In IRC, Section 3902.13, after the word "125-volt" add "single phase 15 and 20 ampere" and strike the words "through 250 volt."

[~~(18)~~] (19) IRC, Section 3902.15, Crawl space lighting outlets, is deleted.

[~~(19)~~] (20) IRC, Section 3902.16, Equipment requiring servicing, is deleted.

[~~(20)~~] (21) IRC Section 3902.17, Outdoor outlets, is deleted.

[~~(21)~~] (22) IRC, Section 3902.19, Location of arc-fault circuit interrupters, is deleted.

[~~(22)~~] (23) IRC, Section E3902.20, Arc-fault circuit interrupter protection, is deleted.

[~~(23)~~] (24) IRC, Section E3902.21, Arc-fault circuit interrupter protection for branch circuit extensions or modification, is deleted.

[~~(24)~~] (25) IRC, Section 4002.11, is deleted and replaced with the following: "4002.11 Bathtub and Shower Space. Receptacles shall not be installed within or directly over a bathtub or shower stall."

[~~(25)~~] (26) IRC, Chapter 44, is amended by deleting the standard for "ANCE."

[~~(26)~~] (27) In IRC, Chapter 44, the standard for ASHRAE is amended by changing "34-2013" to "34-2019."

[~~(27)~~] (28) In IRC, Chapter 44, the standard for CSA, is amended by changing the:

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

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

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

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

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

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

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

[~~(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"

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

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

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

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

15A-3-601 . General provisions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(11) NEC, Section 215.18, is deleted.

(12) NEC, Section 225.42 is deleted.

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

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

"230.71 Maximum Number of Disconnects.

(A) General. The service disconnecting means for each service permitted by 230.2, or for

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

(1) Power monitoring equipment;

(2) Surge-protective device(s);

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

(4) Power-operable service disconnecting.

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

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

[~~(10)~~] (15) NEC, Section 314.27(C), is deleted and replaced with the following: "314.27(C) Boxes at Ceiling-Suspended (Paddle) Fan Outlets. Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported."

(16) In NEC, Section 334.24, the last sentence is deleted and replaced with the following: "For flat cables, the minor diameter dimension of the cable shall be used to determine the bending radius when bending on the flat side of the cable. For all other bends, the major diameter dimension shall be used."

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

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

(18) In NEC, Section 338.24, the last sentence is deleted and replaced with the following: "For flat cables, the minor diameter dimension of the cable shall be used to determine

the bending radius when bending on the flat side of the cable. For all other bends, the major diameter dimension shall be used."

(19) In NEC, Section 406.9(B) number (2), the following words are deleted: "be listed weather-resistant type, and installation shall".

(20) NEC, Section 700.3(A) is deleted and replaced with the following: "700.3(A) Conductor Witness Test.

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

Section 6. **Effective Date.**

This bill takes effect on May 7, 2025.

Section 7. **Coordinating H.B. 313 with H.B. 175.**

If H.B. 313, State Construction and Electrical Standards Amendments, and H.B. 175, Housing Construction Amendments, both pass and become law, the Legislature intends that, on May 7, 2025, the amendments to Section 15A-3-202 in H.B. 313 supersede the amendments to Section 15A-3-202 in H.B. 175.