

1 STATE CONSTRUCTION CODE MODIFICATIONS

2 2024 GENERAL SESSION

3 STATE OF UTAH

4 Chief Sponsor: Thomas W. Peterson

5 Senate Sponsor: _____

6
7 LONG TITLE

8 General Description:

9 This bill modifies State Construction Code.

10 Highlighted Provisions:

11 This bill:

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

17 Money Appropriated in this Bill:

18 None

19 Other Special Clauses:

20 None

21 Utah Code Sections Affected:

22 AMENDS:

- 23 15A-1-104, as enacted by Laws of Utah 2014, Chapter 197
- 24 15A-2-103, as last amended by Laws of Utah 2023, Chapters 160, 209
- 25 15A-3-105, as last amended by Laws of Utah 2023, Chapter 209
- 26 15A-3-202, as last amended by Laws of Utah 2023, Chapter 209
- 27 15A-3-203, as last amended by Laws of Utah 2023, Chapter 209



- 28 [15A-3-204](#), as last amended by Laws of Utah 2023, Chapter 209
- 29 [15A-3-205](#), as last amended by Laws of Utah 2023, Chapter 209
- 30 [15A-3-206](#), as last amended by Laws of Utah 2023, Chapter 209
- 31 [15A-3-401](#), as last amended by Laws of Utah 2019, Chapter 20
- 32 [15A-3-701](#), as last amended by Laws of Utah 2023, Chapter 209
- 33 [15A-3-801](#), as last amended by Laws of Utah 2023, Chapter 209
- 34 [58-55-102](#), as last amended by Laws of Utah 2023, Chapter 223

35 ENACTS:

36 [63N-3-13](#), Utah Code Annotated 1953

37 REPEALS:

- 38 [15A-6-101](#), as enacted by Laws of Utah 2016, Chapter 249
- 39 [15A-6-102](#), as last amended by Laws of Utah 2020, Chapter 136



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

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

43 **15A-1-104. Permit approval required -- Certificate of occupancy valid.**

44 (1) As used in this section:

- 45 (a) "Compliance agency" is as defined in Section [15A-1-202](#).
- 46 (b) "Project" is as defined in Section [15A-1-209](#).

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

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

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

53 (3) A municipality may not withhold a permit or project approval for a project because
54 of a noncomplying or non-conforming structure on the same property provided:

55 (a) it has been in place for a minimum of one year; and

56 (b) it does not pose an immediate health or life safety concerns.

57 (4) A municipality may not require additional permitting, engineering or inspections
58 for a non-conforming and non-complying structures after it has been in place for one year or

59 more if the work in question does not pose an immediate health or life safety concern.

60 (5) If a compliance agency or a representative of a compliance agency issues a
61 certificate of occupancy, the compliance agency may not withdraw the certificate of occupancy
62 or exert additional jurisdiction over the elements of the project for which the certificate was
63 issued unless additional changes or modifications requiring a building permit are made to
64 elements of the project after the certificate was issued.

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

66 **15A-2-103. Specific editions adopted of construction code of a nationally**
67 **recognized code authority.**

68 (1) Subject to the other provisions of this part, the following construction codes are
69 incorporated by reference, and together with the amendments specified in Chapter 3, Statewide
70 Amendments Incorporated as Part of State Construction Code, and Chapter 4, Local
71 Amendments Incorporated as Part of State Construction Code, are the construction standards to
72 be applied to building construction, alteration, remodeling, and repair, and in the regulation of
73 building construction, alteration, remodeling, and repair in the state:

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

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

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

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

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

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

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

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

- 90 ~~[(i) the residential provisions of the 2015 edition of the International Energy~~
 91 ~~Conservation Code, issued by the International Code Council;]~~
- 92 ~~[(j)]~~ (h) ~~[the commercial provisions of]~~ the 2021 edition of the International Energy
 93 Conservation Code, issued by the International Code Council;
- 94 ~~[(k)]~~ (i) the 2021 edition of the International Existing Building Code, issued by the
 95 International Code Council;
- 96 ~~[(l)]~~ (j) subject to Subsection 15A-2-104(2), the HUD Code;
- 97 ~~[(m)]~~ (k) subject to Subsection 15A-2-104(1), Appendix AE of the 2021 edition of the
 98 International Residential Code, issued by the International Code Council;
- 99 ~~[(n)]~~ (l) subject to Subsection 15A-2-104(1), the 2005 edition of the NFPA 225 Model
 100 Manufactured Home Installation Standard, issued by the National Fire Protection Association;
- 101 ~~[(o)]~~ (m) subject to Subsection (3), for standards and guidelines pertaining to plaster on
 102 a historic property, as defined in Section 9-8a-302, the U.S. Department of the Interior
 103 Secretary's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings;
 104 and
- 105 ~~[(p)]~~ (n) the residential provisions of the 2021 edition of the International Swimming
 106 Pool and Spa Code, issued by the International Code Council.
- 107 (2) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire
 108 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface Code,
 109 issued by the International Code Council, with the alternatives or amendments approved by the
 110 Utah Division of Forestry, Fire, and State Lands, as a construction code that may be adopted by
 111 a local compliance agency by local ordinance or other similar action as a local amendment to
 112 the codes listed in this section.
- 113 (3) The standards and guidelines described in Subsection ~~[(l)]~~~~[(o)]~~ (1)(n) apply only if:
- 114 (a) the owner of the historic property receives a government tax subsidy based on the
 115 property's status as a historic property;
- 116 (b) the historic property is wholly or partially funded by public money; or
- 117 (c) the historic property is owned by a government entity.
- 118 Section 3. Section 15A-3-105 is amended to read:
- 119 **15A-3-105. Amendments to Chapters 10 through 12 of IBC.**
- 120 (1) In IBC, Section 1010.2.4, number (2), the following is added at the end of the

121 sentence: "Blended assisted living facilities shall comply with Section 1010.2.14.1."

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

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

130 (b) all residents without a clinical need for their containment shall have the keys, codes
131 or other means necessary to operate the locking systems;

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

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

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

137 3. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in Group U
138 occupancies that are accessory to a Group R-3 occupancy, or accessory to individual dwelling
139 units in Group R-2 occupancies, the maximum riser height shall be 8 inches (203 mm) and the
140 minimum tread depth shall be 9 inches (229 mm). The minimum winder tread depth at the
141 walk line shall be 10 inches (254 mm), and the minimum winder tread depth shall be 6 inches
142 (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25 inches (32 mm)
143 shall be provided on stairways with solid risers where the tread depth is less than 10 inches
144 (254 mm)."

145 [~~(2)~~] (4) In IBC, Section 1011.11, a new exception 6 is added as follows: " 6. In
146 occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group U,
147 which are accessory to an occupancy in Group R-3, as applicable in Section 101.2, handrails
148 shall be provided on at least one side of stairways consisting of four or more risers."

149 [~~(3)~~] (5) IBC, Section 1025, is deleted.

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

151 **15A-3-202. Amendments to Chapters 1 through 5 of IRC.**

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

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

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

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

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

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

171 (4) In IRC, Section R105.2 a new exception is added: "11. Single level, non-connected
172 conex boxes."

173 [~~(4)~~ (5) In IRC, Section R108.3, the following sentence is added at the end of the
174 section: "The building official shall not request proprietary information."

175 [~~(5)~~ (6) IRC, Section 109.1.5, is deleted and replaced with the following: "R109.1.5
176 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the
177 weather-resistant exterior wall envelope as required by Section R703.1 and flashings as
178 required by Section R703.4 to prevent water from entering the weather-resistive barrier."

179 [~~(6)~~ (7) In IRC, Section R202, the following definition is added: "ACCESSORY
180 DWELLING UNIT: A habitable living unit created within the existing footprint of a primary
181 owner-occupied single-family dwelling."

182 [~~(7)~~ (8) In IRC, Section R202, the definition for "Approved" is modified by adding the

183 words "or independent third-party licensed engineer or architect and submitted to the building
184 official" after the word "official."

185 ~~[(8)]~~ (9) In IRC, Section R202, the definition for "Approved Agency" is modified by
186 replacing the word "and" with "or."

187 ~~[(9)]~~ (10) In IRC, Section 202, the definition for "Approved Source" is modified by
188 adding the words "or licensed engineer or architect" after the word "official."

189 ~~[(10)]~~ (11) In IRC, Section R202, the following definition is added: "CERTIFIED
190 BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to
191 test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction
192 under Utah Code, Subsection 19-4-104(4)."

193 ~~[(11)]~~ (12) In IRC, Section R202, the definition of "Cross Connection" is deleted and
194 replaced with the following: "CROSS CONNECTION. Any physical connection or potential
195 connection or arrangement between two otherwise separate piping systems, one of which
196 contains potable water and the other either water of unknown or questionable safety or steam,
197 gas, or chemical, whereby there exists the possibility for flow from one system to the other,
198 with the direction of flow depending on the pressure differential between the two systems (see
199 "Backflow, Water Distribution")."

200 ~~[(12)]~~ (13) In IRC, Section 202, the following definition is added: "DUAL SOURCE
201 CONNECTION. A pipe that is installed so that either the nonpotable (i.e. secondary) irrigation
202 water or the potable water is connected to a pressurized irrigation system at one time, but not
203 both at the same time; or a pipe that is installed so that either the potable water or private well
204 water is connected to a residence at one time, but not both at the same time. The potable water
205 supply line shall be protected by a reduced pressure backflow preventer."

206 ~~[(13)]~~ (14) In IRC, Section 202, the following definition is added: "ENERGY
207 STORAGE SYSTEM (ESS). One or more devices, assembled together, that are capable of
208 storing energy for supplying electrical energy at a future time."

209 ~~[(14)]~~ (15) In IRC, Section 202, in the definition for gray water a comma is inserted
210 after the word "washers"; the word "and" is deleted; and the following is added to the end: "and
211 clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible;
212 without objectionable odors; non-highly pigmented; and will not interfere with the operation of
213 the sewer treatment facility."

214 [~~(15)~~] (16) In IRC, Section R202, the definition of "Potable Water" is deleted and
 215 replaced with the following: "POTABLE WATER. Water free from impurities present in
 216 amounts sufficient to cause disease or harmful physiological effects and conforming to the
 217 Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water
 218 Quality Act, and the regulations of the public health authority having jurisdiction."

219 [~~(16)~~] (17) IRC, Figure R301.2 (3), is deleted and replaced with R301.2 (3) as follows:

"TABLE R301.2 (3)			
GROUND SNOW LOADS FOR SELECTED LOCATIONS IN UTAH			
City/Town	County	Ground Snow Load (lb/ft ²)	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

243	Parowan	Iron	32	6007
244	Price	Carbon	31	5558
245	Provo	Utah	31	4541
246	Randolph	Rich	50	6286
247	Richfield	Sevier	27	5338
248	St. George	Washington	21	2585
249	Salt Lake City	Salt Lake	28	4239
250	Tooele	Tooele	35	5029
251	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."

253 ~~[(17)]~~ (18) IRC, Section R301.6, is deleted and replaced with the following: "R301.6
 254 Utah Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the
 255 jurisdictions identified in that table. Otherwise, for other locations in Utah, see Bean, B.,
 256 Maguire, M., Sun, Y. (2018), "The Utah Snow Load Study," Utah State University Civil and
 257 Environmental Engineering Faculty Publications, Paper 3589, <http://utahsnowload.usu.edu/>, for
 258 ground snow load values."

