

ST	BILL NO.	DOC TYPE	VERSION	LEGIS DATE
UT	HB45	Bill Text	Amended/Substituted	1/28/2010
State Construction Code Adoption				

**H.B. 45**

This document includes House Committee Amendments incorporated into the bill on Thu, Jan 28, 2010 at 11:24 AM by lerror. --> 1

**STATE CONSTRUCTION CODE ADOPTION**

2

2010 GENERAL SESSION

3

STATE OF UTAH

4

**Chief Sponsor: Michael T. Morley**

5

Senate Sponsor: \_\_\_\_\_

6

7 **LONG TITLE**8 **Committee Note:**

9 The Business and Labor Interim Committee recommended this bill.

10 **General Description:**11 This bill adopts the State Construction Code in accordance with the Utah Uniform  
12 Building Standards Act.13 **Highlighted Provisions:**

14 This bill:

- 15 . includes general provisions; and
- 16 . adopts the state construction code.

17 **Monies Appropriated in this Bill:**

18 None

19 **Other Special Clauses:**

20 This bill takes effect on July 1, 2010.

21 **Utah Code Sections Affected:**

22 ENACTS UNCODIFIED MATERIAL

23

24 *Be it enacted by the Legislature of the state of Utah:*25 Section 1. **Title -- Definitions -- General Provisions.**26 (1) This bill is known as the "State Construction Code Adoption Act."27 (2) As used in this bill:

28

(a) "Division" means the Division of Occupational and Professional Licensing created  
29 in Utah Code, Section 58-1-103.

30 (b) "State Construction Code" means the code adopted under Section 2 of this bill.31 (c) "Utah Code" means the Utah Code Annotated (1953), as amended.

32 (3) As part of the division's compliance with Utah Code, Section 58-56-6, the division  
 33 may modify the format of the state construction code to provide accessibility to users of the  
 34 State Construction Code.

35 **Section 2. State Construction Code adopted.**

36 In accordance with Utah Code, Title 58, Chapter 56, Utah Uniform Building Standards  
 37 Act, the Legislature, repeals the state construction code in effect on June 30, 2010, and

adopts

38 the following as the State Construction Code effective July 1, 2010:  
 39

**State Construction Code**

40

**Part 1. General Provisions**

41 **Section 101. Specific editions of construction codes of a nationally recognized code**  
 42 **authority adopted -- Scope of application.**

43 (1) (a) Subject to the limitations contained in Subsections (4), (5), and (6), the  
 44 following construction codes are incorporated by reference, and together with the

amendments

45 specified under this bill, are the construction standards to be applied to building

construction,

46 alteration, remodeling, and repair, and in the regulation of building construction,

alteration,

47 remodeling and repair in the state:

48 (i) the 2009 edition of the International Building Code (IBC), including Appendix J,  
 49 issued by the International Code Council;

50 (ii) the 2008 edition of the National Electrical Code (NEC), issued by the National Fire  
 51 Protection Association;

52 (iii) the 2009 edition of the International Plumbing Code (IPC), issued by the  
 53 International Code Council;

54 (iv) the 2009 edition of the International Mechanical Code (IMC), issued by the  
 55 International Code Council;

56 (v) the 2009 edition of the International Residential Code (IRC), issued by the  
 57 International Code Council;

58 (vi) the 2009 edition of the International Energy Conservation Code (IECC), issued by

59

the International Code Council;

60 (vii) the 2009 edition of the International Fuel Gas Code (IFGC), issued by the  
 61 International Code Council;

62 (viii) subject to Subsection (3), the Federal Manufactured Housing Construction and  
 63 Safety Standards Act (HUD Code), as issued by the Department of Housing and Urban  
 64 Development and published in 24 C.F.R. Parts 3280 and 3282 (as revised April 1, 1990);

65 (ix) subject to Subsection (2), Appendix E of the 2009 edition of the International  
 66 Residential Code, issued by the International Code Council; and

67 (x) subject to Subsection (2), the 2005 edition of the NFPA 225 Model Manufactured  
 68 Home Installation Standard, issued by the National Fire Protection Association.

69 (b) Consistent with Title 65A, Chapter 8, Management of Forest Lands and Fire

70 Control, the Legislature adopts the 2006 edition of the Utah Wildland Urban Interface

Code

71 (UWUI) issued by the International Code Council, with the alternatives or amendments  
 72 approved by the Utah Division of Forestry, as a construction code that may be adopted by  
a  
 73 local compliance agency by local ordinance or other similar action as a local amendment  
to the  
 74 codes listed in this Subsection (1).  
 75 \_\_\_\_ (2) The following are the installation standards for manufactured housing for new  
 76 installations or for existing manufactured or mobile homes that are subject to relocation,  
 77 building alteration, remodeling, or rehabilitation in the state:  
 78 \_\_\_\_ (a) The manufacturer's installation instruction for the model being installed is the  
 79 primary standard.  
 80 \_\_\_\_ (b) If the manufacturer's installation instruction for the model being installed is not  
 81 available or is incomplete, the following standards apply:  
 82 \_\_\_\_ (i) Appendix E of the 2009 edition of the IRC, as issued by the International Code  
 83 Council for installations defined in Section AE101 of Appendix E; or  
 84 \_\_\_\_ (ii) if an installation is beyond the scope of the 2009 edition of the IRC as defined in  
 85 Section AE101 of Appendix E, the 2005 edition of the NFPA 225 Model Manufactured  
Home  
 86 Installation Standard, issued by the National Fire Protection Association.  
 87 \_\_\_\_ (c) A manufacturer, dealer, or homeowner is permitted to design for unusual  
 88 installation of a manufactured home not provided for in the manufacturer's standard  
installation  
 89 instruction Appendix E of the 2009 edition of the IRC, or the 2005 edition of the NFPA  
225, if

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90  
the design is approved in writing by a professional engineer or architect licensed in Utah.  
 91 \_\_\_\_ (d) For a mobile home built before June 15, 1976, the home shall also comply with the  
 92 additional installation and safety requirements specified in State Construction Code,  
Section  
 93 208.  
 94 \_\_\_\_ (3) Pursuant to the HUD Code Section 604(d), a manufactured home may be installed  
 95 in the state that does not meet the local snow load requirements as specified in State  
 96 Construction Code, Section 202, except that the manufactured home shall have a protective  
 97 structure built over the home that meets the IRC and the snow load requirements under  
State  
 98 Construction Code, Section 202.  
 99 \_\_\_\_ (4) To the extent that a construction code adopted under Subsection (1) establishes a  
 100 local administrative function or establishes a method of appeal which pursuant to Utah  
Code,  
 101 Section 58-56-8 is designated to be established by the compliance agency:  
 102 \_\_\_\_ (a) that provision of the construction code is not included in the State Construction  
 103 Code; and  
 104 \_\_\_\_ (b) a compliance agency may establish provisions to establish a local administrative  
 105 function or a method of appeal.  
 106 \_\_\_\_ (5) (a) To the extent that a construction code adopted under Subsection (1) establishes  
 107 a provision, standard, or reference to another code that by state statute is designated to  
be  
 108 established or administered by another state agency, or a local city, town, or county  
 109 jurisdiction:

110 (i) that provision of the construction code is not included in the State Construction  
 111 Code; and  
 112 (ii) the agency or local government has authority over that provision of the  
construction  
 113 code.  
 114 (b) Provisions excluded under this Subsection (5) include:  
 115 (i) the International Property Maintenance Code;  
 116 (ii) the International Private Sewage Disposal Code, authority over which is reserved  
to  
 117 the Department of Health and the Department of Environmental Quality;  
 118 (iii) the International Fire Code, authority over which is reserved to the Utah Fire  
 119 Prevention Board, pursuant to Utah Code, Section 53-7-106 ;  
 120 (iv) a day care provision that is in conflict with Utah Code, Title 26, Chapter 39, Utah

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121 Child Care Licensing Act, authority over which is designated to the Utah Department of  
 122 Health; and  
 123 (v) a wildland urban interface provision that goes beyond the authority under Utah  
 124 Code, Section 58-56-4, for the State Construction Code, authority over which is  
designated to  
 125 the Utah Division of Forestry or to a local compliance agency.  
 126 (6) If a construction code adopted under Subsection (1) establishes a provision that  
 127 exceeds the scope described in Title 58, Chapter 56, Utah Uniform Building Standards  
Act, to  
 128 the extent the scope is exceeded, the provision is not included in the State Construction  
Code.  
 129

## **Part 2. Statewide Amendments**

130 **Section 201. Statewide amendments to the IBC.**  
 131 The following are adopted as amendments to the IBC to be applicable statewide:  
 132 (1) IBC, Section 106, is deleted.  
 133 (2) (a) In IBC, Section 110, a new section is added as follows: "110.3.5,  
 134 Weather-resistant exterior wall envelope. An inspection shall be made of the weather-  
resistant  
 135 exterior wall envelope as required by Section 1403.2, and flashing as required by Section  
 136 1405.4 to prevent water from entering the weather-resistive barrier."  
 137 (b) The remaining sections of IBC, Section 110, are renumbered as follows: 110.3.6,  
 138 Lath or gypsum board inspection; 110.3.7, Fire-and smoke-resistant penetrations;  
110.3.8  
 139 Energy efficiency inspections; 110.3.9 Other inspections; 110.3.10 Special inspections;  
 140 110.3.11 Final inspection.  
 141 (3) IBC, Section 115.1, is deleted and replaced with the following: "115.1 Authority.  
 142 Whenever the building official finds any work regulated by this code being performed in a  
 143 manner either contrary to the provisions of this code or other pertinent laws or  
ordinances or  
 144 dangerous or unsafe, the building official is authorized to stop work."  
 145 (4) In IBC, Section 202, the definition for "Assisted Living Facility" is deleted and  
 146 replaced with the following: "ASSISTED LIVING FACILITY. See Section 308.1.1."  
 147 (5) In IBC, Section 202, the definition for "Child Care Facilities" is deleted and

148 replaced with the following: "CHILD CARE FACILITIES. See Section 308.3.1."  
 149 (6) In the list in IBC, Section 304.1, "Ambulatory health care facilities" is deleted and  
 150 replaced with "Ambulatory health care facilities with four or fewer surgical operating  
rooms."  
 151 (7) IBC, Section 305.2, is deleted and replaced with the following: "305.2 Day care.

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152  
The use of a building or structure, or portion thereof, for educational, supervision, child day  
 153 care centers, or personal care services of more than four children shall be classified as a  
Group  
 154 E occupancy. See Section 424 for special requirements for Group E child day care  
centers.  
Family  
 155 Exception: Areas used for child day care purposes with a Residential Certificate or a  
 156 License, as defined in Utah Administrative Code, R430-90 Licensed Family Child Care,  
may  
 157 be located in a Group R-2 or R-3 occupancy as provided in Section 310.1 or shall comply  
with  
Hourly  
 158 the International Residential Code in accordance with Section 101.2. Areas used for  
 159 Child Care Centers, as defined in Utah Administrative Code, R430-60, or Out of School  
Time  
 160 Programs, as defined in Utah Administrative Code, R430-70, may be classified as  
accessory  
 161 occupancies."  
 162 (8) In IBC, Section 308, the following definitions are added: "308.1.1 Definitions. The  
 163 following words and terms shall, for the purposes of this section and as used elsewhere in  
this  
 164 code, have the meanings shown herein.  
 165 TYPE I ASSISTED LIVING FACILITY. A residential facility licensed by the Utah  
 166 Department of Health that provides a protected living arrangement for ambulatory,  
 167 non-restrained persons who are capable of achieving mobility sufficient to exit the facility  
 168 without the assistance of another person.  
 169 TYPE II ASSISTED LIVING FACILITY. A residential facility licensed by the Utah  
 170 Department of Health that provides an array of coordinated supportive personal and  
health care  
 171 services to residents who meet the definition of semi-independent.  
 172 SEMI-INDEPENDENT. A person who is:  
 173 A. Physically disabled but able to direct his or her own care; or  
 174 B. Cognitively impaired or physically disabled but able to evacuate from the facility with  
the  
 175 physical assistance of one person.  
 176 RESIDENTIAL TREATMENT/SUPPORT ASSISTED LIVING FACILITY. A residential  
 177 treatment/support assisted living facility which creates a group living environment for  
four or  
 178 more residents licensed by the Utah Department of Human Services, and provides a  
protected  
 179 living arrangement for ambulatory, non-restrained persons who are capable of achieving  
 180 mobility sufficient to exit the facility without the physical assistance of another person."  
 181 (9) In IBC, Section 308.2, the words "Assisted living facilities" are deleted and

182 replaced with "Type I Assisted living facilities."

183

(10) IBC, Section 308.3, is deleted and replaced with the following: "308.3 Group I-2.

