

1 **UNIFORM CONSTRUCTION CODE AMENDMENTS**

2 2018 GENERAL SESSION

3 STATE OF UTAH

4 **Chief Sponsor: Mike Schultz**

5 Senate Sponsor: Curtis S. Bramble

7 **LONG TITLE**

8 **General Description:**

9 This bill amends the State Construction and Fire Codes Act.

10 **Highlighted Provisions:**

11 This bill:

12 ▶ adds the definition of a "motor vehicle waste disposal well" to the International
13 Plumbing Code;

14 ▶ adds a section regarding the prohibition of certain motor vehicle waste disposal
15 wells to the International Plumbing Code;

16 ▶ amends the International Residential Code;

17 ▶ incorporates by reference the 2017 edition of the National Electrical Code;

18 ▶ amends incorporated provisions of the National Electrical Code; and

19 ▶ makes technical changes.

20 **Money Appropriated in this Bill:**

21 None

22 **Other Special Clauses:**

23 None

24 **Utah Code Sections Affected:**

25 AMENDS:

26 **15A-2-103**, as last amended by Laws of Utah 2016, Chapter 249

27 **15A-3-205**, as last amended by Laws of Utah 2016, Chapter 249

28 **15A-3-206**, as last amended by Laws of Utah 2017, Chapter 236

29 **15A-3-302**, as last amended by Laws of Utah 2016, Chapter 249

30 **15A-3-304**, as last amended by Laws of Utah 2016, Chapter 249

31 **15A-3-601**, as last amended by Laws of Utah 2016, Chapter 249

32

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

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

35 **15A-2-103. Specific editions adopted of construction code of a nationally**
36 **recognized code authority.**

37 (1) Subject to the other provisions of this part, the following construction codes are
38 incorporated by reference, and together with the amendments specified in Chapter 3, Part 3,
39 Statewide Amendments to International Plumbing Code, and Chapter 4, Local Amendments
40 Incorporated as Part of State Construction Code, are the construction standards to be applied to
41 building construction, alteration, remodeling, and repair, and in the regulation of building
42 construction, alteration, remodeling, and repair in the state:

43 (a) the 2015 edition of the International Building Code, including Appendix J, issued
44 by the International Code Council;

45 (b) the 2015 edition of the International Residential Code, issued by the International
46 Code Council;

47 (c) the 2015 edition of the International Plumbing Code, issued by the International
48 Code Council;

49 (d) the 2015 edition of the International Mechanical Code, issued by the International
50 Code Council;

51 (e) the 2015 edition of the International Fuel Gas Code, issued by the International
52 Code Council;

53 (f) the ~~2014~~ 2017 edition of the National Electrical Code, issued by the National Fire
54 Protection Association;

55 (g) the 2015 edition of the International Energy Conservation Code, issued by the
56 International Code Council;

57 (h) the 2015 edition of the International Existing Building Code, issued by the

58 International Code Council;

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

60 (j) subject to Subsection 15A-2-104(1), Appendix E of the 2015 edition of the
61 International Residential Code, issued by the International Code Council; and

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

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

70 Section 2. Section 15A-3-205 is amended to read:

71 **15A-3-205. Amendments to Chapters 26 through 35 of IRC.**

72 (1) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water
73 supply. Where a potable public water supply is not available, individual sources of potable
74 water supply shall be utilized, provided that the source has been developed in accordance with
75 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural
76 Resources, Division of Water Rights. In addition, the quality of the water shall be approved by
77 the local health department having jurisdiction."

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

84 (3) In IRC, Section P2801.8, all words in the first sentence up to the word "water" are
85 deleted.

86 (4) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow assembly
87 testing. The premise owner or the premise owner's designee shall have backflow prevention
88 assemblies operation tested in accordance with administrative rules made by the Drinking
89 Water Board at the time of installation, repair, and relocation and at least on an annual basis
90 thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be
91 performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject
92 to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker
93 Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector
94 Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and
95 Reduced Pressure Detector Assembly. Third-party certification for backflow prevention
96 assemblies will consist of any combination of two certifications, laboratory or field.
97 Acceptable third-party laboratory certifying agencies are ASSE, IAPMO, and USC-FCCCHR.
98 USC-FCCCHR currently provides the only field testing of backflow protection assemblies.
99 Also see www.drinkingwater.utah.gov and rules made by the Drinking Water Board."

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

101 "P2902.1.1 General Installation Criteria.

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

106 P2902.1.2 Specific Installation Criteria.

107 P2902.1.2.1 Reduced Pressure Principle Blackflow Prevention Assembly.

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

110 a. The assembly may not be installed in a pit.

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

113 c. The assembly shall be installed in a horizontal position only, unless listed or approved for

114 vertical installation in accordance with Section 303.4.