259 ~~[(18)]~~ (19) In IRC, Section R302.2, the following sentence is added at the end of the
 260 paragraph: "When an access/maintenance agreement or easement is in place, plumbing,
 261 mechanical ducting, schedule 40 steel gas pipe, and electric service conductors including
 262 feeders, are permitted to penetrate the common wall at grade, above grade, or below grade."

263 ~~[(19)]~~ (20) In IRC, Section R302.3, a new exception 3 is added as follows: "3.
 264 Accessory dwelling units separated by walls or floor assemblies protected by not less than
 265 1/2-inch (12.7 mm) gypsum board or equivalent on each side of the wall or bottom of the floor

266 assembly are exempt from the requirements of this section."

267 [~~(20)~~] (21) In IRC, Section R302.5.1, the last sentence is deleted.

268 [~~(21)~~] (22) IRC, Section R302.13, is deleted.

269 [~~(22)~~] (23) In IRC, Section R303.4, the following exception is added: "Exception:
270 Dwelling units tested in accordance with Section N1102.4.1.2 (R402.4.1.2) which has an air
271 tightness of 3.0 ACH (50) or greater do not require mechanical ventilation."

272 (24) In IRC, Section R310.1, all words in the last sentence after "or to a yard or court",
273 are deleted.

274 [~~(23)~~] (25) In IRC, Section R310.7, in the exception, the words "or accessory dwelling
275 units" are added after the words "sleeping rooms".

276 [~~(24)~~] (26) IRC, Sections R311.7.45 through R311.7.5.3, are deleted and replaced with
277 the following: "R311.7.45.1 Stair treads and risers. R311.7.5.1 Riser height. The maximum
278 riser height shall be 8 inches (203 mm). The riser shall be measured vertically between leading
279 edges of the adjacent treads. The greatest riser height within any flight of stairs shall not
280 exceed the smallest by more than 3/8 inch (9.5 mm).

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

290 R311.7.5.3 Nosing. The radius of curvature at the leading edge of the tread shall be no
291 greater than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1
292 1/4 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing
293 projection shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm)
294 between two stories, including the nosing at the level of floors and landings. Beveling of
295 nosing shall not exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the
296 underside of the leading edge of the tread above at an angle not more than 30 degrees (0.51 rad)

297 from the vertical. Open risers are permitted, provided that the opening between treads does not
298 permit the passage of a 4-inch diameter (102 mm) sphere.

299 Exceptions.

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

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

303 [~~25~~] (27) IRC, Section R312.2, is deleted.

304 [~~26~~] (28) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the
305 following: "R313.1 Design and installation. When installed, automatic residential fire
306 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and
307 installed in accordance with Section P2904 or NFPA 13D."

308 [~~27~~] (29) In IRC, Section R314.2.2, the words "or accessory dwelling units" are
309 added after the words "sleeping rooms".

310 [~~28~~] (30) In IRC, Section R315.2.2, the words "or accessory dwelling units" are
311 added after the words "sleeping rooms".

312 [~~29~~] (31) In IRC, Section 315.3, the following words are added to the first sentence
313 after the word "installed": "on each level of the dwelling unit and."

314 [~~30~~] (32) A new IRC, Section R328.12, is added as follows:

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

319 [~~31~~] (33) In IRC, Section 403.1.3.5.3, an exception is added as follows: "Exception:
320 Vertical steel in footings shall be permitted to be located while concrete is still plastic and
321 before it has set. Where vertical steel resists placement or the consolidation of concrete around
322 steel is impeded, the concrete shall be vibrated to ensure full contact between the vertical steel
323 and concrete."

324 [~~32~~] (34) In IRC, Section R403.1.6, a new Exception 3 is added as follows: "3.
325 When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be
326 placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm)
327 from each end of each plate section at interior bearing walls, interior braced wall lines, and at

328 all exterior walls."

329 [~~(33)~~] (35) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2
330 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816
331 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located
332 not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,
333 interior braced wall lines, and at all exterior walls."

334 [~~(34)~~] (36) In IRC, Section R404.1, a new exception is added as follows: "Exception:
335 As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and
336 masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and
337 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."

338 [~~(35)~~] (37) In IRC, Section R405.1, a second exception is added as follows:
339 "Exception: When a geotechnical report has been provided for the property, a drainage system
340 is not required unless the drainage system is required as a condition of the geotechnical report.
341 The geotechnical report shall make a recommendation regarding a drainage system."

342 [~~(36)~~] (38) In IRC, Section R506.2.3, the words "10-mil (0.010 inch; 0.25 mm)" are
343 deleted and replaced with "6-mil (0.006 inch; 0.152 mm)" and the words "conforming to
344 ASTM E1745 Class A requirements" are deleted.

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

346 **15A-3-203. Amendments to Chapters 6 through 15 of IRC.**

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

348 (2) In IRC, Section N1101.4 (R102.1.1), a new section N1101.4.1 (R102.1.1) is added
349 as follows: "N1101.4.1 National Green Building Standard. Buildings complying with ICC
350 700-2020 National Green Building Standard and achieving the Gold rating level for the energy
351 efficiency category shall be deemed to exceed the energy efficiency required by this code. The
352 building shall also meet the requirements identified in table N1105.2 and the building thermal
353 envelope efficiency is greater than or equal to levels of efficiency and solar heat gain
354 coefficients (SHGC) in Tables N1102.2.2 and N1102.1.3 of the 2009 IRC."

355 [~~(2)~~] (3) In IRC, Section N1101.5 (R103.2), all words after the words "herein
356 governed." are deleted and replaced with the following: "Construction documents include all
357 documentation [~~required to be submitted in order to issue a building permit.~~] required for
358 building permits shall include only those items specified in Subsection 10-5-132(8) of the Utah

359 Municipal Code."

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

361 (a) The following is added at the end of the first sentence "or EN

362 14351-1:2006+A1:2010."

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

364 (c) The following sentence is added after the third sentence: "A conversion factor of

365 5.678 shall be used to convert from U values expressed in SI units: $()/53678=.$ "

366 (d) After "NFRC 200" the following words are added: "or EN

367 14351-1:2006+A1:2010," and in the sentence the word "accredited" is replaced with the word

368 "approved."

369 (e) The following new sentence shall be inserted immediately prior to the last sentence:

370 "Total Energy Transmittance values may be substituted for SHGC, and Luminous

371 Transmission values may be substituted for VT."

372 ~~[(3)]~~ (5) In IRC, Section N1101.12 (R303.3), all wording after the first sentence is

373 deleted. [(4) In IRC, Section N1101.13 (R401.2), add Exception as follows:]

374 ["2. Exception: A project complies if the project demonstrates compliance, using the
375 software RESCheck 2012 Utah Energy Conservation Code, of:]

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

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

380 [(c) after January 1, 2021, "5 percent better than code.""] (5) In IRC, Table N1102.2
381 (R402.1.2), in the column titled MASS WALL R-VALUE, a new footnote j is added as
382 follows:]

383 ["j. Log walls complying with ICC400 and with a minimum average wall thickness of
384 5 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a
385 .31 U-factor or lower, minimum heating equipment efficiency is 90 AFUE (gas) or 84 AFUE
386 (oil), and all other component requirements are met."]

387 (6) In IRC, Section N1101.13 (R401.2), in the first sentence, the words "Section
388 N1101.13.5 and" are deleted.

389 (7) In IRC, Section N1101.13.5 (R401.2.5) is deleted.

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

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

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

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

395 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with
396 0.32; and

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

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

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

401 (i) in the row titled "Climate Zone 3" delete 0.026 and replace it with 0.033;

402 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.024 and replace it with
403 0.030; and

404 (iii) in the row titled "Climate Zone 6" delete 0.024 and replace it with 0.030;

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

406 (i) in the row titled "Climate Zone 3" delete 0.060 and replace it with 0.065;

407 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.045 and replace it with
408 0.065; and

409 (iii) in the row titled "Climate Zone 6" delete 0.045 and replace it with 0.065;

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

411 (i) in the row titled "Climate Zone 5" and Marine 4" delete 0.050 and replace it with
412 0.075; and

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

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

415 (i) in the row titled Climate "Zone 5 and Marine 4" delete 0.055 and replace it with
416 0.078; and

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

418 [~~(6)~~] (10) In IRC, Table N1102.1.3(R402.1.3), the following changes are made:

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

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

424 (b) add a new footnote "k" as follows: "k. Log walls complying with ICC400 and with
425 a minimum average wall thickness of 5 inches or greater shall be permitted in Zones 5 through
426 8 when overall window glazing has 0.30 U -factor or lower, minimum heating equipment
427 efficiency is for gas 95 AFUE, or for oil, 84 AFUE, and all other components requirements are
428 met."

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

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

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

432 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with
433 0.32; and

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

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

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

438 (i) in the row titled "Climate Zone 3" delete 49 and replace it with 32;

439 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 60 and replace it with 38;

440 and

441 (iii) in the row titled "Climate Zone 6" delete 60 and replace it with 38;

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

443 (i) in the row titled "Climate Zone 3" delete all values and replace with 19+ Oci or
444 11+5ci or 015ci;

445 (ii) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
446 19+Oci or 13+5ci or 0+15ci; and

447 (iii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or
448 13+5ci or 0+15ci;

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

450 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
451 15+Oci or 0+11ci or 11+5ci; and

452 (ii) in the row titled "Climate Zone 6" delete all values and replace with 19+Oci or
453 0+13ci or 11+5ci;

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

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

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

457 and

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

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

460 15+ Oci or 0 + 11ci or 11 +5ci; and

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

462 + 13ci or 0 + 11 + 5 ci.

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

464 "1102.1.5.1 (R402.1.5.1) RESCheck 2012 Utah Energy Conservation Code. Compliance with

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

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

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

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

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

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

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

472 N1102.1.3 (R402.1.3)."

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

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

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

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

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

479 following conditions are met:

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

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

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

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

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

492 ~~[(7)]~~ (14) In IRC, Section N1102.2.9.1 (R402.2.9.1) the numeral (i) is added before the
493 words "cut at a 45 degree" and the following is added after the words "exterior wall": "or (ii)
494 lowered from top of slab 4" when a 4" thermal break material such as, but not limited to, felt or
495 asphalt impregnated fiber board, with a minimum thickness of 1/4" is installed at the upper 4"
496 of slab".

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

499 ~~[(8)]~~ (16) In IRC, Section N1102.4.1.1 (R402.4.1.1), the last sentence is deleted and
500 replaced with the following: "Where allowed by the code official, the builder may certify
501 compliance to components criteria for items which may not be inspected during regularly
502 scheduled inspections."

503 ~~[(9)]~~ (17) In IRC, Table N1102.4.1.1 (R402.4.1.1) in the column titled
504 "COMPONENT, the following changes are made:

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

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

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

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

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

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

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

517 (b) The following sentence is ~~[inserted after the first sentence: "A multi-family~~
518 ~~dwelling and townhouse shall be tested and verified as having an air leakage rate of not~~
519 ~~exceeding five air changes per hour." (c) In the third sentence, the word "third" is deleted. (d)~~
520 ~~The following sentence is inserted after the third sentence:]~~ added after the fourth sentence:
521 "The following parties shall be approved to conduct testing: Parties certified by BPI or
522 RESNET, or licensed contractors who have completed training provided by Blower Door Test
523 equipment manufacturers or other comparable training."