184 This occupancy shall include buildings and structures used for medical, surgical,  
 185 psychiatric,

186 nursing, or custodial care on a 24-hour basis of more than three persons who are not  
 187 capable of

188 self-preservation. This group shall include, but not be limited to the following: hospitals,  
 189 nursing homes (both intermediate care facilities and skilled nursing facilities), mental

190 hospitals,  
 191 detoxification facilities, ambulatory surgical centers with five or more operating rooms

192 where  
 193 care is less than 24 hours, and type II assisted living facilities. Type II assisted living

194 facilities  
 195 with five or fewer persons shall be classified as a Group R-4. Type II assisted living

196 facilities  
 197 as defined in 308.1.1 with at least six and not more than sixteen residents shall be

198 classified as  
 199 a Group I-1 facility."

200 (11) In IBC, Section 308.3.1, the definition for "CHILD CARE FACILITIES" is  
 201 deleted and replaced with the following: "CHILD CARE FACILITIES. A child care

202 facility, as  
 203 licensed by the Department of Human Services in Utah Administrative Code, R501, that

204 provides care on a 24-hour basis to more than four children 2 1/2 years of age or less  
 205 shall be

206 classified as Group I-2."

207 (12) IBC, Section 308.5, is deleted and replaced with the following: "308.5 Group I-4,  
 208 day care facilities. This group shall include buildings and structures occupied by persons

209 of any  
 210 age who receive custodial care less than 24 hours by individuals other than parents or

211 guardians, relatives by blood, marriage, or adoption, and in a place other than the home  
 212 of the

213 person cared for. A facility such as the above with four or fewer persons shall be  
 214 classified as

215 an R-3 or shall comply with the International Residential Code in accordance with  
 216 Section

217 101.2. Places of worship during religious functions and Group E child day care centers  
 218 are not

219 included."

220 (13) IBC, Section 308.5.2, is deleted.

221 (14) In IBC, Section 310.1, in the subsection designated as R-1, at the end of the  
 222 sentence beginning with "Congregate living facilities" the following is added: "or shall

223 comply  
 224 with the International Residential Code."

225 (15) In IBC, Section 310.1, in the subsection designated as R-2, at the end of the  
 226 sentence beginning with "Congregate living facilities" the following is added: "or shall

227 comply  
 228 with the International Residential Code."

229 (16) In IBC, Section 310.1, the following is added at the end of the subsection

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214  
*designated as R-3: "Areas used for day care purposes may be located in a residential dwelling*  
215 *unit under all of the following conditions:*  
216 *1. Compliance with the Utah Administrative Code, R710-8, Day Care Rules, as enacted*  
*under*  
217 *the authority of the Utah Fire Prevention Board.*  
218 *2. Use is approved by the State Department of Health, as enacted under the authority of*  
*the*  
219 *Utah Code, Title 26, Chapter 39, Utah Child Care Licensing Act, and in any of the*  
*following*  
220 *categories:*  
221 *a. Utah Administrative Code, R430-50, Residential Certificate Child Care.*  
222 *b. Utah Administrative Code, R430-90, Licensed Family Child Care.*  
223 *3. Compliance with all zoning regulations of the local regulator."*  
224 *(17) In IBC, Section 310.1, the subsection designated as R-4 is deleted and replaced*  
225 *with the following: "R-4: Residential occupancies shall include buildings arranged for*  
226 *occupancy as Type I Assisted Living Facilities or Residential Treatment/Support Assisted*  
227 *Living Facilities including more than five but not more than 16 residents, excluding staff.*  
228 *Group R-4 occupancies shall meet the requirements for construction as defined for Group*  
*R-3*  
229 *except as otherwise provided for in this code."*  
230 *(18) In IBC, Section 310.2, the definition for "Residential Care/Assisted Living*  
231 *Facilities" is deleted and replaced with the following: "Assisted Living Facilities, see*  
*Section*  
232 *308.1.1".*  
233 *(19) Section IBC, 403.5.5, is deleted.*  
234 *(20) In IBC, Section 422.1, the words "Sections 422.1 to 422.6" are replaced with*  
235 *"Sections 422.1 to 422.7".*  
236 *(21) In IBC, Section 422, a new section is added as follows: "422.7 Separation.*  
237 *Occupancies classified as Group B Ambulatory Health Care Facilities shall be separated*  
*from*  
238 *all surrounding tenants and occupancies in accordance with Table 508.4 but not less than*  
239 *one-hour fire barrier when the suite is capable of providing care for four or more care*  
*recipients*  
240 *who are incapable of self preservation."*  
241 *(22) A new IBC, Section 424, is added as follows: "Section 424 Group E Child Day*  
242 *Care Centers. Group E child day care centers shall comply with Section 424.*  
243 *424.1 Location at grade. Group E child day care centers shall be located at the level of*  
*exit*  
244 *discharge.*

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245  
*Exception: Child day care spaces for children over the age of 24 months may be located on the*  
246 *second floor of buildings equipped with automatic fire protection throughout and an*  
*automatic*  
247 *fire alarm system.*  
248 *424.2 Egress. All Group E child day care spaces with an occupant load of more than 10*  
*shall*  
249 *have a second means of egress. If the second means of egress is not an exit door leading*  
250 *directly to the exterior, the room shall have an emergency escape and rescue window*

251 complying with Section 1029.  
 252 424.3 All Group E Child Day Care Centers shall comply with Utah Administrative Code,  
 253 R430-100 Child Care Centers."  
 254 (23) In IBC, Section 504.2, a new section is added as follows: "504.2.1  
 255 Notwithstanding the exceptions to Section 504.2, Group I-2 Assisted Living Facilities  
shall be  
 256 allowed to be two stories of Type V-A construction when all of the following apply:  
 257 1. All secured units are located at the level of exit discharge in compliance with Section  
 258 1008.1.9.3 as amended;  
 259 2. The total combined area of both stories shall not exceed the total allowable area for a  
 260 one-story building; and  
 261 3. All other provisions that apply in Section 407 have been provided."  
 262 (24) In IBC, Table 508.4, a new footnote g is added as follows: "g. See Section 422.7  
 263 for additional requirements of Group B Ambulatory Health Care Facilities."  
 264 (25) In IBC, Section 707.5.1, a new exception 4 is added as follows: "4. Group B  
 265 Ambulatory Health Care Facilities."  
 266 (26) In IBC, Section (F)902, the definition for record drawings is deleted and replaced  
 267 with the following: "(F)RECORD DRAWINGS. Drawings ("as built") that document all  
 268 aspects of a fire protection system as installed."  
 269 (27) In IBC, Section (F)903.2.2, the words "all fire areas" are deleted and replaced  
with  
 270 "buildings".  
 271 (28) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the following:  
 272 "2. A Group F-1 fire area is located more than three stories above the lowest level of fire  
 273 department vehicle access."  
 274 (29) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the following:  
 275 "2. A Group M fire area is located more than three stories above the lowest level of fire  


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 276 department vehicle access."  
 277 (30) IBC, Section (F)903.2.8, is deleted and replaced with the following: "(F)903.2.8  
 278 Group R. An automatic sprinkler system installed in accordance with Section 903.3 shall  
be  
 279 provided throughout all buildings with a Group R fire area.  
 280 Exceptions:  
 281 1. Detached one- and two-family dwellings and multiple single-family dwellings  
(townhouses)  
 282 constructed in accordance with the International Residential Code For One- and Two-  
Family  
 283 Dwellings.  
 284 2. Group R-4 fire areas not more than 4,500 gross square feet and not containing more  
than 16  
 285 residents, provided the building is equipped throughout with an approved fire alarm  
system that  
 286 is interconnected and receives its primary power from the building wiring and a  
commercial  
 287 power system."  
 288 (31) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the following:  
 289 "2. A Group S-1 fire area is located more than three stories above the lowest level of fire  
 290 department vehicle access."

291 (32) IBC, Section (F)903.2.10, is deleted and replaced with the following: "(F)903.2.10  
 292 Group S-2. An automatic sprinkler system shall be provided throughout buildings  
*classified as*  
 293 parking garages in accordance with Section 406.2 or where located beneath other  
*groups.*  
 294 Exception 1: Parking garages of less than 5,000 square feet (464 m2) accessory to Group  
*R-3*  
 295 occupancies.  
 296 Exception 2: Open parking garages not located beneath other groups if one of the  
*following*  
 297 conditions is met:  
 298 a. Access is provided for fire fighting operations to within 150 feet (45,720 mm) of all  
 299 portions of the parking garage as measured from the approved fire department vehicle  
*access;*  
 300 or  
 301 b. Class I standpipes are installed throughout the parking garage."  
 302 (33) In IBC, Section (F)903.2.10.1, the last clause "where the fire area exceeds 5,000  
 303 square feet (464 m2)" is deleted.  
 304 (34) IBC, Section (F)904.11, is deleted and replaced with the following: "(F)904.11  
 305 Commercial cooking systems. The automatic fire-extinguishing system for commercial  
 306 cooking systems shall be of a type recognized for protection of commercial cooking  
*equipment*

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307  
*and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in*  
 308 accordance with UL 300 and listed and labeled for the intended application. The system  
*shall*  
 309 be installed in accordance with this code, its listing and the manufacturer's installation  
 310 instructions.  
 311 Exception: Factory-built commercial cooking recirculating systems that are tested in  
 312 accordance with UL 710B and listed, labeled, and installed in accordance with Section  
*304.1 of*  
 313 the International Mechanical Code."  
 314 (35) IBC, Subsections (F)904.11.3, (F)904.11.3.1, (F)904.11.4, and (F)904.11.4.1, are  
 315 deleted.  
 316 (36) A new IBC, Section (F)907.9, is added as follows: "Section (F)907.9 Carbon  
 317 monoxide alarms. Carbon monoxide alarms shall be installed on each habitable level of a  
 318 dwelling unit or sleeping unit in Groups R-2, R-3, R-4, and I-1 equipped with fuel burning  
 319 appliances and in dwelling units that have attached garages. If more than one carbon  
*monoxide*  
 320 alarm is required, they shall be interconnected as required in the International Fire  
*Code,*  
 321 Chapter 9, Section 907.2.11.3. In new construction, carbon monoxide alarms shall  
*receive their*  
 322 primary power as required in the International Fire Code, Chapter 9, Section 907.2.11.4.  
*Listed*  
 323 single- and multiple-station carbon monoxide alarms shall comply with UL 2034 and  
*shall be*  
 324 installed in accordance with the provisions of this code and NFPA 720."  
 325 (37) In IBC, Section 1008.1.9.6:

326 (a) the words "Group I-1 and" are added in the title and in the first sentence before the  
 327 words "Group I-2";  
 328 (b) the word "delayed" is deleted throughout and replaced with "controlled"; and  
 329 (c) the last sentence before the numbered subsections 1 through 6 is deleted.  
 330 (38) In IBC, Section 1009.4.2, exception 5 is deleted and replaced with the following:  
 331 "5. In Group R-3 occupancies, within dwelling units in Group R-2 occupancies, and in  
Group  
 332 U occupancies that are accessory to a Group R-3 occupancy, or accessory to individual  
 333 dwelling units in Group R-2 occupancies, the maximum riser height shall be 8 inches  
(203  
 334 mm) and the minimum tread depth shall be 9 inches (229 mm). The minimum winder  
tread  
 335 depth at the walk line shall be 10 inches (254 mm), and the minimum winder tread depth  
shall  
 336 be 6 inches (152 mm). A nosing not less than 0.75 inch (19.1 mm) but not more than 1.25  
 337 inches (32 mm) shall be provided on stairways with solid risers where the tread depth is  
less

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338 than 10 inches (254 mm)."  
 339 (39) In IBC, Section 1009.12, a new exception 6 is added as follows: "6. In  
 340 occupancies in Group R-3, as applicable in Section 101.2 and in occupancies in Group  
U,  
 341 which are accessory to an occupancy in Group R-3, as applicable in Section 101.2,  
handrails  
 342 shall be provided on at least one side of stairways consisting of four or more risers."  
 343 (40) In IBC, Section 1013.2, the words "adjacent fixed seating" are deleted.  
 344 (41) In IBC, Section 1013.2, a new exception 5 is added as follows: "5. For  
 345 occupancies in Group R-3 and within individual dwelling units in occupancies in Group  
R-2,  
 346 as applicable in Section 101.2, guards shall form a protective barrier not less than 36  
inches  
 347 (914 mm) in height."  
 348 (42) In IBC, Section 1015.2.2, the following sentence is added at the end: "Additional  
 349 exits or exit access doorways shall be arranged a reasonable distance apart so that if one  
 350 becomes blocked, the others will be available."  
 351 (43) IBC, Section 1024, is deleted.  
 352 (44) A new IBC, Section 1109.7.1, is added as follows: "1109.7.1 Platform  
 353 (wheelchair) lifts. All platform (wheelchair) lifts shall be capable of independent  
operation  
 354 without a key."  
 355 (45) In IBC, Section 1208.4, subparagraph 1 is deleted and replaced with the  
 356 following: "1. The unit shall have a living room of not less than 165 square feet (15.3 m2)  
of  
 357 floor area. An additional 100 square feet (9.3 m2) of floor area shall be provided for each  
 358 occupant of such unit in excess of two."  
 359 (46) In IBC, Table 1604.5, Occupancy Category III, in the sentence that begins Group  
 360 I-2, a new footnote b is added as follows: "b. Type II Assisted Living Facilities that are I-  
 2  
 361 occupancy classifications in accordance with Section 308 shall be Occupancy Category II