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

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

119 P2902.1.2.2 Double Check Valve Backflow Prevention Assembly.

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

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

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

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

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

129 P2902.1.2.3 Pressure Vacuum Break Assembly and Spill Resistant Pressure Vacuum Breaker
130 Assembly.

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

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

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

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

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

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

141 (6) In IRC, Section P2903.9.3, the first sentence is deleted and replaced with the

142 following: "Unless the plumbing appliance or plumbing fixture has a wall-mount valve, shutoff
143 valves shall be required on each fixture supply pipe to each plumbing appliance and to each
144 plumbing fixture other than bathtubs and showers."

145 [~~(6)~~] (7) IRC, Section P2910.5, is deleted and replaced with the following:

146 "P2910.5 Potable water connections.

147 When a potable water system is connected to a nonpotable water system, the potable water
148 system shall be protected against backflow by a reduced pressure backflow prevention
149 assembly or an air gap installed in accordance with Section 2901."

150 [~~(7)~~] (8) IRC, Section P2910.9.5, is deleted and replaced with the following:

151 "P2910.9.5 Makeup water.

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

157 [~~(8)~~] (9) In IRC, Section P2911.12.4, the following words are deleted: "and backwater
158 valves".

159 [~~(9)~~] (10) In IRC, Section P2912.15.6, the following words are deleted: "and backwater
160 valves".

161 [~~(10)~~] (11) In IRC, Section P2913.4.2, the following words are deleted: "and backwater
162 valves".

163 [~~(11)~~] (12) IRC, Section P3009, is deleted and replaced with the following:

164 "P3009 Connected to nonpotable water from on-site water reuse systems.

165 Nonpotable systems utilized for subsurface irrigation for single-family residences shall comply
166 with the requirements of R317-401, UAC, Gray Water Systems."

167 [~~(12)~~] (13) In IRC, Section P3103.6, the following sentence is added at the end of the
168 paragraph: "Vents extending through the wall shall terminate not less than 12 inches from the
169 wall with an elbow pointing downward."

170 ~~[(13)]~~ (14) In IRC, Section P3104.4, the following sentence is added at the end of the
 171 paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor drain
 172 and floor sink installations when installed below grade in accordance with Chapter 30, and
 173 Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."

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

175 **15A-3-206. Amendments to Chapters 37, 39, and 44 and Appendix F of IRC.**

176 (1) In IRC, Section E3705.4.5, the following words are added after the word
 177 "assemblies": "with ungrounded conductors 10 AWG and smaller".

178 ~~[(1)]~~ (2) In IRC, Section E3901.9, the following exception is added:
 179 "Exception: Receptacles or other outlets adjacent to the exterior walls of the garage, outlets
 180 adjacent to an exterior wall of the garage, or outlets in a storage room with entry from the
 181 garage may be connected to the garage branch circuit."

182 ~~[(2)]~~ (3) IRC, Section E3902.16 is deleted.

183 ~~[(3)]~~ (4) In Section E3902.17:

184 (a) following the word "Exception" the number "1." is added; and

185 (b) at the end of the section, the following sentences are added:

186 "2. This section does not apply for a simple move or an extension of a branch circuit or an
 187 outlet which does not significantly increase the existing electrical load. This exception does
 188 not include changes involving remodeling or additions to a residence."

189 ~~[(4)]~~ (5) IRC, Chapter 44, is amended by adding the following reference standard:

"Standard reference number	Title	Referenced in code section number
USC-FCCCHR 10th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table P2902.3"

192 ~~[(5)]~~ (6) (a) When passive radon controls or portions thereof are voluntarily installed,
 193 the voluntary installation shall comply with Appendix F of the IRC.

194 (b) An additional inspection of a voluntary installation described in Subsection [(5)]
195 (6)(a) is not required.

196 Section 4. Section **15A-3-302** is amended to read:

197 **15A-3-302. Amendments to Chapters 1 and 2 of IPC.**

198 (1) A new IPC, Section 101.2.1, is added as follows: "For clarification, the
199 International Private Sewage Disposal Code is not part of the plumbing code even though it is
200 in the same printed volume."

201 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is
202 deleted.

203 (3) In IPC, Section 202, the following definition is added: "Certified Backflow
204 Preventer Assembly Tester. A person who has shown competence to test Backflow prevention
205 assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection
206 **19-4-104(4)**."

207 (4) In IPC, Section 202, the following definition is added: "Contamination (High
208 Hazard). An impairment of the quality of the potable water that creates an actual hazard to the
209 public health through poisoning or through the spread of disease by sewage, industrial fluids or
210 waste."

211 (5) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced
212 with the following: "Cross Connection. Any physical connection or potential connection or
213 arrangement between two otherwise separate piping systems, one of which contains potable
214 water and the other either water of unknown or questionable safety or steam, gas, or chemical,
215 whereby there exists the possibility for flow from one system to the other, with the direction of
216 flow depending on the pressure differential between the two systems (see "Backflow")."