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

525 ~~[(10)]~~ (19) In IECC, Section R402.4.1.3 the following changes are made:

526 (a) In the first sentence, the words "5.0 air changes per hour in Climate Zones 0, 1 and
527 2, and 3.0" are deleted and replaced with "4.0", and the words "in Climate Zone 3 through 8"
528 are deleted.

529 (b) In the first sentence of the Exception, "0.28" is replaced with "5.0 air changes per
530 hour or 0.30."

531 (c) In Number 2 the words "of conditioned floor area" are inserted before the words "or
532 smaller."

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

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

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

543 (a) on or after January 1, 2017, and before January 1, 2019, with the following:
544 "Exception: The duct air leakage test is not required for systems with all air handlers and at

545 least 65% of all ducts (measured by length) located entirely within the building thermal
546 envelope.";

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

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

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

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

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

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

562 ~~[(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to~~
563 ~~8 and the number 113.3 is changed to 226.5;]~~

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

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

568 ~~(23) IRC Section N1103.3.3.1 (R403.3.3.1) is deleted.~~

569 ~~[(13)] (24) In IRC, Section N1103.3.5 (R403.3.5), the [words "or plenums" are~~
570 ~~deleted.] the following changes are made:~~

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

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

576 (i) Parties certified by BPT or RESNET;

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

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

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

582 (a) In Subsection 1:

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

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

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

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

587 (b) in Subsection 2:

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

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

590 (c) Subsection 3 is deleted.

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

592 (27) In IRC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added
593 at the beginning of the first sentence.

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

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

596 [~~(15)~~] (29) IRC, Section [N1103.6.1 (R403.6.1)] N1103.6.2 (R403.6.2), is deleted and
597 replaced with the following: ["N1103.6.1 (R403.6.1)] "N1103.6.2 (R403.6.2) Whole-house
598 mechanical ventilation system fan efficacy. Fans used to provide whole-house mechanical
599 ventilation shall meet the efficacy requirements of Table [N1103.6.1 (R403.6.1)] N1103.6.2
600 (R403.6.2).

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

604 [~~(16)~~] (30) In IRC, Section [N1103.6.1 (R403.6.1);] N1103.6.2 (R403.6.2), the table is
605 deleted and replaced with the following:

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

607 MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any"

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

616 ["TABLE N1106.4 (R406.4)

617 [MAXIMUM ENERGY RATING INDEX]

[CLIMATE ZONE]	[ENERGY RATING INDEX]
[3]	[65]
[5]	[69]
[6]	[68 ^u]

622 (31) IRC, Section N1103.6.3 (R403.6.3) is deleted.

623 [~~(18)~~] (32) In IRC, Section N1103.7 (R403.7) the word "approved" is deleted in the
624 first sentence and the following is added after the word "methodologies"[;]: "complying with
625 N1103.7.1(R403.7.1)".

626 [~~(19)~~] (33) A new IRC, Section N1103.7.1(R403.7.1) is added as follows: "N1103.7.1
627 Qualifications. An individual performing load calculations shall be qualified by completing
628 HVAC training from one of the following:

- 629 1. HVAC load calculation education from ACCA;
- 630 2. A recognized educational institution;
- 631 3. HVAC equipment manufacturer's training; or
- 632 4. Other recognized industry certification."

633 [~~(20)~~ In IRC, Section M1307.2, the words "In Seismic Design Categories D0, D1, and
634 D2, and in townhouses in Seismic Design Category C", are deleted, and in Subparagraph 1, the

635 ~~last sentence is deleted.]~~

636 ~~[(21)]~~ (34) In IRC, Section N1104.1 (R404.1), the word "All" is replaced with "Not
637 less than 90 percent of the lamps in".

638 (35) IRC, Section N1104.1.1 (R404.1.1) is deleted.

639 (36) IRC, Section N1104.2 (R404.2) is deleted.

640 (37) IRC, Section N1104.3 (R404.3) is deleted.

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

642 (a) In Subsection 3, the words "approved by the code official" are deleted; and

643 (b) In Subsection 3, the following words are added at the end of the sentence: "when
644 applicable and readily available".

645 (39) In IRC, Section N1106.3 (R406.3) "Building thermal envelope" is deleted, and
646 replaced with "Building thermal envelope and on-site renewables. The proposed total building
647 thermal envelope UA, which is the sum of U-factor times assembly area, shall be less than or
648 equal to the building thermal envelope UA using the prescriptive U-factors from Table
649 N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The area-weighted maximum
650 fenestration SHGC permitted in Climate Zones 0 through 3 shall be: $0.30 \times U_{\text{Proposed design}}$
651 $= 1.15 \times U_{\text{Prescriptive reference design}}$ (Equation 11-4)."

652 (40) In IRC, Section N1106.3.1 (R406.3.1) is deleted.

653 (41) In IRC, Section N1106.3.2 (R403.3.2) is deleted.

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

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

658 (b) In equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:
659 " Q_{tot} "; and

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

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

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

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

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

666 (44) In IRC, Section N1108 (R408) is deleted.

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

669 ~~[(22)]~~ (46) A new IRC, Section M1401.3.1, is added as follows: "M1401.3.1
670 Qualifications. An individual performing load calculations shall be qualified by completing
671 HVAC training from one of the following:

- 672 1. HVAC load calculation education from ACCA;
- 673 2. A recognized educational institution;
- 674 3. HVAC equipment manufacturer's training; or
- 675 4. Other recognized industry certification."

676 ~~[(23)]~~ (47) In IRC, Section M1402.1, the following is added at the end of the second
677 sentence: "or UL/CSA 60335-2-40."

678 ~~[(24)]~~ (48) In IRC, Section M1403.1, the characters "/ANCE" are deleted.

679 ~~[(25)]~~ (49) IRC, Section M1411.9, is deleted.

680 ~~[(26)]~~ (50) In IRC, Section M1412.1, the characters "/ANCE" are deleted.

681 ~~[(27)]~~ (51) In IRC, Section M1413.1, the characters "/ANCE" are deleted.

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

683 **15A-3-204. Amendments to Chapters 16 through 25 of IRC.**

684 (1) In IRC, Section M1602.2, a new exception is added at the end of Item 8 as follows:
685 "Exception: The discharge of return air from an accessory dwelling unit into another dwelling
686 unit, or into an accessory dwelling unit from another dwelling unit, is not prohibited."

687 (2) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.
688 Fuel gas services shall be in an approved location and/or provided with structures designed to
689 protect the fuel gas meter and surrounding piping from physical damage, including falling,
690 moving, or migrating ice and snow. If an added structure is used, it must provide access for
691 service and comply with the IBC or the IRC."

692 ~~[(3)]~~ IRC, Section P2503.2, is deleted and replaced with the following: "P2503.2
693 ~~Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure~~
694 ~~detector fire protection, double check detector fire protections, and spill-resistant vacuum~~
695 ~~breaker backflow preventer assemblies shall be tested at the time of installation, immediately~~
696 ~~after repairs or relocation and at least annually. The Utah Cross-Connection Control~~

697 ~~Commission has adopted the field test procedures published by the Manual of Cross~~
698 ~~Connection Control, Tenth Edition. This manual is published by the University of Southern~~
699 ~~California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges~~
700 ~~shall comply with ASSE 1064."]~~

701 (3) In IRC, Section 2503.5.1, #2 Air Test is deleted and replaced with the following:
702 "Where water is not available at the construction site or where freezing conditions limit the use
703 of water on the construction site, plastic drainage and vent pipe may be permitted to be tested
704 with air. The following procedures shall be followed:

705 (a) Contractor shall recognize that plastic is extremely brittle at lower temperatures and
706 can explode, causing serious injury or death.

707 (b) Contractor assumes all liability for injury or death to persons or damage to property
708 or for claims for labor and/or material arising from any alleged failure of the system during
709 testing with air or compressed gasses.

710 (c) Proper personal protective equipment, including safety eyewear and protective
711 headgear, should be worn by all individuals in any area where an air or gas test is being
712 conducted.

713 (d) Contractor shall take all precautions necessary to limit the pressure within the
714 plastic piping.

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

717 (f) The pressure gauge shall be monitored during the test period, which should not
718 exceed 15 minutes.

719 (g) At the conclusion of the test, the system shall be depressurized gradually, all
720 trapped air or gases should be vented, and test balls and plugs should be removed with
721 caution."

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

724 (5) IRC, Section P2503.8.2, is deleted and replaced with the following: "P2503.2
725 Testing. Reduced pressure principle, double check, pressure vacuum breaker, reduced pressure
726 detector fire protection, double check detector fire protections, and spill-resistant vacuum
727 breaker backflow preventer assemblies shall be tested at the time of installation, immediately

728 after repairs or relocation and at least annually. The Utah Cross-Connection Control
729 Commission has adopted the field test procedures published by the Manual of Cross
730 Connection Control, Tenth Edition. This manual is published by the University of Southern
731 California's Foundation for Cross-Connection Control and Hydraulic Research. Test gauges
732 shall comply with ASSE 1064."

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

734 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

735 (1) IRC, Section P2602.1, is deleted and replaced with the following: "P2602.1

736 General. The water-distribution system of any building or premises where plumbing fixtures
737 are installed shall be connected to a public water supply. Where a potable public water supply
738 is not available, individual sources of potable water supply shall be utilized provided that the
739 source has been developed in accordance with Utah Code Sections [73-3-1](#), [73-3-3](#), and
740 [73-3-25](#), as administered by the Department of Natural Resources, Division of Water Rights. In
741 addition, the quality of the water shall be approved by the local health department having
742 jurisdiction. The source shall supply sufficient quantity of water to comply with the
743 requirements of this chapter.

744 Every building in which plumbing fixtures are installed and all premises having
745 drainage piping shall be connected to a public sewer where the sewer is accessible and is
746 within 300 feet of the property line in accordance with Utah Code Section [10-8-38](#), or an
747 approved private sewage disposal system in accordance with Utah Administrative Code, Rule
748 R317-4, as administered by the Department of Environmental Quality, Division of Water
749 Quality.

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

754 (2) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water
755 supply. Where a potable public water supply is not available, individual sources of potable
756 water supply shall be utilized, provided that the source has been developed in accordance with
757 Utah Code, Sections [73-3-1](#) and [73-3-25](#), as administered by the Department of Natural
758 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by

759 the local health department having jurisdiction."

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

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

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

773 (6) In IRC, Section P2801.6.2, the following is added at the end of the section: "When
774 permitted by the code official, the pan drain may be directly connected to a soil stack, waste
775 stack, or branch drain. The pan drain shall be individually trapped and vented as required in
776 Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap
777 shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044, a barrier type
778 floor drain trap seal protection device meeting ASSE 1072, or a deep seal p-trap."

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

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

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

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

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

800 "P2902.1.[2] 1 General Installation Criteria.

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

805 P2902.1.2 Specific Installation Criteria.

806 P2902.1.[2] 3 Reduced Pressure Principle Backflow Prevention Assembly.

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

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

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

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

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

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

820 P2902.1.2.[2] 4 Double Check Valve Backflow Prevention Assembly.

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

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

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

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

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

831 P2902.1.2.[3] 5 Pressure Vacuum Break Assembly and Spill Resistant Pressure
832 Vacuum Breaker Assembly.

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

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

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

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

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

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

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

845 (a) In the row titled "Lavatory faucet" the text is deleted and replaced with "1.5 gpm at
846 60 psi".

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

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

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

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

858 (16) IRC, Section P2910.5, is deleted and replaced with the following:
859 "P2910.5 Potable water connections.