*in*

362 *this table."*  
 363 *(47) In IBC, Section 1605.2.1, the formula shown as " $f_2 = 0.2$  for other roof*  
 364 *configurations" is deleted and replaced with the following: " $f_2 = 0.20 + .025(A-5)$  for*

*other*

365 *configurations where roof snow load exceeds 30 psf;*  
 366  *$f_2 = 0$  for roof snow loads of 30 psf (1.44kN/m<sup>2</sup>) or less.*  
 367 *Where A = Elevation above sea level at the location of the structure (ft/1000)."*  
 368 *(48) In IBC, Section 1605.3.1 and Section 1605.3.2, exception 2 in each section is*

369

*deleted and replaced with the following: "2. Flat roof snow loads of 30 pounds per square foot*  
 370 *(1.44 kNm<sup>2</sup>) or less need not be combined with seismic loads. Where flat roof snow loads*  
 371 *exceed 30 pounds per square foot (1.44 kNm<sup>2</sup>), the snow loads may be reduced in*

*accordance*

372 *with the following in load combinations including both snow and seismic loads.  $W_s$  as*  
 373 *calculated below, shall be combined with seismic loads.*

374  *$W_s = (0.20 + 0.025(A-5))P_f$  is greater than or equal to  $0.20 P_f$ .*

375 *Where:*

376  *$W_s$  = Weight of snow to be included in seismic calculations;*

377 *A = Elevation above sea level at the location of the structure (ft/1000)*

378  *$P_f$  = Design roof snow load, psf;*

379 *For the purpose of this section, snow load shall be assumed uniform on the roof footprint*  
 380 *without including the effects of drift or sliding. The Importance Factor, I, used in*

*calculating  $P_f$*

381 *may be considered 1.0 for use in the formula for  $W_s$ ."*

382 *(49) IBC, Section 1608.1, is deleted and replaced with the following: "1608.1 General.*  
 383 *Except as modified in section 1608.1.1, 1608.1.2, and 1608.1.3 design snow loads shall*

*be*

384 *determined in accordance with Chapter 7 of ASCE 7, but the design roof load shall not be*

*less*

385 *than that determined by Section 1607."*

386 *(50) A new IBC, Section 1608.1.1, is added as follows: "1608.1.1 Section 7.4.5 of*  
 387 *Chapter 7 of ASCE 7 referenced in Section 1608.1 of the IBC is deleted and replaced with*

*the*

388 *following: "Section 7.4.5 Ice Dams and Icicles Along Eaves. Where ground snow loads*

*exceed*

389 *75 psf, eaves shall be capable of sustaining a uniformly distributed load of  $2p_f$  on all*  
 390 *overhanging portions. No other loads except dead loads shall be present on the roof when*

*this*

391 *uniformly distributed load is applied. All building exits under down-slope eaves shall be*  
 392 *protected from sliding snow and ice."*

393 *(51) In IBC, Section 1608.1.2, a new section is added as follows: "1608.1.2 Utah Snow*  
 394 *Loads. The ground snow load,  $P_g$ , to be used in the determination of design snow loads*

*for*

395 *buildings and other structures shall be determined by using the following formula:  $P_g =$*

*( $P_o/2 +$*

396  *$S_2(A-A_o)/2$ )0.5 for A greater than  $A_o$ , and  $P_g = P_o$  for A less than or equal to  $A_o$ .*

397 *WHERE:*

398  *$P_g$  = Ground snow load at a given elevation (psf);*

399  $P_o =$  Base ground snow load (psf) from Table No. 1608.1.2(a);

400

$S =$  Change in ground snow load with elevation (psf/100 ft.) From Table No. 1608.1.2(a);

401  $A =$  Elevation above sea level at the site (ft./1000);

402  $A_o =$  Base ground snow elevation from Table 1608.1.2(a) (ft./1000).

403 The building official may round the roof snow load to the nearest 5 psf. The ground snow load, data data

404  $P_g$ , may be adjusted by the building official when a licensed engineer or architect submits

405 substantiating the adjustments. A record of such action together with the substantiating

406 shall be provided to the division for a permanent record.

407 The building official may also directly adopt roof snow loads in accordance with Table

408 1608.1.2(b), provided the site is no more than 100 ft. higher than the listed elevation.

409 Where the minimum roof live load in accordance with section 1607.11 is greater than the

410 design roof snow load, such roof live load shall be used for design, however, it shall not

be

411 reduced to a load lower than the design roof snow load. Drifting need not be considered

for

412 roof snow loads less than 20 psf."

413 (52) IBC, Table 1608.1.2(a) and Table 1608.1.2(b), are added as follows:

414

"TABLE NO. 1608.1.2(a)

415

STATE OF UTAH - REGIONAL SNOW LOAD FACTORS

COUNTY	$P_o$	$S$	$A_o$
Beaver	43	63	6.2
Box Elder	43	63	5.2
Cache	50	63	4.5
Carbon	43	63	5.2
Daggett	43	63	6.5
Davis	43	63	4.5
Duchesne	43	63	6.5
Emery	43	63	6.0
Garfield	43	63	6.0
Grand	36	63	6.5
Iron	43	63	5.8
Juab	43	63	5.2
Kane	36	63	5.7
Millard	43	63	5.3

431

Morgan 57 63 4.5

432 Piute 43 63 6.2

433 Rich 57 63 4.1

434 Salt Lake 43 63 4.5

435 San Juan 43 63 6.5

436	<u>Sanpete</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
437	<u>Sevier</u>	<u>43</u>	<u>63</u>	<u>6.0</u>
438	<u>Summit</u>	<u>86</u>	<u>63</u>	<u>5.0</u>
439	<u>Tooele</u>	<u>43</u>	<u>63</u>	<u>4.5</u>
440	<u>Uintah</u>	<u>43</u>	<u>63</u>	<u>7.0</u>
441	<u>Utah</u>	<u>43</u>	<u>63</u>	<u>4.5</u>
442	<u>Wasatch</u>	<u>86</u>	<u>63</u>	<u>5.0</u>
443	<u>Washington</u>	<u>29</u>	<u>63</u>	<u>6.0</u>
444	<u>Wayne</u>	<u>36</u>	<u>63</u>	<u>6.5</u>
445	<u>Weber</u>	<u>43</u>	<u>63</u>	<u>4.5</u>
446				

TABLE NO. 1608.1.2(b)

447

RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)

448		<u>Roof Snow</u>	<u>Ground Snow</u>	
449		<u>Load (PSF)</u>	<u>Load (PSF)</u>	
450	<u>Beaver County</u>			
451	<u>Beaver</u>	<u>5920 ft.</u>	<u>43</u>	<u>62</u>
452	<u>Box Elder County</u>			
453	<u>Brigham City</u>	<u>4300 ft.</u>	<u>30</u>	<u>43</u>
454	<u>Tremonton</u>	<u>4290 ft.</u>	<u>30</u>	<u>43</u>
455	<u>Cache County</u>			
456	<u>Logan</u>	<u>4530 ft.</u>	<u>35</u>	<u>50</u>
457	<u>Smithfield</u>	<u>4595 ft.</u>	<u>35</u>	<u>50</u>
458	<u>Carbon County</u>			
459	<u>Price</u>	<u>5550 ft.</u>	<u>30</u>	<u>43</u>
460	<u>Daggett County</u>			
461	<u>Manila</u>	<u>5377 ft.</u>	<u>30</u>	<u>43</u>
<hr/>				
462	<u>Davis County</u>			
463	<u>Bountiful</u>	<u>4300 ft.</u>	<u>30</u>	<u>43</u>
464	<u>Farmington</u>	<u>4270 ft.</u>	<u>30</u>	<u>43</u>
465	<u>Layton</u>	<u>4400 ft.</u>	<u>30</u>	<u>43</u>
466	<u>Fruit Heights</u>	<u>4500 ft.</u>	<u>40</u>	<u>57</u>
467	<u>Duchesne County</u>			
468	<u>Duchesne</u>	<u>5510 ft.</u>	<u>30</u>	<u>43</u>
469	<u>Roosevelt</u>	<u>5104 ft.</u>	<u>30</u>	<u>43</u>
470	<u>Emery County</u>			
471	<u>Castledale</u>	<u>5660 ft.</u>	<u>30</u>	<u>43</u>
472	<u>Green River</u>	<u>4070 ft.</u>	<u>25</u>	<u>36</u>
473	<u>Garfield County</u>			
474	<u>Panguitch</u>	<u>6600 ft.</u>	<u>30</u>	<u>43</u>
475	<u>Grand County</u>			
476	<u>Moab</u>	<u>3965 ft.</u>	<b>H. [ 5 ] 25 .H</b>	<u>36</u>
477	<u>Iron County</u>			
478	<u>Cedar City</u>	<u>5831 ft.</u>	<u>30</u>	<u>43</u>
479	<u>Juab County</u>			

480	<u>Nephi</u>	5130 ft.	30	43
481	<u>Kane County</u>			
482	<u>Kanab</u>	5000 ft.	25	36
483	<u>Millard County</u>			
484	<u>Millard</u>	5000 ft.	30	43
485	<u>Delta</u>	4623 ft.	30	43
486	<u>Morgan County</u>			
487	<u>Morgan</u>	5064 ft.	40	57
488	<u>Piute County</u>			
489	<u>Piute</u>	5996 ft.	30	43
490	<u>Rich County</u>			
491	<u>Woodruff</u>	6315 ft.	40	57
492	<u>Salt Lake County</u>			

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493				
	<u>Murray</u>	4325 ft.	30	43
494	<u>Salt Lake City</u>	4300 ft.	30	43
495	<u>Sandy</u>	4500 ft.	30	43
496	<u>West Jordan</u>	4375 ft.	30	43
497	<u>West Valley</u>	4250 ft.	30	43
498	<u>San Juan County</u>			
499	<u>Blanding</u>	6200 ft.	30	43
500	<u>Monticello</u>	6820 ft.	35	50
501	<u>Sanpete County</u>			
502	<u>Fairview</u>	6750 ft.	35	50
503	<u>Mt. Pleasant</u>	5900 ft.	30	43
504	<u>Manti</u>	5740 ft.	30	43
505	<u>Ephraim</u>	5540 ft.	30	43
506	<u>Gunnison</u>	5145 ft.	30	43
507	<u>Sevier County</u>			
508	<u>Salina</u>	5130 ft.	30	43
509	<u>Richfield</u>	5270 ft.	30	43
510	<u>Summit County</u>			
511	<u>Coalville</u>	5600 ft.	60	86
512	<u>Kamas</u>	6500 ft.	70	100
513	<u>Park City</u>	6800 ft.	100	142
514	<u>Park City</u>	8400 ft.	162	231
515	<u>Summit Park</u>	7200 ft.	90	128
516	<u>Tooele County</u>			
517	<u>Tooele</u>	5100 ft.	30	43
518	<u>Uintah County</u>			
519	<u>Vernal</u>	5280 ft.	30	43
520	<u>Utah County</u>			
521	<u>American Fork</u>	4500 ft.	30	43
522	<u>Orem</u>	4650 ft.	30	43
523	<u>Pleasant Grove</u>	5000 ft.	30	43

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524				
	<u>Provo</u>	5000 ft.	30	43
525	<u>Spanish Fork</u>	4720 ft.	30	43

526	<u>Wasatch County</u>			
527	<u>Heber</u>	5630 ft.	60	86
528	<u>Washington County</u>			
529	<u>Central</u>	5209 ft.	25	36
530	<u>Dameron</u>	4550 ft.	25	36
531	<u>Leeds</u>	3460 ft.	20	29
532	<u>Rockville</u>	3700 ft.	25	36
533	<u>Santa Clara</u>	2850 ft.	15 (1)	21
534	<u>St. George</u>	2750 ft.	15 (1)	21
535	<u>Wayne County</u>			
536	<u>Loa</u>	7080 ft.	30	43
537	<u>Hanksville</u>	4308 ft.	25	36
538	<u>Weber County</u>			
539	<u>North Ogden</u>	4500 ft.	40	57
540	<u>Ogden</u>	4350 ft.	30	43

541 NOTES542 (1) The IBC requires a minimum live load - See 1607.11.2.

543 (2) This table is informational only in that actual site elevations may vary. Table is only  
*valid*

544 if site elevation is within 100 feet of the listed elevation."