217 (6) In IPC, Section 202, the following definition is added: "Deep Seal Trap. A
218 manufactured or field fabricated trap with a liquid seal of 4" or larger."

219 (7) In IPC, Section 202, the definition for "Essentially Nontoxic Transfer Fluid" is
220 deleted and replaced with the following:

221 "ESSENTIALLY NONTOXIC TRANSFER FLUID. Fluids having a Gosselin rating of 1,

222 including propylene glycol; and mineral oil."

223 (8) In IPC, Section 202, the definition for "Essentially Toxic Transfer Fluid" is deleted
224 and replaced with the following:

225 "ESSENTIALLY TOXIC TRANSFER FLUID. Soil, waste, or gray water; and any fluid that is
226 not an essentially nontoxic transfer fluid under this code."

227 (9) In IPC, Section 202, the following definition is added: "High Hazard. See
228 Contamination."

229 (10) In IPC, Section 202, the following definition is added: "Low Hazard. See
230 Pollution."

231 (11) In IPC, Section 202, the following definition is added: "Motor Vehicle Waste
232 Disposal Well. An injection well that discharges to the subsurface by way of a floor drain,
233 septic system, French drain, dry well, or similar system that receives or has received fluid from
234 a facility engaged in vehicular repair or maintenance activities, including an auto body repair
235 shop, automotive repair shop, new and used car dealership, speciality repair shop, or any other
236 facility that does any vehicular repair work. A motor vehicle waste disposal well is subject to
237 rulemaking under Section 19-5-104 regarding underground injection."

238 [~~(11)~~] (12) In IPC, Section 202, the following definition is added: "Pollution (Low
239 Hazard). An impairment of the quality of the potable water to a degree that does not create a
240 hazard to the public health but that does adversely and unreasonably affect the aesthetic
241 qualities of such potable water for domestic use."

242 [~~(12)~~] (13) In IPC, Section 202, the definition for "Potable Water" is deleted and
243 replaced with the following: "Potable Water. Water free from impurities present in amounts
244 sufficient to cause disease or harmful physiological effects and conforming to the Utah Code,
245 Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and
246 the regulations of the public health authority having jurisdiction."

247 Section 5. Section **15A-3-304** is amended to read:

248 **15A-3-304. Amendments to Chapter 4 of IPC.**

249 (1) In IPC, Table 403.1, the following changes are made:

250 (a) The title for Table 403.1 is deleted and replaced with the following: "Table 403.1,
251 Minimum Number of Required Plumbing Fixtures^{a, h}";

252 (b) In row number "3", for "E" occupancy, in the field for "OTHER", a new footnote g
253 is added.

254 (c) In row number "5", for "I-4 Adult day care and child day care" occupancy, in the
255 field for "OTHER", a new footnote g is added.

256 (d) A new footnote f is added as follows: "FOOTNOTE: f. When provided, in public
257 toilet facilities, there shall be an equal number of diaper changing facilities in male toilet rooms
258 and female toilet rooms. Diaper changing facilities shall meet the requirements of ASTM
259 F2285-04 (2010) Standard Consumer Safety Performance Specifications for Diaper Changing
260 Tables for Commercial Use."

261 (e) A new footnote g is added to the table as follows: "FOOTNOTE g: Non-residential
262 child care facilities shall comply with the additional requirements for sinks in administrative
263 rule made by the Department of Health."

264 (2) A new IPC, Section 406.3, is added as follows: " 406.3 Automatic clothes washer
265 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed in
266 accordance with Section 504.7."

267 (3) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All
268 public toilet rooms in A & E occupancies and M occupancies with restrooms having multiple
269 water closets or urinals shall be equipped with at least one floor drain."

270 (4) A new IPC, Section 412.6, is added as follows: "Prohibition of motor vehicle waste
271 disposal wells. New and existing motor vehicle waste disposal wells are prohibited. A motor
272 vehicle waste disposal well associated with a single family residence is not subject to this
273 prohibition."

274 [~~4~~] (5) IPC, Section 423.3, is deleted.

275 Section 6. Section **15A-3-601** is amended to read:

276 **15A-3-601. General provisions.**

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

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

281 [~~(2) NEC, Section 240.87(B), is modified to add the following as an additional~~
282 ~~approved equivalent means:]~~
283 [~~"6. An instantaneous trip function set at or below the available fault current."]~~

284 (2) In NEC, Section 210.8(B), the words "and three phase receptacles rated 150 volts to
285 ground or less, 100 amperes or less" are deleted.

286 (3) NEC, Section 210.71, is deleted.

287 (4) In NEC, Section 240.67, the words "January 1, 2020" are deleted and replaced with
288 "upon adoption of the 2020 NEC".