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

868 (17) IRC, Section P2910.9.5, is deleted and replaced with the following:
869 "P2910.9.5 Makeup water.

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

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

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

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

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

882 "P3009 Graywater soil absorption systems: Graywater recycling systems utilized for

883 subsurface irrigation for single-family residences shall comply with the requirements of Utah
884 Administrative Code, R317-401, Graywater Systems. Graywater recycling systems utilized for
885 subsurface irrigation for other occupancies shall comply with Utah Administrative Code,
886 R317-3, Design Requirements for Wastewater Collection, Treatment, and Disposal Systems,
887 and Utah Administrative Code, R317-4, Onsite Wastewater Systems."

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

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

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

- 898 (a) fixed outdoor electric deicing and snow-melting equipment;
- 899 (b) motors;
- 900 (c) generators;
- 901 (d) transformers;
- 902 (e) phase converters;
- 903 (f) stationary standby batteries;
- 904 (g) elevators;
- 905 (h) dumbwaiters;
- 906 (i) platform lifts;
- 907 (j) stairway chairlifts;
- 908 (k) electric vehicle power transfer systems;
- 909 (l) electric welders;
- 910 (m) audio signal processing, amplification, and reproduction equipment;
- 911 (n) information technology equipment;
- 912 (o) solar photovoltaic (PV) systems;
- 913 (p) optional standby systems;

914 (q) interconnected electric power production sources;

915 (r) energy storage systems; and

916 (s) energy management systems.

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

918 **15A-3-206. Amendments to Chapters 36, 37, 39, and 44 and Appendix F of IRC.**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

970 (20) IRC, Chapter 44, is amended by deleting the standard for "ANCE."

971 (21) In IRC, Chapter 44, the standard for ASHRAE is amended by changing "34-2013"
972 to "34-2019."

973 (22) In IRC, Chapter 44, the standard for CSA, is amended by changing the:

974 (a) standard reference number "UL/CSA/ANCE 60335-2-40-2012" to "UL/CSA
975 60335-2-40-2019"; and

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

980 (23) In IRC, Chapter 44, the standard for UL, is amended by changing the:

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

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

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

988 (24) In IRC, Chapter 44, the standard for ANSI/RESNET/ICC 201-2019 section 4.4.4
 989 is added follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and
 990 Air Conditioners with the more recent Manufacturers Equipment Performance Ratings (HSPF2
 991 or SEER2) available, and HSPF and SEER are not available, these ratings shall be converted to
 992 HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion factors in Table
 993 4.4.4.1(1). If the type of equipment is not determined, the conversion shall default to the
 994 Ducted Split System factors. All calculations, including Equation 4.1-1a shall use HSPF or
 995 SEER values as made available by the Manufacturer or converted as specified in this section.

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

<u>Equipment Type</u>	<u>SEER2/SEER</u>	<u>EER/EER4</u>	<u>HSPF/HSPF</u>
<u>Ductless Systems</u>	<u>1.00</u>	<u>1.00</u>	<u>0.90</u>
<u>Ducted Split System</u>	<u>0.95</u>	<u>0.95</u>	<u>0.85</u>
<u>Ducted Package System</u>	<u>0.95</u>	<u>0.95</u>	<u>0.84</u>
<u>Small Duct High Velocity System</u>	<u>1.00</u>	<u>not applicable</u>	<u>0.85</u>

1002	<u>Ducted Space-Constrained Air Conditioner</u>	<u>0.97</u>	<u>not applicable</u>	<u>not applicable</u>
1003	<u>Ducted Space-Constrained Heat Pump</u>		<u>not applicable</u>	<u>0.85</u>

1004 (25) IRC, Chapter 44, is amended by adding the following reference standard:

1005	"Standard reference number	Title	Referenced in code section number
1006	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"

1007 [~~25~~] (26) In IRC, Chapter 44, is amended by adding the following reference standard:

1008 "UL 9540-20: Energy Storage Systems and Equipment; R328.1, R328.2, and R328.6."

1009 [~~26~~] (27) (a) When passive radon controls or portions thereof are voluntarily
1010 installed, the voluntary installation shall comply with Appendix F of the IRC.

1011 (b) An additional inspection of a voluntary installation described in Subsection
1012 [~~22~~](a) (27)(a) is not required.

1013 Section 9. Section **15A-3-401** is amended to read:

1014 **15A-3-401. General provisions.**

1015 (1) The amendments in this part are adopted as amendments to the IMC to be
1016 applicable statewide.

1017 (2) In IMC, Section 505.4, a new subsection 505.4.1 is added as follows: "505.4.1
1018 Makeup Air. Makeup air is not required in residential dwelling units where gas, liquid, or solid
1019 fuel-burning appliances located within a units air barrier are all direct-vent or use a mechanical
1020 draft venting system."

1021 (3) In IMC, Section 1004.2, the first sentence is deleted and replaced with the
1022 following: " In accordance with Title 34A, Chapter 7, Safety, and requirements made by rule by

1023 the Labor Commission, boilers and pressure vessels in Utah are regulated by the Utah Labor
 1024 Commission, Division of Boiler, Elevator and Coal Mine Safety, except those located in
 1025 private residences or in apartment houses of less than five family units. Boilers shall be
 1026 installed in accordance with their listing and labeling, with minimum clearances as prescribed
 1027 by the manufacturer's installation instructions and the state boiler code, whichever is greater."

1028 ~~[(3)]~~ (4) In IMC, Section 1004.3.1, the word "unlisted" is inserted before the word
 1029 "boilers".

1030 ~~[(4)]~~ (5) In IMC, Section 1209.3, the following words are added at the end of the
 1031 section: "or other methods approved for the application."

1032 Section 10. Section **15A-3-701** is amended to read:

1033 **15A-3-701. General provisions.**

1034 The following is adopted as an amendment to the IECC to be applicable statewide:

1035 (1) IECC, Section C405.11, is deleted and replaced with the following: "C405.11
 1036 Automatic receptacle control. Automatic receptacle control to be optional and decided by
 1037 property owner."

1038 (2) In IECC, Section R102.1.1, a new section R102.1.1 is added as follows: "R102.1.1
 1039 National Green Building Standard complying with ICC 700-2020 National Green Building
 1040 Standard and achieving the Gold rating level for the energy efficiency category shall be deemed
 1041 to exceed the energy efficiency required by this code. The building shall also meet the
 1042 requirements identified in table N1105.2 and the building thermal envelope efficiency is
 1043 greater than or equal to levels of efficiency and solar heat gain coefficients (SHGC) in Tables
 1044 N1102.2.2 and N1102.1.3 of the 2009 IRC."

1045 ~~[(2)]~~ (3) In IECC, Section R103.2, all words after the words "herein governed." are
 1046 deleted and replaced with the following: "Construction documents include all documentation
 1047 required ~~[to be submitted in order to issue a building permit.]~~ for building permits shall
 1048 include only those items specified in 10-5-132(8) of the Utah Municipal Code."

1049 ~~[(3)]~~ (4) In IECC, Section R303.1.3 the following changes are made:

1050 (a) The following is added at the end of the first sentence "or EN
 1051 14351-1:2006+A1:2010."

1052 (b) The word "accredited" is replaced with "approved" in the third sentence.

1053 (c) The following sentence is added after the third sentence: "A conversion factor of

1054 5.678 shall be used to convert from U values expressed in SI units: $(\)/53678=.$ "

1055 (d) After "NFRC 200" the following words are added: "or EN
1056 14351-1:2006+A1:2010", and in the sentence the word "accredited" is replaced with the word
1057 "approved".

1058 (e) The following new sentence shall be inserted immediately prior to the last sentence:
1059 "Total Energy Transmittance values may be substituted for SHGC, and Luminous
1060 Transmission values may be substituted for VT."

1061 (5) In IECC, Section R303.3, all wording after the first sentence is deleted.

1062 [~~(4)~~ (6) In IECC, Section R401.2, [a new number 4 is added as follows:] in the first
1063 sentence, the words "Section R401.13.5 and" are deleted.

1064 [~~"4. Compliance may be shown by demonstrating a result, using the software~~
1065 RESCheck 2012 Utah Energy Conservation Code, of:]

1066 [~~(a) on or after January 1, 2017, and before January 1, 2019, "3 percent better than~~
1067 code";]

1068 [~~(b) on or after January 1, 2019, and before January 1, 2021, "4 percent better than~~
1069 code"; and]

1070 [~~(c) after January 1, 2021, "5 percent better than code".]~~

1071 [~~(5) In IECC, Table R402.2, in the column entitled MASS WALL R-VALUE, a new~~
1072 footnote j is added as follows:]

1073 [~~"j. Log walls complying with ICC400 and with a minimum average wall thickness of 5~~
1074 inches or greater shall be permitted in Zones 5 through 8 when overall window glazing has a
1075 .31 U-factor or lower, minimum heating equipment efficiency is, for gas, 90 AFUE, or, for oil,
1076 84 AFUE, and all other component requirements are met."]

1077 (7) In IECC, Section R401.2.5 is deleted.

1078 (8) In IECC, Section R401.3 Number 7, the words "and the compliance path used" are
1079 deleted.

1080 (9) In IECC Table R402.1.2, the following changes are made:

1081 (a) in the column titled "Fenestration U-Factor" the following changes are made:

1082 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;

1083 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with
1084 0.32; and

- 1085 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;
1086 (b) in the column titled "Glazed Fenestration SHGC", the following change is made: in
1087 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;
1088 (c) in the column titled "Climate U-Factor" the following changes are made:
1089 (i) in the row titled "Climate Zone 3" delete 0.026 and replace it with 0.033;
1090 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.024 and replace it with
1091 0.030; and
1092 (iii) in the row titled "Climate Zone 6" delete 0.024 and replace it with 0.030;
1093 (d) in the column titled "Wood Frame Wall U Factor", the following changes are made:
1094 (i) in the row titled "Climate Zone 3" delete 0.060 and replace it with 0.065;
1095 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.045 and replace it with
1096 0.065; and
1097 (iii) in the row titled "Climate Zone 6" delete 0.045 and replace it with 0.065;
1098 (e) in the column titled "Basement wall U-Factor" the following changes are made:
1099 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.050 and replace it with
1100 0.075; and
1101 (ii) in the row titled "Climate Zone 6" delete 0.50 and replace it with 0.065; and
1102 (f) in the column titled "Crawl Space Wall U-Factor" the following changes are made:
1103 (i) in the row titled "Climate Zone 5 and Marine 4" delete 0.055 and replace it with
1104 0.078; and
1105 (ii) in the row titled "Climate Zone 6" delete 0.55 and replace it with 0.065.
1106 (10) In IECC, Table R402.1.3 the following changes are made:
1107 (a) in the column titled "Fenestration U-Factor" the following changes are made:
1108 (i) in the row titled "Climate Zone 3" delete 0.30 and replace it with 0.32;
1109 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 0.30 and replace it with
1110 0.32; and
1111 (iii) in the row titled "Climate Zone 6" delete 0.30 and replace it with 0.32;
1112 (b) in the column titled "Glazed Fenestration" SHGC the following change is made: in
1113 the row titled "Climate Zone 3" delete 0.25 and replace it with 0.35;
1114 (c) in the Column R-Value the following changes are made:
1115 (i) in the row titled "Climate Zone 3" delete 49 and replace it with 32;

1116 (ii) in the row titled "Climate Zone 5 and Marine 4" delete 60 and replace it with 38;

1117 and

1118 (iii) in the row titled "Climate Zone 6" delete 60 and replace it with 38;