545 (53) A new IBC, Section 1608.1.3, is added as follows: "1608.1.3 Thermal Factor. The  
 546 value for the thermal factor,  $C_t$ , used in calculation of  $p_f$  shall be determined from Table

*7.3 in*547 ASCE 7.

548 Exception: Except for unheated structures, the value of  $C_t$  need not exceed 1.0 when  
*ground*

549 snow load,  $P_s$  is calculated using Section 1608.1.2 as amended."

550 (54) IBC, Section 1608.2, is deleted and replaced with the following: "1608.2 Ground  
 551 Snow Loads. The ground snow loads to be used in determining the design snow loads for

*roofs*552 in states other than Utah are given in Figure 1608.2 for the contiguous United States and*Table*553 1608.2 for Alaska. Site-specific case studies shall be made in areas designated CS in*figure*554 1608.2. Ground snow loads for sites at elevations above the limits indicated in Figure*1608.2*

555

and for all sites within the CS areas shall be approved. Ground snow load determination for

556 such sites shall be based on an extreme value statistical analysis of data available in the  
*vicinity*

557 of the site using a value with a 2-percent annual probability of being exceeded (50-year*mean*

558 recurrence interval). Snow loads are zero for Hawaii, except in mountainous regions as  
 559 approved by the building official."

560 (55) In IBC, Section 1609.1.1, a new exception 7 is added as follows: "7. The wind  
 561 design procedure as found in Section 1616 through 1624 of the 1997 Uniform Building

*Code*562 may be used as an alternative wind design procedure for signs and free standing walls as*listed*

563 *in item 7 listed in Table 16-H of the 1997 Uniform Building Code. The Importance*  
*Factor, I,*  
564 *shall be determined in accordance with Table 6-1 of ASCE 7. Stress increases are only*  
*allowed*  
565 *as provided in Section 1605.3 of the 2009 IBC."*  
566 *(56) A new IBC, Section 1613.1.1, is added as follows: "1613.1.1 ASCE 12.7.2 and*  
567 *12.14.8.1 of Chapter 12 of ASCE 7 referenced in Section 1613.1, Definition of W, Item 4*  
*is*  
568 *deleted and replaced with the following:*  
569 *4. Where the flat roof snow load,  $P_f$ , exceeds 30 psf, the snow load included in seismic*  
*design*  
570 *shall be calculated, in accordance with the following formula:  $W_s = (0.20 + 0.025(A-5))$*   
 *$P_f$  is*  
571 *greater than or equal to  $0.20 P_f$ .*  
572 ***WHERE:***  
573  *$W_s$  = Weight of snow to be included in seismic calculations;*  
574  *$A$  = Elevation above sea level at the location of the structure (ft/1000);*  
575  *$P_f$  = Design roof snow load, psf.*  
576 *For the purposes of this section, snow load shall be assumed uniform on the roof footprint*  
577 *without including the effects of drift or sliding. The Importance Factor, I, used in*  
*calculating  $P_f$*   
578 *may be considered 1.0 for use in the formula for  $W_s$ ."*  
579 *(57) A new IBC, Section 1613.8, is added as follows: "1613.8 ASCE 7, Section*  
580 *13.5.6.2.2 paragraph (e) is modified to read as follows: (e) Penetrations shall have a*  
*sleeve or*  
581 *adapter through the ceiling tile to allow for free movement of at least 1 inch (25 mm) in*  
*all*  
582 *horizontal directions.*  
583 ***Exceptions:***  
584 *1. Where rigid braces are used to limit lateral deflections.*  
585 *2. At fire sprinkler heads in frangible surfaces per NFPA 13."*

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586  
587 *(58) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical*  
*concrete foundation design. Group R, Division 3 Occupancies three stories or less in*  
*height,*  
588 *and Group U Occupancies, which are constructed in accordance with Section 2308, or*  
*with*  
589 *other methods employing repetitive wood-frame construction or repetitive cold-formed*  
*steel*  
590 *structural member construction, shall be permitted to have concrete foundations*  
*constructed in*  
591 *accordance with Table 1807.1.6.4."*  
592 *(59) A new IBC, Table 1807.1.6.4 is added as follows:*  
593

***" TABLE 1807.1.6.4***

594

***EMPIRICAL FOUNDATION WALLS (1,7,8)***

<u>Lintel</u>	<u>Max. Height</u>	<u>Top Edge</u>	<u>Min. Vertical</u>	<u>Horizontal</u>	<u>Steel at</u>	<u>Max. Lintel</u>	<u>Min.</u>
	<u>Support</u>	<u>Thickness</u>	<u>Steel (2)</u>	<u>Steel (3)</u>	<u>Openings (4)</u>	<u>Length</u>	<u>Length</u>
595	2'(610 mm)	None	6" (5)	2#4 Bars	2- #4 Bars above	2'(610 mm)	2"for each
596			1- #4 Bar each side		foot of		
597			1- #4 Bar below		opening		
598					width;		
599					min. 6"		
600	3'(914 mm)	None	6" #4@32"	3-#4 Bars	2- #4 Bars above	2'(610 mm)	2"for
601			1- #4 Bar each side		foot of		
602			1- #4 Bar below		opening		
603					width;		
604					min. 6"		
605	4'(1219 mm)	None	6" #4@32"	4-#4 Bars	2- #4 Bars above	3'(914 mm)	2"for
606			1- #4 Bar each side		foot of		
607			1- #4 Bar below		opening		
608					width;		
609					min. 6"		
610	6'(1829 mm)	Floor or roof	8" #4@24"	5-#4 Bars	2- #4 Bars above	2"for	
611			Diaphragm		1- #4 Bar each side		foot of
612			(6)		1- #4 Bar below		opening
613					width;		
614					min. 6"		
615	8'(2438 mm)	Floor or roof	8" #4@24"	6-#4 Bars	2- #4 Bars above	6'(1829	2"for each
616			Diaphragm		1- #4 Bar each side		foot of
617			(6)		1- #4 Bar below		opening
618					width;		
619					min. 6"		
620	9'(2743 mm)	Floor or roof	8" #4@16"	7-#4 Bars	2- #4 Bars above	6'(1829	2"for each
621			Diaphragm		1- #4 Bar each side		foot of
622			(6)		1- #4 Bar below		opening
623					width;		
624					min. 6"		
625					Over 9'		Engineering required for each column
626					(2743 mm)		
627					Footnotes:		
628					(1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.		
629					(2) To be placed in the center of the wall, and extended from the footing to within three		
630					inches		
631					(76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement shall		
632					be		
633					provided in the footing, extending 24 inches (610 mm) into the foundation wall.		
634					(3) One bar shall be located in the top four inches (102 mm), one bar in the bottom four		

inches

635 (102 mm) and the other bars equally spaced between. Such bar placement satisfies the  
636 requirements of Section 1805.9. Corner reinforcing shall be provided so as to lap 24

inches

637 (610 mm).

638 (4) Bars shall be placed within two inches (51 mm) of the openings and extend 24 inches

(610

639 mm) beyond the edge of the opening; vertical bars may terminate three inches (76 mm)

from

640 the top of the concrete.

641 (5) Dowels of #4 bar at 32 inches on center shall be provided in the footing, extending 18  
642 inches (457 mm) into the foundation wall.

643 (6) Diaphragm shall conform to the requirements of Section 2308.

644 (7) Footing shall be a minimum of nine inches thick by 20 inches wide.

645 (8) Soil backfill shall be soil classification types GW, GP, SW, or SP, per Table 1610.1.

Soil

646 shall not be submerged or saturated in groundwater."

647 (60) A new IBC, Section 2306.1.5, is added as follows: "2306.1.5 Load duration  
648 factors. The allowable stress increase of 1.15 for snow load, shown in Table 2.3.2,

Frequently

649 Used Load Duration Factors,  $C_d$ , of the National Design Specifications, shall not be

utilized at

650 elevations above 5,000 feet (1524 M)."

651 (61) In IBC, Section 2308.6, a new exception is added as follows: "Exception: Where  
652 foundation plates or sills are bolted or anchored to the foundation with not less than 1/2

inch

653 (12.7 mm) diameter steel bolts or approved anchors, embedded at least 7 inches (178

mm) into

654 concrete or masonry and spaced not more than 32 inches (816 mm) apart, there shall be

a

655 minimum of two bolts or anchor straps per piece located not less than 4 inches (102 mm)

from

656 each end of each piece. A properly sized nut and washer shall be tightened on each bolt to

the

657

plate."

658 (62) IBC, Section 2506.2.1, is deleted and replaced with the following: "2506.2.1

659 Other materials. Metal suspension systems for acoustical and lay-in panel ceilings shall  
660 conform with ASTM C635 listed in Chapter 35 and Section 13.5.6 of ASCE 7-05, as

amended

661 in Section 1613.8, for installation in high seismic areas."

662 (63) In IBC, Section 2902.1, the title for Table 2902.1 is deleted and replaced and a  
663 new footnote g is added as follows:

664 (a) "Table 2902.1, Minimum Number of Required Plumbing Facilitiesa, g"; and

665 (b) "FOOTNOTE: g. When provided, in public toilet facilities there shall be an equal  
666 number of diaper changing facilities in male toilet rooms and female toilet rooms."

667 (64) In IBC, Section 3006.5, a new exception is added as follows: "Exception:

668 Hydraulic elevators and roped hydraulic elevators with a rise of 50 feet or less."

669 (65) A new section IBC, Section 3401.6, is added as follows: "3401.6 Parapet bracing,

670 wall anchors, and other appendages. Buildings constructed prior to 1975 shall have  
parapet  
671 bracing, wall anchors, and appendages such as cornices, spires, towers, tanks, signs,  
statuary,  
672 etc. evaluated by a licensed engineer when said building is undergoing reroofing, or  
alteration  
673 of or repair to said feature. Such parapet bracing, wall anchors, and appendages shall be  
674 evaluated in accordance with 75% of the seismic forces as specified in Section 1613.  
When  
675 allowed by the local building official, alternate methods of equivalent strength as  
referenced in  
676 an approved code under Utah Code, Subsection 58-56-4(6)(a), will be considered when  
677 accompanied by engineer-sealed drawings, details, and calculations. When found to be  
678 deficient because of design or deteriorated condition, the engineer's recommendations to  
679 anchor, brace, reinforce, or remove the deficient feature shall be implemented.  
680 EXCEPTIONS:  
681 1. Group R-3 and U occupancies.  
682 2. Unreinforced masonry parapets need not be braced according to the above stated  
provisions  
683 provided that the maximum height of an unreinforced masonry parapet above the level of  
the  
684 diaphragm tension anchors or above the parapet braces shall not exceed one and one-  
half times  
685 the thickness of the parapet wall. The parapet height may be a maximum of two and one-  
half  
686 times its thickness in other than Seismic Design Categories D, E, or F."  
687 (66) IBC, Section 3408.4, is deleted and replaced with the following: "3408.4 Change

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688  
in Occupancy. When a change in occupancy results in a structure being reclassified to a higher  
689 Occupancy Category (as defined in Table 1604.5), or when such change of occupancy  
results in  
690 a design occupant load increase of 100% or more, the structure shall conform to the  
seismic  
691 requirements for a new structure.  
692 Exceptions:  
693 1. Specific seismic detailing requirements of this code or ASCE 7 for a new structure shall  
not  
694 be required to be met where it can be shown that the level of performance and seismic  
safety is  
695 equivalent to that of a new structure. Such analysis shall consider the regularity,  
overstrength,  
696 redundancy, and ductility of the structure within the context of the existing and retrofit (if  
any)  
697 detailing providing. Alternatively, the building official may allow the structure to be  
upgraded  
698 in accordance with referenced sections as found in an approved code under Utah Code,  
699 Subsection 58-56-4(6)(a).  
700 2. When a change of use results in a structure being reclassified from Occupancy  
Category I or

701 II to Occupancy Category III and the structure is located in a seismic map area where S<sub>ds</sub>  
is less  
702 than 0.33, compliance with the seismic requirements of this code and ASCE 7 are not  
required.  
703 3. Where design occupant load increase is less than 25 occupants and the Occupancy  
Category  
704 does not change."  
705 (67) In IBC, Section 3411.1, the exception is deleted and replaced with the following:  
706 "Exception: Type B dwelling or sleeping units required by section 1107 of this code are  
not  
707 required to be provided in existing buildings and facilities unless being altered or  
undergoing a  
708 change of occupancy classification."  
709 (68) The following referenced standard is added under NFPA in IBC, Chapter 35:  
710 "Referenced in code  
711 Number Title Section number  
712 720-09 Standard for the Installation of 907.9  
713 Carbon Monoxide (CO) Detection and  
714 Warning Equipment"  
715 (69) The following referenced standard is added under UL in IBC, Chapter 35:  
716 "Referenced in code  
717 Number Title Section number  
718 2034-2008 Standard of Single- and 907.9