1119 (d) in the Column titled "Wood Frame Wall R-Value" the following changes are made:

1120 (i) in the row titled "Climate Zone 3" delete all values and replace with "19+ Oci or
1121 11+5ci or 0+15ci";

1122 (ii) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
1123 19+Oci or 13+5ci or 0+15ci"; and

1124 (iii) in the row titled Climate Zone 6 delete all values and replace with "19+Oci or
1125 "13+5ci or 0+15ci";

1126 (e) in the column titled "Basement Wall R Value" the following changes are made:

1127 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
1128 "15+Oci or 0+11ci or 11+5ci"; and

1129 (ii) in the row titled Climate Zone 6 delete all values and replace with "19+Oci or
1130 0+13ci or 11+5ci";

1131 (f) in the column titled "Slab R Value and Depth" the following changes are made:

1132 (i) in the row titled "Climate Zone 3" delete "10ci. 2ft" and replace it with "NR"; and

1133 (ii) in the row titled "Climate Zone 5 & Marine 4" delete "4 ft" and replace it with "2
1134 ft";

1135 (g) in the column titled "Crawl Space Wall R-Value" the following changes are made:

1136 (i) in the row titled "Climate Zone 5 or Marine 4" delete all values and replace with
1137 "15+ Oci or 0 + 11ci or 11 +5ci"; and

1138 (ii) in the row titled Climate Zone 6 delete all values and replace with "19 + Oci or 0 +
1139 13ci or 0 + 11 + 5 ci"; and

1140 (h) in IECC, Table R402.2, in the column titled "MASS WALL R-VALUE", a new
1141 footnote "j" is added as follows: "j Log walls complying with ICC400 and with a minimum
1142 average wall thickness of 5 inches or greater shall be permitted in "Zones 5 through 8" when
1143 overall window glazing has a .31 U-factor or lower, minimum heating equipment efficiency is
1144 90 AFUE (gas) or 84 AFUE (oil), and all other component requirements are met."

1145 [~~(6)~~] (11) In IECC, a new subsection R402.1.5.1 is added as follows: "R402.1.5.1
1146 RESCheck 2012 Utah Energy Conservation Code. Compliance with section N1102.1.5

1147 (R402.1.5) may be satisfied using the software RESCheck 2012 Utah Energy Conservation
1148 Code, which shall satisfy the R-value and U-factor requirements of N1102.1, N1102.2, and
1149 N1102.3, provided the following conditions are met:

1150 (a) In Climate Zone 5 and 6 the software result shall show 5% better than code; and

1151 (b) In Climate Zone 3, the software result shall show 5% better than code when
1152 software inputs for window U-factor = 0.65 and window SHGC = 0.40, notwithstanding actual
1153 windows installed shall conform to requirements of Tables N1102.1.2 (R402.1.2) and
1154 N1102.1.3 (R402.1.3)."

1155 (12) In IECC, Section R402.2.1, a new section is added as follows: "R402.2.1.1.
1156 Unvented attic and unvented enclosed rafter assemblies. Unvented attic and unvented enclosed
1157 rafter assemblies conforming to Section R806.5 shall be provided with an R-value of R-22
1158 (maximum U-Factor of 0.045) in Climate Zone 3-B or an R-value of R-26 (maximum U-factor
1159 of 0.038) in Climate Zones 5-B and 6-B shall be permitted provided all the following
1160 conditions are met:

1161 1. The unvented attic assembly complies with the requirements of the International
1162 Residential Code, Section R806.5.

1163 2. The house shall attain a blower door test result $< 2.5ACH 50$.

1164 3. The house shall require a whole house mechanical ventilation system that does not
1165 rely solely on a negative pressure strategy (must be positive, balanced or hybrid).

1166 4. Where insulation is installed below the roof deck and the exposed portion of roof
1167 rafters are not already covered by the R-20 depth of the air-impermeable insulation, the
1168 exposed portion of the roof rafters shall be wrapped (covered) by minimum R-3 unless directly
1169 covered by drywall/finished ceiling. Roof rafters are not required to be covered by minimum
1170 R-3 if a continuous insulation is installed above the roof deck."

1171 5. Indoor heating, cooling and ventilation equipment (including ductwork) shall be
1172 inside the building thermal envelope.

1173 ~~(7)~~ (13) A new IECC, Section R402.2.1.3 is added as follows: "R402.2.1.3 Walls
1174 with Air-Impermeable Insulation. Where IECC Table R402.1.2 requires R-20 for wood framed
1175 walls in climate zones 3-B and 5-B or R-20+5CI for climate zone 6-B, an air-impermeable
1176 insulation installed in the wall cavity with R-value of R-15 for climate zones 3-B and 5-B or
1177 R-20 for climate zone 6-B shall be deemed equivalent to the provisions in IECC Table

1178 R402.1.2, provided the home attains a blower door test < 2.5ACH."

1179 (14) In IECC, Section R402.2.9.1 the numeral "(i)" is added before the words "cut at a
 1180 45 degree" and the following is added after the words "exterior wall:": "or (ii) lowered from
 1181 top of slab 4" when a 4" thermal break material such as, but not limited to, felt or asphalt
 1182 impregnated fiber board, with a minimum thickness of 1/4" is installed at the upper 4" of slab."

1183 (15) In IECC, Section R402.4.1, in the first sentence, the word "and" is deleted and
 1184 replaced with the word "or".

1185 ~~[(8)]~~ (16) In IECC, Section R402.4.1.1, the [last sentence is] second and the last
 1186 sentences are deleted and replaced with the following: "Where [allowed] required by the code
 1187 official, the builder [may] shall certify compliance [to components criteria for items which may
 1188 not be inspected during regularly scheduled inspections] with criteria indicated in Table
 1189 R1102.4.1 for items which are not readily visible during regularly scheduled inspections."

1190 ~~[(9)]~~ (17) In IECC, Table R402.4.1.1 in the column titled "COMPONENT", the
 1191 following changes are made:

1192 (a) In the row "Rim Joists" the word "exterior" in the first sentence is deleted, and the
 1193 second sentence is deleted.

1194 (b) In the row "Electrical/phone box on the exterior walls" the last sentence is deleted
 1195 and replaced with: "Alternatively, close cell foam, caulking or gaskets may be used, or air
 1196 sealed boxes may be installed."

1197 (18) In IECC, Section R402.4.1.2, the following changes are made:

1198 (a) In the [first] fourth sentence[:], the word "third" is deleted.

1199 [(i) "The building or dwelling unit" is deleted and replaced with "A single-family
 1200 dwelling";]

1201 [(ii) after January 1, 2019, replace the word "five" with "3.5", and]

1202 [(iii) the words "in Climate Zones 1 and 2, and three air changes per hour in Climate
 1203 Zones 3 through 8" are deleted:]

1204 (b) The following sentence is [inserted after the first sentence: "A multi-family
 1205 dwelling and townhouse shall be tested and verified as having an air leakage rate of not
 1206 exceeding five air changes per hour."] added after the fourth sentence:

1207 [(c) In the third sentence, the word "third" is deleted.]

1208 [(d) The following sentence is inserted after the third sentence:] "The following parties

1209 shall be approved to conduct testing: Parties certified by BPI or RESNET, or licensed
1210 contractors who have completed training provided by Blower Door Test equipment
1211 manufacturers or other comparable training."

1212 (c) In the first Exception the second sentence is deleted.

1213 [~~(10) In IECC, Section R403.3.3, the exception for duct air leakage testing is deleted~~
1214 ~~and replaced with the following:]~~

1215 [~~(a) on or after January 1, 2017, and before January 1, 2019, with the following:~~
1216 ~~"Exception: The total leakage test is not required for systems with all air handlers and at least~~
1217 ~~65% of all ducts (measured by length) located entirely within the building thermal envelope.";~~]

1218 [~~(b) on or after January 1, 2019, and before January 1, 2021, with the following:~~
1219 ~~"Exception: The duct air leakage test is not required for systems with all air handlers and at~~
1220 ~~least 75% of all ducts (measured by length) located entirely within the building thermal~~
1221 ~~envelope."; and]~~

1222 [~~(c) on or after January 1, 2021, with the following: "Exception: The duct air leakage~~
1223 ~~test is not required for systems with all air handlers and at least 80% of all ducts (measured by~~
1224 ~~length) located entirely within the building thermal envelope."~~]

1225 [~~(11) In IECC, Section R403.3.3, the following is added after the exception:]~~

1226 [~~"The following parties shall be approved to conduct testing:]~~

1227 [~~1. Parties certified by BPI or RESNET.]~~

1228 [~~2. Licensed contractors who have completed training provided by Duct Test equipment~~
1229 ~~manufacturers or other comparable training."]~~

1230 [~~(12) In IECC, Section R403.3.4:]~~

1231 [~~(a) in Subsection 1, the number 4 is changed to 8, the number 113.3 is changed to 170;~~
1232 ~~the number 3 is changed to 6, and the number 85 is changed to 114.6; and]~~

1233 [~~(b) in Subsection 2:]~~

1234 [~~(i) on or after January 1, 2017, and before January 1, 2019, the number 4 is changed to~~
1235 ~~8 and the number 113.3 is changed to 226.5;]~~

1236 [~~(ii) on or after January 1, 2019, and before January 1, 2021, the number 4 is changed~~
1237 ~~to 7 and the number 113.3 is changed to 198.2; and]~~

1238 [~~(iii) on or after January 1, 2021, the number 4 is changed to 6 and the number 113.3 is~~
1239 ~~changed to 169.9.]~~

1240 (19) In IECC, Section R402.4.1.3 the following changes are made:

1241 (a) in the first sentence, the words 5.0 air changes per hour in Climate Zones 0, 1 and 2,
1242 and 3.0 are deleted and replaced with 4.0., and the words in Climate Zone 3 through 8 are
1243 deleted;

1244 (b) in the first sentence of the Exception, 0.28 is replaced with 5.0 air changes per hour
1245 or 0.30; and

1246 (c) in Number 2 the words of "conditioned floor area" are inserted before the words "or
1247 smaller."

1248 (20) IECC, Section R402.6 is deleted.

1249 (21) In IECC, Section R403.3.1 is deleted and replaced with the following: "Ducts
1250 located outside conditioned space. Supply and return ducts in attics shall be insulated to a
1251 minimum of R-8 where 3 inches (76.2 mm) in diameter and greater and R-6 where less than 3
1252 inches (76.2 mm) in diameter. Supply and return ducts in other portions of the building shall be
1253 insulated to a minimum of R-6 where 3 inches (76.2 mm) in diameter or greater and R-4.2
1254 where less than 3 inches (76.2 mm) in diameter. Exception: Ducts or portions thereof located
1255 completely inside the building thermal envelope."

1256 (22) In IECC, Section R403.3.3, is deleted.

1257 (23) In IECC, Section R403.3.3.1 is deleted.

1258 ~~[(13)]~~ (24) In IECC, Section R403.3.5, the [words "or plenums" are deleted:] following
1259 changes are made:

1260 (a) A second Exception is added as follows: "A duct leakage test shall not be required
1261 for any system designed such that no air handlers or ducts are located within unconditioned
1262 attics."

1263 (b) The following is added at the end of the section: "The following parties shall be
1264 approved to conduct testing:

1265 (i) Parties certified by BPT or RESNET

1266 (ii) Licensed contractors who have completed training provided by Duct Test
1267 equipment manufacturers or other comparable training."

1268 ~~[(14) In IECC, Section R403.5.3, Subsection 5 is deleted and Subsections 6 and 7 are~~
1269 ~~renumbered.]~~

1270 (25) In IECC, Section N1103.3.6 (R403.3.6) the following changes are made:

- 1271 (a) in Subsection 1:
- 1272 (i) the number 4.0 is changed to 6.0;
- 1273 (ii) the number 113.3 is changed to 170;
- 1274 (iii) the number 3.0 is changed to 5.0; and
- 1275 (iv) the number 85 is changed to 141;
- 1276 (b) in Subsection 2:
- 1277 (i) the number 4.0 is changed to 5.0; and
- 1278 (ii) the number 113.3 is changed to 141; and
- 1279 (c) Subsection 3 is deleted.
- 1280 (26) In IECC, Section N1103.3.7 (R403.3.7) the words "or plenums" are deleted.
- 1281 (27) In IECC, Section N1103.5.1.1 (R403.5.1.1) the words "Where installed" are added
- 1282 at the beginning of the first sentence.

1283 ~~[(15)]~~ (28) IECC, Section ~~[R403.6.1]~~ R403.6.2, is deleted and replaced with the
 1284 following: ~~["R403.6.1"]~~ "R403.6.2 Whole-house mechanical ventilation system fan efficacy.
 1285 Fans used to provide whole-house mechanical ventilation shall meet the efficacy requirements
 1286 of Table ~~[R403.6.1]~~ R403.6.2."

1287 "Exception: Where an air handler that is integral to tested and listed HVAC equipment
 1288 is used to provide whole-house mechanical ventilation, the air handler shall be powered by an
 1289 electronically commutated motor."

1290 ~~[(16)]~~ (29) In IECC, Section ~~[R403.6.1]~~ R403.6.2, the table is deleted and replaced
 1291 with the following:

1292 "TABLE ~~[R403.6.1]~~ R403.6.2"

1293 "MECHANICAL VENTILATION SYSTEM FAN EFFICACY"

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90

1299	Bathroom, utility room	90	2.8 cfm/watt	Any"
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1300 [(17) In IECC, Section R406.5, the table is deleted and replaced with the following:]

1301 ["TABLE R406.5]

1302 [MAXIMUM ENERGY RATING INDEX]

1303	<u>[CLIMATE ZONE]</u>	<u>[ENERGY RATING INDEX]</u>
1304	<u>[3]</u>	<u>[65]</u>
1305	<u>[5]</u>	<u>[69]</u>
1306	<u>[6]</u>	<u>[68"]</u>

1307 [(18)] (30) IECC, Section R403.6.3 is deleted

1308 (31) In IECC, Section R403.7 the word "approved" is deleted in the first sentence and
 1309 the following is added after the word "methodologies": "complying with R403.7.1."

1310 (32) A new IECC, Section R403.7.1, is added as follows: "R403.7.1 Qualifications. An
 1311 individual performing load calculations shall be qualified by completing HVAC training from
 1312 one of the following:

- 1313 1. HVAC load calculation education from ACCA;
- 1314 2. A recognized educational institution;
- 1315 3. HVAC equipment manufacturer's training; or
- 1316 4. Other recognized industry certification."

1317 (33) In IECC, Section R404.1, the word "All" is replaced with "Not less than 90
 1318 percent of the lamps in."

1319 (34) IECC, Section R404.1.1 is deleted.

1320 (35) IECC, Section R404.2 is deleted.

1321 (36) IECC, Section R404.3 is deleted.

1322 (37) In IECC, Section R405.2 the following changes are made:

1323 (a) in Subsection 3 the words "approved by the code official" are deleted; and

1324 (b) in Subsection 3 the following words are added at the end of the sentence: "when
 1325 applicable and readily available."

1326 (38) in IECC, Section R406.3 "Building thermal envelope" is deleted, and replaced
 1327 with the following: "Building thermal envelope and on-site renewables. The proposed total
 1328 building thermal envelope UA, which is the sum of U-factor times assembly area, shall be less

1329 than or equal to the building thermal envelope UA using the prescriptive U-factors From Table
 1330 N1102.1.2 multiplied by 1.15 in accordance with Equation 11-4. The area-weighted maximum
 1331 fenestration SHGC permitted in Climate Zones 0 through 3 shall be 0.30.UAProposed design =
 1332 1.15 x UAPrescriptive reference design (Equation 11-4) "

1333 (39) in IECC, Section R406.3.1 is deleted.

1334 (40) in IECC, Section R403.3.2 is deleted.

1335 (41) in IECC, Section R406.4 the following changes are made:

1336 (a) in the first sentence, the words "in accordance with Equation 11-5" are deleted and
 1337 replaced with: "permitted to be calculated using the minimum total air exchange Rate for the
 1338 rated home (Qtot) and for the index adjustment factor in accordance with Equation 11.5.";

1339 (b) in equation 11-5, the words "Ventilation rate, CFM" are deleted and replaced with:
 1340 "Qtot"; and

1341 (c) in the last sentence the number "5" is deleted and replaced with "15".

1342 (42) In IECC, Section R406.5 in the column titled ENERGY RATING INDEX of
 1343 Table R406.5, the following changes are made:

1344 (a) in the row for Climate Zone 3, "51" is deleted and replaced with "65";

1345 (b) in the row for Climate Zone 5, "55" is deleted and replaced with "69"; and

1346 (c) in the row for Climate Zone 6 "54" is deleted and replaced with "68".

1347 (43) In IECC, Section R408 is deleted.

1348 (44) In IECC, Chapter 6, the standard for ANSI/RESNET/ICC 201-2019 section 4.4.4
 1349 is added as follows: "4.4.4. Air Source Heat Pumps and Air Conditioners. For Heat Pumps and
 1350 Air Conditioners with the more recent Manufacturers Equipment Performance Ratings (HSPF2
 1351 or SEER2) available, and HSPF and SEER are not available, these ratings shall be converted to
 1352 HSPF and SEER values by dividing HSPF2 or SEER2 by the conversion factors in Table
 1353 4.4.4.1(1). If the type of equipment is not determined, the conversion shall default to the
 1354 Ducted Split System factors. All calculations, including Equation 4.1-1a shall use HSPF or
 1355 SEER values as made available by the Manufacturer or converted as specified in this section.
 1356 Table 4.4.4.1(1) SEER2 and HSPF2 Conversion "

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

1360	<u>Ducted Packaged System</u>	<u>0.95</u>	<u>0.95</u>	<u>0.84</u>
1361	<u>Small Duct High Velocity System</u>	<u>1.00</u>	<u>Not Applicable</u>	<u>0.85</u>
1362	<u>Ducted Space-Constrained Air Conditioner</u>	<u>0.97</u>	<u>Not Applicable</u>	<u>Not Applicable</u>
1363	<u>Ducted Space-Constrained Heat Pump</u>	<u>0.99</u>	<u>Not Applicable</u>	<u>0.85"</u>

1364 Section 11. Section **15A-3-801** is amended to read:

1365 **15A-3-801. General provisions.**

1366 The following are adopted as amendments to the IEBC and are applicable statewide:

1367 (1) In IEBC, Section 202, the definition for "Approved" is modified by adding the
 1368 words "or independent third-party licensed engineer or architect and submitted to the building
 1369 official after the word official."

1370 (2) In Section 202, the following definition is added: "BUILDING OFFICIAL. See
 1371 Code Official."

1372 [~~2~~] (3) In Section 202, the definition for "code official" is deleted and replaced with
 1373 the following:

1374 "CODE OFFICIAL. The officer or other designated authority having jurisdiction
 1375 (AHJ) charged with the administration and enforcement of this code."

1376 [~~3~~] (4) In Section 202, the definition for existing buildings is deleted and replaced
 1377 with the following:

1378 "EXISTING BUILDING. A building that is not a dangerous building and that was
 1379 either lawfully erected under a prior adopted code, or deemed a legal non-conforming building
 1380 by the code official."

1381 [~~4~~] (5) In IEBC, Section 302.3 the following is added after the words "code official"
 1382 in the last sentence: "or independent third-party licensed engineer or architect and submitted to

1383 the building official."

1384 (6) In Section 301.3, the exception is deleted.

1385 [(5)] (7) In Section 305.4.2, number 7 is added after number 6 as follows: "7. When a
1386 change of occupancy in a building or portion of a building results in a Group R-2 occupancy,
1387 not less than 20% of the dwelling or sleeping units shall be Type-B dwelling or sleeping units.
1388 These dwelling or sleeping units may be located on any floor of the building provided with an
1389 accessible route. Two percent, but not less than one unit, of the dwelling or sleeping units shall
1390 be Type-A dwelling units."

1391 [(6)] (8) Section 503.6 is deleted and replaced with the following:

1392 "503.6 Bracing for unreinforced masonry parapets and other appendages upon
1393 reroofing.

1394 Where the intended alteration requires a permit for reroofing and involves removal of
1395 roofing materials from more than 25% of the roof area of a building assigned to Seismic
1396 Design Category D, E, or F that has parapets constructed of unreinforced masonry or
1397 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include
1398 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates
1399 compliance of such items. Reduced seismic forces are permitted for design purposes."

1400 [(7)] (9) In Section 705.1, Exception number 3, the following is added at the end of the
1401 exception:

1402 "This exception does not apply if the existing facility is undergoing a change of
1403 occupancy classification."

1404 [(8)] (10) Section 706.3.1 is deleted and replaced with the following:

1405 "706.3.1 Bracing for unreinforced masonry bearing wall parapets and other appendages.

1406 Where a permit is issued for reroofing more than 25 percent of the roof area of a
1407 building assigned to Seismic Design Category D, E, or F that has parapets constructed of
1408 unreinforced masonry or appendages such as cornices, spires, towers, tanks, signs, statuary,
1409 etc., the work shall include installation of bracing to resist the reduced International Building
1410 Code level seismic forces as specified in Section 303 of this code unless an evaluation
1411 demonstrates compliance of such items."

1412 [(9)] (11) Section 906.6 is deleted and replaced with the following:

1413 "906.6 Bracing for unreinforced masonry parapets and other appendages upon

1414 reroofing.

1415 Where the intended alteration requires a permit for reroofing and involves removal of
1416 roofing materials from more than 25% of the roof area of a building assigned to Seismic
1417 Design Category D, E, or F that has parapets constructed of unreinforced masonry or
1418 appendages such as cornices, spires, towers, tanks, signs, statuary, etc., the work shall include
1419 installation of bracing to resist out-of-plane seismic forces, unless an evaluation demonstrates
1420 compliance with such items. Reduced seismic forces are permitted for design purposes."

1421 [~~(H)~~] (12) (a) Section 1006.3 is deleted and replaced with the following:

1422 "1006.3 Seismic Loads. Where a change of occupancy results in a building being
1423 assigned to a higher risk category, or when a change of occupancy results in a design occupant
1424 load increase of 100% or more, the building shall satisfy the requirements of Section 1613 of
1425 the International Building Code using full seismic forces."

1426 (b) Section 1006.3, exceptions 1 through 3 remain unchanged.

1427 (c) In Section 1006.3, add a new exception 5 as follows:

1428 "5. Where the design occupant load increase is less than 25 occupants and the
1429 occupancy category does not change."

1430 [~~(H)~~] (13) In Section [~~1012.7.3~~] 1011.7.3, exception 2 is deleted.