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719  
Multiple-station Carbon Monoxide Alarms"  
720 **Section 202. Statewide Amendments to the IRC.**  
721 The following are adopted as amendments to the IRC to be applicable statewide:  
722 (1) The statewide amendments to the following which may be applied to detached one  
723 and two family dwellings and multiple single family dwellings shall be applicable to the  
724 corresponding provisions of the IRC:  
725 (a) IBC under State Construction Code, Section 201;  
726 (b) IPC under State Construction Code, Section 203;  
727 (c) IMC under State Construction Code, Section 204;  
728 (d) IFGC under State Construction Code, Section 205;  
729 (e) NEC under State Construction Code, Section 206; and  
730 (f) IECC under State Construction Code, Section 207.  
731 (2) In IRC, Section 109:  
732 (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant  
733 exterior wall envelope inspections. An inspection shall be made of the weather-resistant  
734 exterior wall envelope as required by Section R703.1 and flashings as required by Section  
735 R703.8 to prevent water from entering the weather-resistive barrier."  
736 (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections;  
737 R109.1.6.1 Fire-and smoke-resistance-rated construction inspection; R109.1.6.2  
Reinforced  
738 masonry, insulating concrete form (ICF) and conventionally formed concrete wall  
inspection;  
739 and R109.1.7 Final inspection.  
740 (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to  
741 owner. Upon notice from the building official that work on any building or structured is

*being*  
 742 *prosecuted contrary to the provisions of this code or other pertinent laws or ordinances*  
*or in an*  
 743 *unsafe and dangerous manner, such work shall be immediately stopped. The stop work*  
*order*  
 744 *shall be in writing and shall be given to the owner of the property involved, or to the*  
*owner's*  
 745 *agent or to the person doing the work; and shall state the conditions under which work*  
*will be*  
 746 *permitted to resume."*  
 747 *(4) In IRC, Section R202, the following definition is added: "CERTIFIED*  
 748 *BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence*  
*to*  
 749 *test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction*

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750  
*under Utah Code, Subsection 19-4-104(4)."*  
 751 *(5) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced*  
 752 *with the following: "CROSS CONNECTION. Any physical connection or potential*  
*connection*  
 753 *or arrangement between two otherwise separate piping systems, one of which contains*  
*potable*  
 754 *water and the other either water of unknown or questionable safety or steam, gas, or*  
*chemical,*  
 755 *whereby there exists the possibility for flow from one system to the other, with the*  
*direction of*  
 756 *flow depending on the pressure differential between the two systems (see "Backflow,*  
*Water*  
 757 *Distribution")."*  
 758 *(6) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced*  
 759 *with the following: "POTABLE WATER. Water free from impurities present in amounts*  
 760 *sufficient to cause disease or harmful physiological effects and conforming to the Utah*  
*Code,*  
 761 *Title 19, Chapters 4 and 5, and the regulations of the public health authority having*  
 762 *jurisdiction."*  
 763 *(7) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table*  
 764 *R301.2(5b) as follows:*  
 765

"TABLE NO. R301.2(5a)

766

STATE OF UTAH - REGIONAL SNOW LOAD FACTORS

COUNTY	$P_o$	$S$	$A_o$
Beaver	43	63	6.2
Box Elder	43	63	5.2
Cache	50	63	4.5
Carbon	43	63	5.2
Daggett	43	63	6.5
Davis	43	63	4.5

774	<u>Duchesne</u>	43	63	6.5
775	<u>Emery</u>	43	63	6.0
776	<u>Garfield</u>	43	63	6.0
777	<u>Grand</u>	36	63	6.5
778	<u>Iron</u>	43	63	5.8
779	<u>Juab</u>	43	63	5.2
780	<u>Kane</u>	36	63	5.7

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781	<u>Millard</u>	43	63	5.3
782	<u>Morgan</u>	57	63	4.5
783	<u>Piute</u>	43	63	6.2
784	<u>Rich</u>	57	63	4.1
785	<u>Salt Lake</u>	43	63	4.5
786	<u>San Juan</u>	43	63	6.5
787	<u>Sanpete</u>	43	63	5.2
788	<u>Sevier</u>	43	63	6.0
789	<u>Summit</u>	86	63	5.0
790	<u>Tooele</u>	43	63	4.5
791	<u>Uintah</u>	43	63	7.0
792	<u>Utah</u>	43	63	4.5
793	<u>Wasatch</u>	86	63	5.0
794	<u>Washington</u>	29	63	6.0
795	<u>Wayne</u>	36	63	6.5
796	<u>Weber</u>	43	63	4.5
797				

TABLE NO. R301.2(5b)

798

RECOMMENDED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS(2)

799		<u>Roof Snow</u>	<u>Ground Snow</u>
800		<u>Load (PSF)</u>	<u>Load (PSF)</u>
801	<u>Beaver County</u>		
802	<u>Beaver</u>	5920 ft. 43	62
803	<u>Box Elder County</u>		
804	<u>Brigham City</u>	4300 ft. 30	43
805	<u>Tremonton</u>	4290 ft. 30	43
806	<u>Cache County</u>		
807	<u>Logan</u>	4530 ft. 35	50
808	<u>Smithfield</u>	4595 ft. 35	50
809	<u>Carbon County</u>		
810	<u>Price</u>	5550 ft. 30	43
811	<u>Daggett County</u>		

812

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<u>Manila</u>	5377 ft. 30	43
813	<u>Davis County</u>	
814	<u>Bountiful</u>	4300 ft. 30 43
815	<u>Farmington</u>	4270 ft. 30 43

816	<u>Layton</u>	<u>4400 ft.</u>	<u>30</u>	<u>43</u>
817	<u>Fruit Heights</u>	<u>4500 ft.</u>	<u>40</u>	<u>57</u>
818	<u>Duchesne County</u>			
819	<u>Duchesne</u>	<u>5510 ft.</u>	<u>30</u>	<u>43</u>
820	<u>Roosevelt</u>	<u>5104 ft.</u>	<u>30</u>	<u>43</u>
821	<u>Emery County</u>			
822	<u>Castledale</u>	<u>5660 ft.</u>	<u>30</u>	<u>43</u>
823	<u>Green River</u>	<u>4070 ft.</u>	<u>25</u>	<u>36</u>
824	<u>Garfield County</u>			
825	<u>Panguitch</u>	<u>6600 ft.</u>	<u>30</u>	<u>43</u>
826	<u>Grand County</u>			
827	<u>Moab</u>	<u>3965 ft.</u>	<u>25</u>	<u>36</u>
828	<u>Iron County</u>			
829	<u>Cedar City</u>	<u>5831 ft.</u>	<u>30</u>	<u>43</u>
830	<u>Juab County</u>			
831	<u>Nephi</u>	<u>5130 ft.</u>	<u>30</u>	<u>43</u>
832	<u>Kane County</u>			
833	<u>Kanab</u>	<u>5000 ft.</u>	<u>25</u>	<u>36</u>
834	<u>Millard County</u>			
835	<b>H. [ <del>Millard</del> ] Fillmore .H</b>	<u>5000 ft.</u>	<u>30</u>	<u>43</u>
836	<u>Delta</u>	<u>4623 ft.</u>	<u>30</u>	<u>43</u>
837	<u>Morgan County</u>			
838	<u>Morgan</u>	<u>5064 ft.</u>	<u>40</u>	<u>57</u>
839	<u>Piute County</u>			
840	<u>Piute</u>	<u>5996 ft.</u>	<u>30</u>	<u>43</u>
841	<u>Rich County</u>			
842	<u>Woodruff</u>	<u>6315 ft.</u>	<u>40</u>	<u>57</u>

843

Salt Lake County

844	<u>Murray</u>	<u>4325 ft.</u>	<u>30</u>	<u>43</u>
845	<u>Salt Lake City</u>	<u>4300 ft.</u>	<u>30</u>	<u>43</u>
846	<u>Sandy</u>	<u>4500 ft.</u>	<u>30</u>	<u>43</u>
847	<u>West Jordan</u>	<u>4375 ft.</u>	<u>30</u>	<u>43</u>
848	<u>West Valley</u>	<u>4250 ft.</u>	<u>30</u>	<u>43</u>
849	<u>San Juan County</u>			
850	<u>Blanding</u>	<u>6200 ft.</u>	<u>30</u>	<u>43</u>
851	<u>Monticello</u>	<u>6820 ft.</u>	<u>35</u>	<u>50</u>
852	<u>Sanpete County</u>			
853	<u>Fairview</u>	<u>6750 ft.</u>	<u>35</u>	<u>50</u>
854	<u>Mt. Pleasant</u>	<u>5900 ft.</u>	<u>30</u>	<u>43</u>
855	<u>Manti</u>	<u>5740 ft.</u>	<u>30</u>	<u>43</u>
856	<u>Ephraim</u>	<u>5540 ft.</u>	<u>30</u>	<u>43</u>
857	<u>Gunnison</u>	<u>5145 ft.</u>	<u>30</u>	<u>43</u>
858	<u>Sevier County</u>			
859	<u>Salina</u>	<u>5130 ft.</u>	<u>30</u>	<u>43</u>
860	<u>Richfield</u>	<u>5270 ft.</u>	<u>30</u>	<u>43</u>
861	<u>Summit County</u>			
862	<u>Coalville</u>	<u>5600 ft.</u>	<u>60</u>	<u>86</u>
863	<u>Kamas</u>	<u>6500 ft.</u>	<u>70</u>	<u>100</u>

864	<u>Park City</u>	<u>6800 ft.</u>	<u>100</u>	<u>142</u>
865	<u>Park City</u>	<u>8400 ft.</u>	<u>162</u>	<u>231</u>
866	<u>Summit Park</u>	<u>7200 ft.</u>	<u>90</u>	<u>128</u>
867	<u>Tooele County</u>			
868	<u>Tooele</u>	<u>5100 ft.</u>	<u>30</u>	<u>43</u>
869	<u>Uintah County</u>			
870	<u>Vernal</u>	<u>5280 ft.</u>	<u>30</u>	<u>43</u>
871	<u>Utah County</u>			
872	<u>American Fork</u>	<u>4500 ft.</u>	<u>30</u>	<u>43</u>
873	<u>Orem</u>	<u>4650 ft.</u>	<u>30</u>	<u>43</u>

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874	<u>Pleasant Grove</u>	<u>5000 ft.</u>	<u>30</u>	<u>43</u>
875	<u>Provo</u>	<u>5000 ft.</u>	<u>30</u>	<u>43</u>
876	<u>Spanish Fork</u>	<u>4720 ft.</u>	<u>30</u>	<u>43</u>
877	<u>Wasatch County</u>			
878	<u>Heber</u>	<u>5630 ft.</u>	<u>60</u>	<u>86</u>
879	<u>Washington County</u>			
880	<u>Central</u>	<u>5209 ft.</u>	<u>25</u>	<u>36</u>
881	<u>Dameron</u>	<u>4550 ft.</u>	<u>25</u>	<u>36</u>
882	<u>Leeds</u>	<u>3460 ft.</u>	<u>20</u>	<u>29</u>
883	<u>Rockville</u>	<u>3700 ft.</u>	<u>25</u>	<u>36</u>
884	<u>Santa Clara</u>	<u>2850 ft.</u>	<u>15 (1)</u>	<u>21</u>
885	<u>St. George</u>	<u>2750 ft.</u>	<u>15 (1)</u>	<u>21</u>
886	<u>Wayne County</u>			
887	<u>Loa</u>	<u>7080 ft.</u>	<u>30</u>	<u>43</u>
888	<u>Hanksville</u>	<u>4308 ft.</u>	<u>25</u>	<u>36</u>
889	<u>Weber County</u>			
890	<u>North Ogden</u>	<u>4500 ft.</u>	<u>40</u>	<u>57</u>
891	<u>Ogden</u>	<u>4350 ft.</u>	<u>30</u>	<u>43</u>