1431 Section 12. Section **58-55-102** is amended to read:

1432 **58-55-102. Definitions.**

1433 In addition to the definitions in Section 58-1-102, as used in this chapter:

1434 (1) (a) "Alarm business" or "alarm company" means a person engaged in the sale,
1435 installation, maintenance, alteration, repair, replacement, servicing, or monitoring of an alarm
1436 system, except as provided in Subsection (1)(b).

1437 (b) "Alarm business" or "alarm company" does not include:

1438 (i) a person engaged in the manufacture or sale of alarm systems unless:

1439 (A) that person is also engaged in the installation, maintenance, alteration, repair,
1440 replacement, servicing, or monitoring of alarm systems;

1441 (B) the manufacture or sale occurs at a location other than a place of business
1442 established by the person engaged in the manufacture or sale; or

1443 (C) the manufacture or sale involves site visits at the place or intended place of
1444 installation of an alarm system; or

1445 (ii) an owner of an alarm system, or an employee of the owner of an alarm system who
1446 is engaged in installation, maintenance, alteration, repair, replacement, servicing, or monitoring
1447 of the alarm system owned by that owner.

1448 (2) "Alarm company agent":

1449 (a) except as provided in Subsection (2)(b), means any individual employed within this
1450 state by an alarm business; and

1451 (b) does not include an individual who:

1452 (i) is not engaged in the sale, installation, maintenance, alteration, repair, replacement,
1453 servicing, or monitoring of an alarm system; and

1454 (ii) does not, during the normal course of the individual's employment with an alarm
1455 business, use or have access to sensitive alarm system information.

1456 (3) "Alarm company officer" means:

1457 (a) a governing person, as defined in Section 48-3a-102, of an alarm company;

1458 (b) an individual appointed as an officer of an alarm company that is a corporation in
1459 accordance with Section 16-10a-830;

1460 (c) a general partner, as defined in Section 48-2e-102, of an alarm company; or

1461 (d) a partner, as defined in Section 48-1d-102, of an alarm company.

1462 (4) "Alarm company owner" means:

1463 (a) a shareholder, as defined in Section 16-10a-102, who owns directly, or indirectly
1464 through an entity controlled by the individual, 5% or more of the outstanding shares of an
1465 alarm company that:

1466 (i) is a corporation; and

1467 (ii) is not publicly listed or traded; or

1468 (b) an individual who owns directly, or indirectly through an entity controlled by the
1469 individual, 5% or more of the equity of an alarm company that is not a corporation.

1470 (5) "Alarm company proprietor" means the sole proprietor of an alarm company that is
1471 registered as a sole proprietorship with the Division of Corporations and Commercial Code.

1472 (6) "Alarm company trustee" means an individual with control of or power of
1473 administration over property held in trust.

1474 (7) (a) "Alarm system" means equipment and devices assembled for the purpose of:

1475 (i) detecting and signaling unauthorized intrusion or entry into or onto certain

1476 premises; or

1477 (ii) signaling a robbery or attempted robbery on protected premises.

1478 (b) "Alarm system" includes a battery-charged suspended-wire system or fence that is
1479 part of and interfaces with an alarm system for the purposes of detecting and deterring
1480 unauthorized intrusion or entry into or onto certain premises.

1481 (8) "Apprentice electrician" means a person licensed under this chapter as an
1482 apprentice electrician who is learning the electrical trade under the immediate supervision of a
1483 master electrician, residential master electrician, a journeyman electrician, or a residential
1484 journeyman electrician.

1485 (9) "Apprentice plumber" means a person licensed under this chapter as an apprentice
1486 plumber who is learning the plumbing trade under the immediate supervision of a master
1487 plumber, residential master plumber, journeyman plumber, or a residential journeyman
1488 plumber.

1489 (10) "Approved continuing education" means instruction provided through courses
1490 under a program established under Subsection [58-55-302.5\(2\)](#).

1491 (11) (a) "Approved preclicensure course provider" means a provider that is the
1492 Associated General Contractors of Utah, the Utah Chapter of the Associated Builders and
1493 Contractors, or the Utah Home Builders Association, and that meets the requirements
1494 established by rule by the commission with the concurrence of the director, to teach the
1495 25-hour course described in Subsection [58-55-302\(1\)\(e\)\(iii\)](#).

1496 (b) "Approved preclicensure course provider" may only include a provider that, in
1497 addition to any other locations, offers the 25-hour course described in Subsection
1498 [58-55-302\(1\)\(e\)\(iii\)](#) at least six times each year in one or more counties other than Salt Lake
1499 County, Utah County, Davis County, or Weber County.

1500 (12) "Board" means the Electrician Licensing Board, Alarm System Security and
1501 Licensing Board, or Plumbers Licensing Board created in Section [58-55-201](#).

1502 (13) "Combustion system" means an assembly consisting of:

1503 (a) piping and components with a means for conveying, either continuously or
1504 intermittently, natural gas from the outlet of the natural gas provider's meter to the burner of the
1505 appliance;

1506 (b) the electric control and combustion air supply and venting systems, including air

1507 ducts; and

1508 (c) components intended to achieve control of quantity, flow, and pressure.

1509 (14) "Commission" means the Construction Services Commission created under
1510 Section [58-55-103](#).

1511 (15) "Construction trade" means any trade or occupation involving:

1512 (a) (i) construction, alteration, remodeling, repairing, wrecking or demolition, addition
1513 to, or improvement of any building, highway, road, railroad, dam, bridge, structure, excavation
1514 or other project, development, or improvement to other than personal property; and

1515 (ii) constructing, remodeling, or repairing a manufactured home or mobile home as
1516 defined in Section [15A-1-302](#); or

1517 (b) installation or repair of a residential or commercial natural gas appliance or
1518 combustion system.

1519 (16) "Construction trades instructor" means a person licensed under this chapter to
1520 teach one or more construction trades in both a classroom and project environment, where a
1521 project is intended for sale to or use by the public and is completed under the direction of the
1522 instructor, who has no economic interest in the project.

1523 (17) (a) "Contractor" means any person who for compensation other than wages as an
1524 employee undertakes any work in the construction, plumbing, or electrical trade for which
1525 licensure is required under this chapter and includes:

1526 (i) a person who builds any structure on the person's own property for the purpose of
1527 sale or who builds any structure intended for public use on the person's own property;

1528 (ii) any person who represents that the person is a contractor, or will perform a service
1529 described in this Subsection (17) by advertising on a website or social media, or any other
1530 means;

1531 (iii) any person engaged as a maintenance person, other than an employee, who
1532 regularly engages in activities set forth under the definition of "construction trade";

1533 (iv) any person engaged in, or offering to engage in, any construction trade for which
1534 licensure is required under this chapter; or

1535 (v) a construction manager, construction consultant, construction assistant, or any other
1536 person who, for a fee:

1537 (A) performs or offers to perform construction consulting;

1538 (B) performs or offers to perform management of construction subcontractors;
1539 (C) provides or offers to provide a list of subcontractors or suppliers; or
1540 (D) provides or offers to provide management or counseling services on a construction
1541 project.

1542 (b) "Contractor" does not include:
1543 (i) an alarm company or alarm company agent; or
1544 (ii) a material supplier who provides consulting to customers regarding the design and
1545 installation of the material supplier's products.

1546 (18) (a) "Electrical trade" means the performance of any electrical work involved in the
1547 installation, construction, alteration, change, repair, removal, or maintenance of facilities,
1548 buildings, or appendages or appurtenances.

1549 (b) "Electrical trade" does not include:
1550 (i) transporting or handling electrical materials;
1551 (ii) preparing clearance for raceways for wiring;
1552 (iii) work commonly done by unskilled labor on any installations under the exclusive
1553 control of electrical utilities;

1554 (iv) work involving cable-type wiring that does not pose a shock or fire-initiation
1555 hazard; or

1556 (v) work involving class two or class three power-limited circuits as defined in the
1557 National Electrical Code.

1558 (19) "Elevator" means the same as that term is defined in Section [34A-7-202](#), except
1559 that for purposes of this chapter it does not mean a stair chair, a vertical platform lift, or an
1560 incline platform lift.

1561 (20) "Elevator contractor" means a sole proprietor, firm, or corporation licensed under
1562 this chapter that is engaged in the business of erecting, constructing, installing, altering,
1563 servicing, repairing, or maintaining an elevator.

1564 (21) "Elevator mechanic" means an individual who is licensed under this chapter as an
1565 elevator mechanic and who is engaged in erecting, constructing, installing, altering, servicing,
1566 repairing, or maintaining an elevator under the immediate supervision of an elevator contractor.

1567 (22) "Employee" means an individual as defined by the division by rule giving
1568 consideration to the definition adopted by the Internal Revenue Service and the Department of

1569 Workforce Services.

1570 (23) "Engage in a construction trade" means to:

1571 (a) engage in, represent oneself to be engaged in, or advertise oneself as being engaged
1572 in a construction trade; or

1573 (b) use the name "contractor" or "builder" or in any other way lead a reasonable person
1574 to believe one is or will act as a contractor.

1575 (24) (a) "Financial responsibility" means a demonstration of a current and expected
1576 future condition of financial solvency evidencing a reasonable expectation to the division and
1577 the board that an applicant or licensee can successfully engage in business as a contractor
1578 without jeopardy to the public health, safety, and welfare.

1579 (b) Financial responsibility may be determined by an evaluation of the total history
1580 concerning the licensee or applicant including past, present, and expected condition and record
1581 of financial solvency and business conduct.

1582 (25) "Gas appliance" means any device that uses natural gas to produce light, heat,
1583 power, steam, hot water, refrigeration, or air conditioning.

1584 (26) (a) "General building contractor" means a person licensed under this chapter as a
1585 general building contractor qualified by education, training, experience, and knowledge to
1586 perform or superintend construction of structures for the support, shelter, and enclosure of
1587 persons, animals, chattels, or movable property of any kind or any of the components of that
1588 construction except plumbing, electrical work, mechanical work, work related to the operating
1589 integrity of an elevator, and manufactured housing installation, for which the general building
1590 contractor shall employ the services of a contractor licensed in the particular specialty, except
1591 that a general building contractor engaged in the construction of single-family and multifamily
1592 residences up to four units may perform the mechanical work and hire a licensed plumber or
1593 electrician as an employee.

1594 (b) The division may by rule exclude general building contractors from engaging in the
1595 performance of other construction specialties in which there is represented a substantial risk to
1596 the public health, safety, and welfare, and for which a license is required unless that general
1597 building contractor holds a valid license in that specialty classification.

1598 (27) (a) "General electrical contractor" means a person licensed under this chapter as a
1599 general electrical contractor qualified by education, training, experience, and knowledge to

1600 perform the fabrication, construction, and installation of generators, transformers, conduits,
1601 raceways, panels, switch gear, electrical wires, fixtures, appliances, or apparatus that uses
1602 electrical energy.

1603 (b) The scope of work of a general electrical contractor may be further defined by rules
1604 made by the commission, with the concurrence of the director, in accordance with Title 63G,
1605 Chapter 3, Utah Administrative Rulemaking Act.