892 NOTES893 (1) The IRC requires a minimum live load - See R301.6.894 (2) This table is informational only in that actual site elevations may vary. Table is onlyvalid895 if site elevation is within 100 feet of the listed elevation."896 (8) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah897 Snow Loads. The ground snow load,  $P_g$ , to be used in the determination of design snowloads898 for buildings and other structures shall be determined by using the following formula:  $P_g$ =  $(P_o/2$ 899 +  $S^2(A-A_o)^2/0.5$  for A greater than  $A_o$ , and  $P_g = P_o$  for A less than or equal to  $A_o$ .900 WHERE:901  $P_g$  = Ground snow load at a given elevation (psf);902  $P_o$  = Base ground snow load (psf) from Table No. R301.2(5a);903  $S$  = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a);904  $A$  = Elevation above sea level at the site (ft./1000);

905

 $A_o$  = Base ground snow elevation from Table R301.2(5a) (ft./1000).906 The building official may round the roof snow load to the nearest 5 psf. The ground snow

*load,*  
 907 *P<sub>g</sub>, may be adjusted by the building official when a licensed engineer or architect submits*  
*data*  
 908 *substantiating the adjustments. A record of such action together with the substantiating*  
*data*  
 909 *shall be provided to the division for a permanent record.*  
 910 *The building official may also directly adopt roof snow loads in accordance with Table*  
 911 *R301.2(5b), provided the site is no more than 100 ft. higher than the listed elevation.*  
 912 *Where the minimum roof live load in accordance with Table R301.6 is greater than the*  
*design*  
 913 *roof snow load, such roof live load shall be used for design, however, it shall not be*  
*reduced to*  
 914 *a load lower than the design roof snow load. Drifting need not be considered for roof*  
*snow*  
 915 *loads less than 20 psf."*  
 916 *(9) In IRC, Section R302.2, the words "Exception: A" are deleted and replaced with the*  
 917 *following: "Exceptions: 1. A common 2-hour fire-resistance-rated wall is permitted for*  
 918 *townhouses if such walls do not contain plumbing or mechanical equipment, ducts or*  
*vents in*  
 919 *the cavity of the common wall. Electrical installation shall be installed in accordance*  
*with*  
 920 *Chapters 34 through 43. Penetrations of electrical outlet boxes shall be in accordance*  
*with*  
 921 *Section R302.4.*  
 922 *2. In buildings equipped with an automatic residential fire sprinkler system, a"*  
 923 *(10) In IRC, Section R302.2.4, a new exception 6 is added as follows: "6. Townhouses*  
 924 *separated by a common 2-hour fire-resistance-rated wall as provided in Section R302.2."*  
 925 *(11) IRC, Sections R311.7.4 through R311.7.4.3, are deleted and replaced with the*  
 926 *following: "R311.7.4 Stair treads and risers. R311.7.4.1 Riser height. The maximum riser*  
 927 *height shall be 8 inches (203 mm). The riser shall be measured vertically between leading*  
 928 *edges of the adjacent treads. The greatest riser height within any flight of stairs shall not*  
*exceed*  
 929 *the smallest by more than 3/8 inch (9.5 mm).*  
 930 *R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread*  
 931 *depth shall be measured horizontally between the vertical planes of the foremost*  
*projection of*  
 932 *adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth*  
*within*  
 933 *any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder*  
*treads*  
 934 *shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point 12*  
 935 *inches (305 mm) from the side where the treads are narrower. Winder treads shall have a*  


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 936  
*minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the*  
 937 *greatest winder tread depth at the 12 inch (305 mm) walk line shall not exceed the*  
*smallest by*  
 938 *more than 3/8 inch (9.5 mm).*  
 939 *R311.7.4.3 Profile. The radius of curvature at the leading edge of the tread shall be no*  
*greater*

940 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1  
1/4  
 941 inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing  
projection  
 942 shall not exceed the smallest nosing projection by more than 3/8 inches (9.5 mm) between  
two  
 943 stories, including the nosing at the level of floors and landings. Beveling of nosing shall  
not  
 944 exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the  
leading  
 945 edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical.  
Open  
 946 risers are permitted, provided that the opening between treads does not permit the  
passage of a  
 947 4-inch diameter (102 mm) sphere.  
 948 Exceptions.  
 949 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).  
 950 2. The opening between adjacent treads is not limited on stairs with a total rise of 30  
inches  
 951 (762 mm) or less."  
 952 (12) In Section R312.2, the words "adjacent fixed seating" are deleted.  
 953 (13) IRC, Section R313, is deleted.  
 954 (14) IRC, Section R315.1, is deleted and replaced with the following: "R315.1 Carbon  
 955 monoxide alarms. For new construction, a listed carbon monoxide alarm shall be  
installed on  
 956 each habitable level of dwelling units within which fuel-fired appliances are installed and  
in  
 957 dwelling units that have attached garages."  
 958 (15) IRC, Section R315.3, is deleted and replaced with the following: "R315.3 Alarm  
 959 requirements. Listed single- and multiple-station carbon monoxide alarms shall comply  
with  
 960 U.L. 2034 and shall be installed in accordance with the provision of this code and NFPA  
720."  
 961 (16) In IRC, Section R403.1.6, a new Exception 4 is added as follows: "4. When  
 962 anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be  
placed  
 963 with a minimum of two bolts per plate section located not less than 4 inches (102 mm)  
from  
 964 each end of each plate section at interior bearing walls, interior braced wall lines and at  
all  
 965 exterior walls."  
 966 (17) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and  


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 967  
Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816 mm)  
 968 apart, anchor bolts may be placed with a minimum of two bolts per plate section located  
not  
 969 less than 4 inches (102 mm) from each end of each plate section at interior bearing walls,  
 970 interior braced wall lines and at all exterior walls."  
 971 (18) In IRC, Section R404.1, a new exception is added as follows: "Exception: As an

- 972 alternative to complying with Sections R404.1 through R404.1.5.3, concrete and masonry  
 973 foundation walls may be designed in accordance with IBC Sections 1807.1.5 and  
1807.1.6 as  
 974 amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."  
 975 (19) IRC, Sections R612.2 through R612.4.2, are deleted.  
 976 (20) IRC, Chapter 11, is deleted and replaced with Chapter 11 of the 2006  
International  
 977 Residential Code and Chapter 4 of the 2006 International Energy Conservation Code.  
 978 (21) IRC, Section M1411.6, is deleted.  
 979 (22) In IRC, Section M1502.4.4.1, the words "25 feet (7620 mm)" are deleted and  
 980 replaced with "35 feet (10668 mm)".  
 981 (23) A new IRC, Section G2401.2, is added as follows: "G2401.2 Meter Protection.  
 982 Fuel gas services shall be in an approved location and/or provided with structures  
designed to  
 983 protect the fuel gas meter and surrounding piping from physical damage, including  
falling,  
 984 moving, or migrating ice and snow. If an added structure is used, it must provide access  
for  
 985 service and comply with the IBC or the IRC."  
 986 (24) A new IRC, Section P2602.3, is added as follows: "P2602.3 Individual water  
 987 supply. Where a potable public water supply is not available, individual sources of  
potable  
 988 water supply shall be utilized provided that the source has been developed in accordance  
with  
 989 Utah Code, Sections 73-3-1 and 73-3-25, as administered by the Department of Natural  
 990 Resources, Division of Water Rights. In addition, the quality of the water shall be  
approved by  
 991 the local health department having jurisdiction."  
 992 (25) A new IRC, Section P2602.4, is added as follows: "P2602.4 Sewer required.  
 993 Every building in which plumbing fixtures are installed and all premises having drainage  
 994 piping shall be connected to a public sewer where the sewer is within 300 feet of the  
property  
 995 line in accordance with Utah Code, Section 10-8-38; or an approved private sewage  
disposal  
 996 system in accordance with Utah Administrative Code, Chapter 4, Rule R317, as  
administered  
 997 by the Department of Environmental Quality, Division of Water Quality."
- 
- 998  
 (26) In IRC, Section P2801.7, the word "townhouses" is deleted.  
 999 (27) A new IRC, Section P2902.1.1, is added as follows: "P2902.1.1 Backflow  
 1000 assembly testing. The premise owner or his designee shall have backflow prevention  
 1001 assemblies operation tested at the time of installation, repair, and relocation and at least  
on an  
 1002 annual basis thereafter, or more frequently as required by the authority having  
jurisdiction.  
 1003 Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The  
assemblies  
 1004 that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure  
Vacuum

1005 Breaker Assembly, the Double Check Backflow Prevention Assembly, the Double Check  
 1006 Detector Assembly Backflow Preventer, the Reduced Pressure Principle Backflow  
Preventer,  
 1007 and Reduced Pressure Detector Assembly."  
 1008 (28) IRC, Table P2902.3 is deleted and replaced with the following:  
 1009

"TABLE P2902.3

1010

General Methods of Protection

1011	<u>Assembly</u>	<u>Degree</u>	<u>Application</u>	<u>Installation Criteria</u>
1012	<u>(applicable</u>	<u>of</u>		
1013	<u>standard)</u>	<u>Hazard</u>		
1014	<u>Reduced</u>	<u>High or</u>	<u>Backpressure or</u>	<u>a. The bottom of each</u>
1015	<u>Pressure</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>RP assembly shall</u>
1016	<u>Principle Backflow</u>		<u>1/2" - 16"</u>	<u>be a minimum of 12</u>
1017	<u>Preventer (AWWA</u>			<u>inches above the</u>
1018	<u>C511, USC-FCCCHR,</u>			<u>ground or floor.</u>
1019	<u>ASSE 1013</u>			<u>b. RP assemblies shall</u>
1020	<u>CSA CNA/CSA-B64.4)</u>			<u>NOT be installed in</u>
1021	<u>and Reduced Pressure</u>			<u>a pit.</u>
1022	<u>Detector Assembly</u>			<u>c. The relief valve on</u>
1023	<u>(ASSE 1047, USC-</u>			<u>each RP assembly</u>
1024	<u>FCCCHR)</u>			<u>shall not be</u>
1025				<u>directly connected</u>
1026				<u>to any waste</u>
1027				<u>disposal line,</u>
1028				<u>including sanitary</u>

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1029

sewer, storm drains,

1030				<u>or vents.</u>
1031				<u>d. The assembly shall</u>
1032				<u>be installed in a</u>
1033				<u>horizontal position</u>
1034				<u>only unless listed</u>
1035				<u>or approved for</u>
1036				<u>vertical installation.</u>
1037	<u>Double Check</u>	<u>Low</u>	<u>Backpressure or</u>	<u>a. If installed in a</u>
1038	<u>Backflow</u>		<u>Backsiphonage</u>	<u>pit, the DC assembly</u>
1039	<u>Prevention</u>		<u>1/2" - 16"</u>	<u>shall be installed</u>
1040	<u>Assembly</u>			<u>with a minimum of</u>
1041	<u>(AWWA C510,</u>			<u>12 inches of</u>
1042	<u>USC-FCCCHR,</u>			<u>clearance between</u>
1043	<u>ASSE 1015)</u>			<u>all sides of the</u>
1044	<u>Double Check</u>			<u>vault including</u>
1045	<u>Detector Assembly</u>			<u>the floor and roof</u>
1046	<u>Backflow Preventer</u>			<u>or ceiling with</u>
1047	<u>(ASSE 1048,</u>			<u>adequate room for</u>

1048 USC-FCCCHR) testing and  
 1049 maintenance.  
 1050 b. Shall be installed  
 1051 in a horizontal  
 1052 position unless  
 1053 listed or approved  
 1054 for vertical  
 1055 installation.  
 1056 Pressure High or Backsiphonage a. Shall not be  
 1057 Vacuum Low 1/2" - 2" installed in an  
 1058 Breaker area that could be  
 1059 Assembly subjected to

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1060  
 (ASSE 1020, backpressure or  
 1061 USC-FCCCHR) back drainage  
 1062 conditions.  
 1063 b. Shall be installed  
 1064 a minimum of 12  
 1065 inches above all  
 1066 downstream piping  
 1067 and the highest  
 1068 point of use.  
 1069 c. Shall not be  
 1070 installed below  
 1071 ground or in a  
 1072 vault or pit.  
 1073 d. Shall be installed  
 1074 in a vertical position  
 1075 only.  
 1076 Spill High or Backsiphonage a. Shall not be  
 1077 Resistant Low 1/4" - 2" installed in an  
 1078 Vacuum area that could  
 1079 Breaker be subjected to  
 1080 (ASSE 1056, backpressure or  
 1081 USC-FCCCHR) back drainage  
 1082 conditions.  
 1083 b. Shall be installed  
 1084 a minimum of 12  
 1085 inches above all  
 1086 downstream piping  
 1087 and the highest  
 1088 point of use.  
 1089 c. Shall not be  
 1090 installed below

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1091  
ground or in a  
 1092 vault or pit.  
 1093 d. Shall be installed

1094 \_\_\_\_\_ in a vertical position  
 1095 \_\_\_\_\_ only.  
 1096 General \_\_\_\_\_ The assembly owner,  
 1097 Installation \_\_\_\_\_ when necessary,  
 1098 Criteria \_\_\_\_\_ shall provide devices  
 1099 \_\_\_\_\_ or structures to  
 1100 \_\_\_\_\_ facilitate testing, \_\_\_\_\_  
 1101 \_\_\_\_\_ repair, and/or \_\_\_\_\_  
 1102 \_\_\_\_\_ maintenance and \_\_\_\_\_  
 1103 \_\_\_\_\_ to ensure the safety of \_\_\_\_\_  
 1104 \_\_\_\_\_ the backflow \_\_\_\_\_  
 1105 \_\_\_\_\_ technician. \_\_\_\_\_  
 1106 \_\_\_\_\_ Assemblies shall not \_\_\_\_\_  
 1107 \_\_\_\_\_ be installed more than \_\_\_\_\_  
 1108 \_\_\_\_\_ five feet off the floor \_\_\_\_\_  
 1109 \_\_\_\_\_ unless a permanent \_\_\_\_\_  
 1110 \_\_\_\_\_ platform is installed. \_\_\_\_\_  
 1111 \_\_\_\_\_ The body of the \_\_\_\_\_  
 1112 \_\_\_\_\_ assembly shall not be \_\_\_\_\_  
 1113 \_\_\_\_\_ closer than 12 inches \_\_\_\_\_  
 1114 \_\_\_\_\_ to any wall, ceiling or \_\_\_\_\_  
 1115 \_\_\_\_\_ encumbrance, and \_\_\_\_\_  
 1116 \_\_\_\_\_ shall be accessible for \_\_\_\_\_  
 1117 \_\_\_\_\_ testing, repair and/or \_\_\_\_\_  
 1118 \_\_\_\_\_ maintenance. \_\_\_\_\_  
 1119 \_\_\_\_\_ In cold climates, \_\_\_\_\_  
 1120 \_\_\_\_\_ assemblies shall be \_\_\_\_\_  
 1121 \_\_\_\_\_ protected from \_\_\_\_\_

---

1122

\_\_\_\_\_ freezing by a means

1123 \_\_\_\_\_ acceptable to the code

1124 \_\_\_\_\_ official.

1125 \_\_\_\_\_ Assemblies shall be

1126 \_\_\_\_\_ maintained as an intact

1127 \_\_\_\_\_ assembly."

1128 \_\_\_\_\_ (29) IRC, Table 2902.3a, is added as follows:

1129

\_\_\_\_\_ "TABLE 2902.3a

1130

\_\_\_\_\_ Specialty Backflow Devices for low hazard use only

1131 Device \_\_\_\_\_ Degree of \_\_\_\_\_ Application \_\_\_\_\_ Applicable

1132 \_\_\_\_\_ Hazard \_\_\_\_\_ Standard

1133 Air Gap \_\_\_\_\_ High or \_\_\_\_\_ Backsiphonage \_\_\_\_\_ See Table P2902.3.1

1134 \_\_\_\_\_ Low \_\_\_\_\_ ASME A112.1.2

1135 Antisiphon-type \_\_\_\_\_ Low \_\_\_\_\_ Backsiphonage \_\_\_\_\_ ASSE 1002

1136 Water Closet Flush \_\_\_\_\_ CSA CAN/

1137 Tank Ball Cock \_\_\_\_\_ CSA-B125

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1138	<u>Atmospheric</u>	<u>High or</u>	<u>Backsiphonage</u>	<u>ASSE 1001</u>
1139	<u>Vacuum</u>	<u>Low</u>	<u>a. Shall not be</u>	<u>USC-FCCCHR,</u>
1140	<u>Breaker</u>	<u>installed in an</u>	<u>CSA</u>	
1141		<u>area that could be</u>	<u>CAN/CSA-B64.1.1</u>	
1142		<u>subjected to</u>		
1143		<u>backpressure or back</u>		
1144		<u>drainage conditions.</u>		
1145		<u>b. Shall not be installed</u>		
1146		<u>where it may be subjected</u>		
1147		<u>to continuous pressure</u>		
1148		<u>for more than 12 consecutive</u>		
1149		<u>hours at any time.</u>		
1150		<u>c. Shall be installed a</u>		
1151		<u>minimum of six inches above</u>		
1152		<u>all downstream piping and</u>		

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1153		<u>the highest point of use.</u>		
1154		<u>d. Shall be installed on the</u>		
1155		<u>discharge (downstream) side</u>		
1156		<u>of any valves.</u>		
1157		<u>e. The AVB shall be installed</u>		
1158		<u>in a vertical position only.</u>		
1159	<u>Dual check valve</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1024</u>
1160	<u>Backflow Preventer</u>		<u>or Backpressure</u>	
1161		<u>1/4" - 1"</u>		
1162	<u>Backflow Preventer</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1012</u>
1163	<u>with Intermediate</u>	<u>Residential</u>	<u>or Backpressure</u>	<u>CSA CAN/</u>
1164	<u>Atmospheric Vent</u>	<u>Boiler</u>	<u>1/4" - 3/4"</u>	<u>CSA-B64.3</u>
1165	<u>Dual check valve</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1022</u>
1166	<u>type Backflow</u>		<u>or Backpressure</u>	
1167	<u>Preventer for</u>		<u>1/4" - 3/8"</u>	
1168	<u>Carbonated Beverage</u>			
1169	<u>Dispensers/Post</u>			
1170	<u>Mix Type</u>			
1171	<u>Hose-connection</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1011</u>
1172	<u>Vacuum Breaker</u>		<u>1/2", 3/4", 1"</u>	<u>CSA CAN/</u>
1173			<u>CSA-B64.2</u>	
1174	<u>Vacuum Breaker</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1019</u>
1175	<u>Wall Hydrants,</u>		<u>3/4", 1"</u>	<u>CSA CAN/</u>
1176	<u>Frost-resistant,</u>		<u>CSA-B64.2.2</u>	
1177	<u>Automatic Draining</u>			
1178	<u>Type</u>			
1179	<u>Laboratory Faucet</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1035</u>
1180	<u>Backflow Preventer</u>		<u>CSA CAN/</u>	
1181			<u>CSA-B64.7</u>	
1182	<u>Hose Connection</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1052</u>
1183	<u>Backflow Preventer</u>		<u>1/2" - 1"</u>	

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1184

- Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter.*
- 1185 *(30) In IRC, Section P3103.6, the following sentence is added at the end of the*  
 1186 *paragraph: "Vents extending through the wall shall terminate not less than 12 inches*  
 1187 *from the*  
 1188 *wall with an elbow pointing downward."*  
 1189 *(31) In IRC, Section P3104.4, the following sentence is added at the end of the*  
 1190 *paragraph: "Horizontal dry vents below the flood level rim shall be permitted for floor*  
 1191 *and floor sink installations when installed below grade in accordance with Chapter 30,*  
 1192 *Sections P3104.2 and P3104.3. A wall cleanout shall be provided in the vertical vent."*  
 1193 *(32) In IRC, Section E3902.11, the following words are deleted: "family rooms, dining*  
 1194 *rooms, living rooms, parlors, libraries, dens, sunrooms, recreations rooms, closets,*  
 1195 *and similar rooms or areas".*  
 1196 *(33) IRC, Chapter 44, is amended by adding the following reference standard:*  
 1197 *"Standard*  
 1198 *reference* *Referenced in code*  
 1199 *number Title Section number*  
 1200 *USC- Foundation for Cross-Connection Table P2902.3*  
 1201 *FCCCHR Control and Hydraulic Research*  
 1202 *9th University of Southern California*  
 1203 *Edition Kaprielian Hall 300*  
 1204 *Manual Los Angeles CA 90089-2531*  
 1205 *of Cross*  
 1206 *Connection*  
 1207 *Control"*  
 1208 *(34) In IRC, Chapter 44, the following standard is added under NFPA as follows:*  
 1209 *Standard*  
 1210 *reference* *Referenced in code*  
 1211 *number Title section number*  
 1212 *720-09 Standard for the Installation R315.3*  
 1213 *of Carbon Monoxide (CO) Detection*  
 1214 *and Warning Equipment"*
- 
- 1215  
 1216 *(35) IRC, Appendix O, Gray Water Recycling Systems, is deleted and replaced with*  
 1217 *Appendix C of the International Plumbing Code as amended by the state construction*  
 1218 *code.*  
 1219 ***Section 203. Statewide Amendments to the IPC.***  
 1220 *The following are adopted as amendments to the IPC to be applicable statewide:*  
 1221 *(1) A new IPC, Section 101.2, is added as follows: "For clarification, the*  
 1222 *International*  
 1223 *Private Sewage Disposal Code is not part of the plumbing code even though it is in the*  
 1224 *same*  
 1225 *printed volume."*  
 1226 *(2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is*  
 1227 *deleted.*  
 1228 *(3) In IPC, Section 202, the following definition is added: "Certified Backflow*

1225 Preventer Assembly Tester. A person who has shown competence to test Backflow  
prevention  
 1226 assemblies to the satisfaction of the authority having jurisdiction under Utah Code,  
Subsection  
 1227 19-4-104(4)."  
 1228 (4) In IPC, Section 202, the definition for "Cross Connection" is deleted and replaced  
 1229 with the following: "Cross Connection. Any physical connection or potential connection  
or  
 1230 arrangement between two otherwise separate piping systems, one of which contains  
potable  
 1231 water and the other either water of unknown or questionable safety or steam, gas, or  
chemical,  
 1232 whereby there exists the possibility for flow from one system to the other, with the  
direction of  
 1233 flow depending on the pressure differential between the two systems (see "Backflow")."  
 1234 (5) In IPC, Section 202, the definition for "Potable Water" is deleted and replaced  
with  
 1235 the following: "Potable Water. Water free from impurities present in amounts sufficient  
to  
 1236 cause disease or harmful physiological effects and conforming to the Utah Code, Title  
19,  
 1237 Chapters 4 and 5, and the regulations of the public health authority having jurisdiction."  
 1238 (6) In IPC, Table 303.4, the item listed as "Backflow prevention devises" is modified  
 1239 as follows:  
 1240 (a) in the Third-Party Certified field, after the word "Required" add "See footnote 1";  
 1241 (b) in the Third-Party Tested field the following is added: "Required see footnote 1";  
 1242 and  
 1243 (c) a new footnote 1 is added as follows: "1. Third party certification will consist of  
 1244 any combination of two certifications, laboratory or field. Acceptable third party  
laboratory  
 1245 certifying agencies are ASSE, IAPMO, and USC-FCCCHR. USC-FCCCHR currently  
provides

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1246  
the only field testing of backflow protection assemblies. Also see [www.drinkingwater.utah.gov](http://www.drinkingwater.utah.gov)  
 1247 and Division of Drinking Water Rule R309-305-6."  
 1248 (7) IPC, Section 304.3, Meter Boxes, is deleted.  
 1249 (8) IPC, Section 311.1, is deleted.  
 1250 (9) IPC, Sections 312.10 through 312.10.2, are deleted and replaced with the  
 1251 following: "312.10 Backflow assembly testing. The premise owner or his designee shall  
have  
 1252 backflow prevention assemblies operation tested at the time of installation, repair, and  
 1253 relocation and at least on an annual basis thereafter, or more frequently as required by  
the  
 1254 authority having jurisdiction. Testing shall be performed by a Certified Backflow  
Preventer  
 1255 Assembly Tester. The assemblies that are subject to this paragraph are the Spill  
Resistant  
 1256 Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow  
 1257 Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the

Reduced

1258 Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly."  
 1259 (10) In IPC, Section 403.1, a new footnote g is added as follows: "FOOTNOTE: g.  
 1260 When provided, in public toilet facilities there shall be an equal number of diaper

changing

1261 facilities in male toilet rooms and female toilet rooms."  
 1262 (11) A new IPC, Section 406.4, is added as follows: "406.4 Automatic clothes washer  
 1263 safe pans. Safe pans, when installed under automatic clothes washers, shall be installed

in

1264 accordance with Section 504.7."  
 1265 (12) A new IPC, Section 412.5, is added as follows: "412.5 Public toilet rooms. All  
 1266 public toilet rooms shall be equipped with at least one floor drain."  
 1267 (13) In IPC, Section 504.7.2, the following is added at the end of the section: "When  
 1268 permitted by the code official, the pan drain may be directly connected to a soil stack,

waste

1269 stack, or branch drain. The pan drain shall be individually trapped and vented as

required in

1270 Section 907.1. The pan drain shall not be directly or indirectly connected to any vent.

The trap

1271 shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044."

1272 (14) A new IPC, Section 504.7.3, is added as follows: "504.7.3 Pan Designation. A  
 1273 water heater pan shall be considered an emergency receptor designated to receive the

discharge

1274 of water from the water heater only and shall not receive the discharge from any other

fixtures,

1275 devises or equipment."