1606 (28) (a) "General engineering contractor" means a person licensed under this chapter as
1607 a general engineering contractor qualified by education, training, experience, and knowledge to
1608 perform or superintend construction of fixed works or components of fixed works requiring
1609 specialized engineering knowledge and skill in any of the following:

- 1610 (i) irrigation;
- 1611 (ii) drainage;
- 1612 (iii) water power;
- 1613 (iv) water supply;
- 1614 (v) flood control;
- 1615 (vi) an inland waterway;
- 1616 (vii) a harbor;
- 1617 (viii) a railroad;
- 1618 (ix) a highway;
- 1619 (x) a tunnel;
- 1620 (xi) an airport;
- 1621 (xii) an airport runway;
- 1622 (xiii) a sewer;
- 1623 (xiv) a bridge;
- 1624 (xv) a refinery;
- 1625 (xvi) a pipeline;
- 1626 (xvii) a chemical plant;
- 1627 (xviii) an industrial plant;
- 1628 (xix) a pier;
- 1629 (xx) a foundation;
- 1630 (xxi) a power plant; [or]

- 1631 (xxii) a utility plant or installation[-]; or
1632 (xxiii) electric utility piping.
- 1633 (b) A general engineering contractor may not perform or superintend:
1634 (i) construction of a structure built primarily for the support, shelter, and enclosure of
1635 persons, animals, and chattels; or
1636 (ii) performance of:
1637 (A) plumbing work;
1638 (B) electrical work beyond electric utility piping; or
1639 (C) mechanical work.
- 1640 (29) (a) "General plumbing contractor" means a person licensed under this chapter as a
1641 general plumbing contractor qualified by education, training, experience, and knowledge to
1642 perform the fabrication or installation of material and fixtures to create and maintain sanitary
1643 conditions in a building by providing permanent means for a supply of safe and pure water, a
1644 means for the timely and complete removal from the premises of all used or contaminated
1645 water, fluid and semi-fluid organic wastes and other impurities incidental to life and the
1646 occupation of such premises, and a safe and adequate supply of gases for lighting, heating, and
1647 industrial purposes.
- 1648 (b) The scope of work of a general plumbing contractor may be further defined by rules
1649 made by the commission, with the concurrence of the director, in accordance with Title 63G,
1650 Chapter 3, Utah Administrative Rulemaking Act.
- 1651 (30) "Immediate supervision" means reasonable direction, oversight, inspection, and
1652 evaluation of the work of a person:
1653 (a) as the division specifies in rule;
1654 (b) by, as applicable, a qualified electrician or plumber;
1655 (c) as part of a planned program of training; and
1656 (d) to ensure that the end result complies with applicable standards.
- 1657 (31) "Individual" means a natural person.
- 1658 (32) "Journeyman electrician" means a person licensed under this chapter as a
1659 journeyman electrician having the qualifications, training, experience, and knowledge to wire,
1660 install, and repair electrical apparatus and equipment for light, heat, power, and other purposes.
- 1661 (33) "Journeyman plumber" means a person licensed under this chapter as a

1662 journeyman plumber having the qualifications, training, experience, and technical knowledge
1663 to engage in the plumbing trade.

1664 (34) "Master electrician" means a person licensed under this chapter as a master
1665 electrician having the qualifications, training, experience, and knowledge to properly plan,
1666 layout, and supervise the wiring, installation, and repair of electrical apparatus and equipment
1667 for light, heat, power, and other purposes.

1668 (35) "Master plumber" means a person licensed under this chapter as a master plumber
1669 having the qualifications, training, experience, and knowledge to properly plan and layout
1670 projects and supervise persons in the plumbing trade.

1671 (36) "Person" means a natural person, sole proprietorship, joint venture, corporation,
1672 limited liability company, association, or organization of any type.

1673 (37) (a) "Plumbing trade" means the performance of any mechanical work pertaining to
1674 the installation, alteration, change, repair, removal, maintenance, or use in buildings, or within
1675 three feet beyond the outside walls of buildings, of pipes, fixtures, and fittings for the:

- 1676 (i) delivery of the water supply;
- 1677 (ii) discharge of liquid and water carried waste;
- 1678 (iii) building drainage system within the walls of the building; and
- 1679 (iv) delivery of gases for lighting, heating, and industrial purposes.

1680 (b) "Plumbing trade" includes work pertaining to the water supply, distribution pipes,
1681 fixtures and fixture traps, soil, waste and vent pipes, the building drain and roof drains, and the
1682 safe and adequate supply of gases, together with their devices, appurtenances, and connections
1683 where installed within the outside walls of the building.

1684 (38) "Ratio of apprentices" means the number of licensed plumber apprentices or
1685 licensed electrician apprentices that are allowed to be under the immediate supervision of a
1686 licensed supervisor as established by the provisions of this chapter and by rules made by the
1687 commission, with the concurrence of the director, in accordance with Title 63G, Chapter 3,
1688 Utah Administrative Rulemaking Act.

1689 (39) "Residential and small commercial contractor" means a person licensed under this
1690 chapter as a residential and small commercial contractor qualified by education, training,
1691 experience, and knowledge to perform or superintend the construction of single-family
1692 residences, multifamily residences up to four units, and commercial construction of not more

1693 than three stories above ground and not more than 20,000 square feet, or any of the components
1694 of that construction except plumbing, electrical work, mechanical work, and manufactured
1695 housing installation, for which the residential and small commercial contractor shall employ
1696 the services of a contractor licensed in the particular specialty, except that a residential and
1697 small commercial contractor engaged in the construction of single-family and multifamily
1698 residences up to four units may perform the mechanical work and hire a licensed plumber or
1699 electrician as an employee.

1700 (40) "Residential building," as it relates to the license classification of residential
1701 journeyman plumber and residential master plumber, means a single or multiple family
1702 dwelling of up to four units.

1703 (41) (a) "Residential electrical contractor" means a person licensed under this chapter
1704 as a residential electrical contractor qualified by education, training, experience, and
1705 knowledge to perform the fabrication, construction, and installation of services, disconnecting
1706 means, grounding devices, panels, conductors, load centers, lighting and plug circuits,
1707 appliances, and fixtures in a residential unit.

1708 (b) The scope of work of a residential electrical contractor may be further defined by
1709 rules made by the commission, with the concurrence of the director, in accordance with Title
1710 63G, Chapter 3, Utah Administrative Rulemaking Act.

1711 (42) "Residential journeyman electrician" means a person licensed under this chapter
1712 as a residential journeyman electrician having the qualifications, training, experience, and
1713 knowledge to wire, install, and repair electrical apparatus and equipment for light, heat, power,
1714 and other purposes on buildings using primarily nonmetallic sheath cable.

1715 (43) "Residential journeyman plumber" means a person licensed under this chapter as a
1716 residential journeyman plumber having the qualifications, training, experience, and knowledge
1717 to engage in the plumbing trade as limited to the plumbing of residential buildings.

1718 (44) "Residential master electrician" means a person licensed under this chapter as a
1719 residential master electrician having the qualifications, training, experience, and knowledge to
1720 properly plan, layout, and supervise the wiring, installation, and repair of electrical apparatus
1721 and equipment for light, heat, power, and other purposes on residential projects.

1722 (45) "Residential master plumber" means a person licensed under this chapter as a
1723 residential master plumber having the qualifications, training, experience, and knowledge to

1724 properly plan and layout projects and supervise persons in the plumbing trade as limited to the
1725 plumbing of residential buildings.

1726 (46) (a) "Residential plumbing contractor" means a person licensed under this chapter
1727 as a residential plumbing contractor qualified by education, training, experience, and
1728 knowledge to perform the fabrication or installation of material and fixtures to create and
1729 maintain sanitary conditions in residential buildings by providing permanent means for a
1730 supply of safe and pure water, a means for the timely and complete removal from the premises
1731 of all used or contaminated water, fluid and semi-fluid organic wastes and other impurities
1732 incidental to life and the occupation of such premises, and a safe and adequate supply of gases
1733 for lighting, heating, and residential purposes.

1734 (b) The scope of work of a residential plumbing contractor may be further defined by
1735 rules made by the commission, with the concurrence of the director, in accordance with Title
1736 63G, Chapter 3, Utah Administrative Rulemaking Act.

1737 (47) "Residential project," as it relates to an electrician or electrical contractor, means
1738 buildings primarily wired with nonmetallic sheathed cable, in accordance with standard rules
1739 and regulations governing this work, including the National Electrical Code, and in which the
1740 voltage does not exceed 250 volts line to line and 125 volts to ground.

1741 (48) "Responsible management personnel" means:

- 1742 (a) a qualifying agent;
- 1743 (b) an operations manager; or
- 1744 (c) a site manager.

1745 (49) "Sensitive alarm system information" means:

- 1746 (a) a pass code or other code used in the operation of an alarm system;
- 1747 (b) information on the location of alarm system components at the premises of a
1748 customer of the alarm business providing the alarm system;
- 1749 (c) information that would allow the circumvention, bypass, deactivation, or other
1750 compromise of an alarm system of a customer of the alarm business providing the alarm
1751 system; and
- 1752 (d) any other similar information that the division by rule determines to be information
1753 that an individual employed by an alarm business should use or have access to only if the
1754 individual is licensed as provided in this chapter.

1755 (50) (a) "Specialty contractor" means a person licensed under this chapter under a
1756 specialty contractor classification established by rule, who is qualified by education, training,
1757 experience, and knowledge to perform those construction trades and crafts requiring
1758 specialized skill, the regulation of which are determined by the division to be in the best
1759 interest of the public health, safety, and welfare.

1760 (b) A specialty contractor may perform work in crafts or trades other than those in
1761 which the specialty contractor is licensed if they are incidental to the performance of the
1762 specialty contractor's licensed craft or trade.

1763 (51) "Unincorporated entity" means an entity that is not:

1764 (a) an individual;

1765 (b) a corporation; or

1766 (c) publicly traded.

1767 (52) "Unlawful conduct" means the same as that term is defined in Sections [58-1-501](#)
1768 and [58-55-501](#).

1769 (53) "Unprofessional conduct" means the same as that term is defined in Sections
1770 [58-1-501](#) and [58-55-502](#) and as may be further defined by rule.

1771 (54) "Wages" means amounts due to an employee for labor or services whether the
1772 amount is fixed or ascertained on a time, task, piece, commission, or other basis for calculating
1773 the amount.

1774 Section 13. Section **63N-3-13** is enacted to read:

1775 **63N-3-13. Mass Timber Construction Program.**

1776 (1) A for-profit business may apply to receive a subordinate, low-interest loan from the
1777 restricted account, described in Section [63N-3-103](#), for a mass timber construction project in
1778 the state.

1779 (2) In accordance with this section and in consultation with the GO Utah board, the
1780 administrator may loan up to ten percent of the total hard costs of the mass timber project, not
1781 to exceed \$5,000,000.

1782 (3) The administrator shall designate an application process for a business to apply for
1783 the loan.

1784 (4) To apply for the loan, a borrower shall:

1785 (a) meet the requirements described in Section [63N-3-105](#);

1786 (b) demonstrate that the building will have a floor height of at least 75 feet and that at
1787 least 75% of the approved building height will be structurally supported by mass timber;

1788 (c) provide an economic analysis report that states the economic benefit and impact to
1789 the state; and

1790 (d) create an on-site training program to provide apprenticeship positions for Utah
1791 based apprentices that are a part of the mass timber development throughout the construction
1792 cycle.

1793 (5) "The Go Utah Board" will establish the loan terms.

1794 (6) Money loaned under this section shall be deducted from any other money or
1795 incentive awarded by the office to the business.

1796 Section 14. **Repealer.**

1797 This bill repeals:

1798 Section **15A-6-101**, Title.

1799 Section **15A-6-102**, **Nitrogen Oxide emission limits for natural gas-fired water**
1800 **heaters.**

1801 Section 15. **Effective date.**

1802 This bill takes effect on May 1, 2024.