1276 (15) IPC, Section 602.3, is deleted and replaced with the following: "602.3 Individual

1277

water supply. Where a potable public water supply is not available, individual sources of

1278 potable water supply shall be utilized provided that the source has been developed in

1279 accordance with Utah Code, Sections 73-3-1, 73-3-3, and 73-3-25, as administered by

the

1280 Department of Natural Resources, Division of Water Rights. In addition, the quality of

the

1281 water shall be approved by the local health department having jurisdiction. The source

shall

1282 supply sufficient quantity of water to comply with the requirements of this chapter."

1283 (16) IPC, Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5, and 602.3.5.1, are  
 1284 deleted.

1285 (17) A new IPC, Section 604.4.1, is added as follows: "604.4.1 Manually operated  
 1286 metering faucets. Self closing or manually operated metering faucets shall provide a

flow of

1287 water for at least 15 seconds without the need to reactivate the faucet."

1288 (18) IPC, Section 606.5, is deleted and replaced with the following: "606.5 Water

1289 pressure booster systems. Water pressure booster systems shall be provided as required

by

1290 Section 606.5.1 through 606.5.11."

1291 (19) A new IPC, Section 606.5.11, is added as follows: "606.5.11 Prohibited

1292 installation. In no case shall a booster pump be allowed that will lower the pressure in

*the*

1293 *public main to less than 20 psi."*  
 1294 *(20) IPC, Table 608.1, is deleted and replaced with the following:*  
 1295

"TABLE 608.1

1296

General Methods of Protection

1297	<u>Assembly</u>	<u>Degree</u>	<u>Application</u>	<u>Installation Criteria</u>
1298	<u>(applicable</u>	<u>of</u>		
1299	<u>standard)</u>	<u>Hazard</u>		
1300	<u>Reduced</u>	<u>High or</u>	<u>Backpressure or</u>	<u>a. The bottom of each</u>
1301	<u>Pressure</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>RP assembly shall</u>
1302	<u>Principle Backflow</u>		<u>1/2" - 16"</u>	<u>be a minimum of 12</u>
1303	<u>Preventer (AWWA</u>		<u>inches above the</u>	
1304	<u>C511, USC-FCCCHR,</u>		<u>ground or floor.</u>	
1305	<u>ASSE 1013</u>		<u>b. RP assemblies shall</u>	
1306	<u>CSA CNA/CSA-B64.4)</u>		<u>NOT be installed in</u>	
1307	<u>and Reduced Pressure</u>		<u>a pit.</u>	

1308

	<u>Detector Assembly</u>		<u>c. The relief valve on</u>	
1309	<u>(ASSE 1047, USC-</u>		<u>each RP assembly</u>	
1310	<u>FCCCHR)</u>		<u>shall not be directly</u>	
1311			<u>connected to any waste</u>	
1312			<u>disposal line, including</u>	
1313			<u>sanitary sewer, storm rains,</u>	
1314			<u>or vents.</u>	
1315			<u>d. The assembly shall be</u>	
1316			<u>installed in a horizontal</u>	
1317			<u>position only unless listed</u>	
1318			<u>or approved for vertical</u>	
1319			<u>installation.</u>	
1320	<u>Double Check</u>	<u>Low</u>	<u>Backpressure or</u>	<u>a. If installed in a pit,</u>
1321	<u>Backflow</u>	<u>Backsiphonage</u>	<u>the DC assembly</u>	
1322	<u>Prevention</u>	<u>1/2" - 16"</u>	<u>shall be installed</u>	
1323	<u>Assembly</u>		<u>with a minimum of</u>	
1324	<u>(AWWA C510,</u>		<u>12 inches of</u>	
1325	<u>USC-FCCCHR,</u>		<u>clearance between</u>	
1326	<u>ASSE 1015)</u>		<u>all sides of the</u>	
1327	<u>Double Check</u>		<u>vault including the</u>	
1328	<u>Detector Assembly</u>		<u>floor and roof or</u>	
1329	<u>Backflow Preventer</u>		<u>ceiling with adequate</u>	
1330	<u>(ASSE 1048,</u>		<u>room for testing and</u>	
1331	<u>USC-FCCCHR)</u>		<u>maintenance.</u>	
1332			<u>b. Shall be installed in a</u>	
1333			<u>horizontal position unless</u>	
1334			<u>listed or approved for</u>	
1335			<u>vertical installation.</u>	

1336 Pressure High or Backsiphonage a. Shall not be installed  
 1337 Vacuum Low 1/2" - 2" in an area that could be  
 1338 Breaker subjected to

1339  
Assembly backpressure or  
 1340 (ASSE 1020, back drainage  
 1341 USC-FCCCHR) conditions.  
 1342 b. Shall be installed a  
 1343 minimum of 12 inches  
 1344 above all downstream  
 1345 pipng and the highest point  
 1346 of use.  
 1347 c. Shall not be installed  
 1348 below ground or in a vault  
 1349 or pit.  
 1350 d. Shall be installed in a  
 1351 vertical position only.  
 1352 Spill High or Backsiphonage a. Shall not be  
 1353 Resistant Low 1/4" - 2" installed in an  
 1354 Vacuum area that could  
 1355 Breaker be subjected to  
 1356 (ASSE 1056, backpressure or  
 1357 USC-FCCCHR) back drainage  
 1358 conditions.  
 1359 b. Shall be installed a  
 1360 minimum of 12 inches  
 1361 above all downstream  
 1362 pipng and the highest point  
 1363 of use.  
 1364 c. Shall not be installed  
 1365 below ground or in a vault  
 1366 or pit.  
 1367 d. Shall be installed in a  
 1368 vertical position only.  
 1369 General The assembly owner,

1370  
Installation when necessary, shall  
 1371 Criteria provide devices or  
 1372 structures to facilitate  
 1373 testing, repair, and/or  
 1374 maintenance and to ensure  
 1375 the safety of the backflow  
 1376 technician.  
 1377 Assemblies shall not be  
 1378 installed more than five feet  
 1379 off the floor unless a  
 1380 permanent platform is  
 1381 installed.

1382 \_\_\_\_\_ *The body of the assembly*  
 1383 \_\_\_\_\_ *shall not be closer than 12*  
 1384 \_\_\_\_\_ *inches, to any wall, ceiling*  
 1385 \_\_\_\_\_ *or encumbrance, and shall*  
 1386 \_\_\_\_\_ *be accessible for testing,*  
 1387 \_\_\_\_\_ *repair and/or maintenance.*  
 1388 \_\_\_\_\_ *In cold climates, assemblies*  
 1389 \_\_\_\_\_ *shall be protected from*  
 1390 \_\_\_\_\_ *freezing by a means*  
 1391 \_\_\_\_\_ *acceptable to the code*  
 1392 \_\_\_\_\_ *official.*  
 1393 \_\_\_\_\_ *Assemblies shall be*  
 1394 \_\_\_\_\_ *maintained as an intact*  
 1395 \_\_\_\_\_ *assembly."*  
 1396 \_\_\_\_\_ *(21) IPC, Table 608.1.1 is added as follows:*  
 1397 \_\_\_\_\_

"TABLE 608.1.1

1398

Specialty Backflow Devices for low hazard use only

1399	<u>Device</u>	<u>Degree of</u>	<u>Application</u>	<u>Applicable</u>
1400	<u>Hazard</u>	<u>Standard</u>		

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1401	<u>Air Gap</u>	<u>High or</u>	<u>Backsiphonage</u>	<u>See Table 608.15.1</u>
1402	<u>Low</u>		<u>ASME A112.1.2</u>	
1403	<u>Antisiphon-type</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1002</u>
1404	<u>Water Closet Flush</u>		<u>CSA CAN/</u>	
1405	<u>Tank Ball Cock</u>		<u>CSA-B125</u>	
1406	<u>Atmospheric</u>	<u>High or</u>	<u>Backsiphonage</u>	<u>ASSE 1001</u>
1407	<u>Vacuum</u>	<u>Low</u>	<u>a. Shall not be</u>	<u>USC-FCCCHR,</u>
1408	<u>Breaker</u>		<u>installed in an</u>	<u>CSA</u>
1409			<u>area that could be</u>	<u>CAN/CSA-B64.1.1</u>
1410			<u>subjected to</u>	
1411			<u>backpressure or back</u>	
1412			<u>drainage conditions.</u>	
1413			<u>b. Shall not be installed</u>	
1414			<u>where it may be subjected</u>	
1415			<u>to continuous pressure</u>	
1416			<u>for more than 12 consecutive</u>	
1417			<u>hours at any time.</u>	
1418			<u>c. Shall be installed a</u>	
1419			<u>minimum of six inches</u>	
1420			<u>above all downstream piping</u>	
1421			<u>and the highest point of use.</u>	
1422			<u>d. Shall be installed on the</u>	
1423			<u>discharge (downstream) side</u>	
1424			<u>of any valves.</u>	
1425			<u>e. The AVB shall be installed</u>	

1426	<u>in a vertical position only.</u>			
1427	<u>Dual check valve</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1024</u>
1428	<u>Backflow Preventer</u>	<u>or Backpressure</u>		
1429	<u>1/4" - 1"</u>			
1430	<u>Backflow Preventer</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1012</u>
1431	<u>with Intermediate</u>	<u>Residential</u>	<u>or Backpressure</u>	<u>CSA CAN/</u>

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1432	<u>Atmospheric Vent</u>	<u>Boiler</u>	<u>1/4" - 3/4"</u>	<u>CSA-B64.3</u>
1433	<u>Dual check valve</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1022</u>
1434	<u>type Backflow</u>	<u>or Backpressure</u>		
1435	<u>Preventer for</u>	<u>1/4" - 3/8"</u>		
1436	<u>Carbonated Beverage</u>			
1437	<u>Dispensers/Post</u>			
1438	<u>Mix Type</u>			
1439	<u>Hose-connection</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1011</u>
1440	<u>Vacuum Breaker</u>	<u>1/2", 3/4", 1"</u>	<u>CSA CAN/</u>	
1441	<u>CSA-B64.2</u>			
1442	<u>Vacuum Breaker</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1019</u>
1443	<u>Wall Hydrants,</u>	<u>3/4", 1"</u>	<u>CSA CAN/</u>	
1444	<u>Frost-resistant,</u>	<u>CSA-B64.2.2</u>		
1445	<u>Automatic Draining</u>			
1446	<u>Type</u>			
1447	<u>Laboratory Faucet</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1035</u>
1448	<u>Backflow Preventer</u>	<u>CSA CAN/</u>		
1449	<u>CSA-B64.7</u>			
1450	<u>Hose Connection</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1052</u>
1451	<u>Backflow Preventer</u>	<u>1/2" - 1"</u>		
1452	<u>Installation Guidelines: The above specialty devices shall be installed in accordance</u>			
with their	<u>listing and the manufacturer's instructions and the specific provisions of this chapter."</u>			
1453	<u>(22) In IPC, Section 608.6, the following sentence is added at the end of the</u>			
1454	<u>paragraph:</u>			
1455	<u>"Any connection between potable water piping and sewer-connected waste shall be</u>			
protected	<u>by an air gap."</u>			
1456	<u>(23) IPC, Section 608.7, is deleted.</u>			
1457	<u>(24) In IPC, Section 608.11, the following sentence is added at the end of the</u>			
1458	<u>paragraph: "The coating and installation shall conform to NSF Standard 61 and</u>			
1459	<u>application of</u>			
1460	<u>the coating shall comply with the manufacturer's instructions."</u>			
1461	<u>(25) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3</u>			
1462	<u>Backflow preventer with intermediate atmospheric vent. Backflow preventers with</u>			

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1463	<u>intermediate atmospheric vents shall conform to ASSE 1012 or CAS CAN/CAS-B64.3. These</u>			
1464	<u>devices shall be permitted to be installed on residential boilers only, without chemical</u>			
1465	<u>treatment, where subject to continuous pressure conditions. The relief opening shall</u>			
discharge	<u>by air gap and shall be prevented from being submerged."</u>			
1466				

- 1467 (26) IPC, Section 608.13.4, is deleted.  
 1468 (27) IPC, Section 608.13.9, is deleted.  
 1469 (28) IPC, Section 608.15.3, is deleted and replaced with the following: "608.15.3  
 1470 Protection by a backflow preventer with intermediate atmospheric vent. Connections to  
 1471 residential boilers only, without chemical treatment, shall be protected by a backflow  
preventer  
 1472 with an intermediate atmospheric vent."  
 1473 (29) IPC, Section 608.15.4, is deleted and replaced with the following: "608.15.4  
 1474 Protection by a vacuum breaker. Openings and outlets shall be protected by  
atmospheric-type  
 1475 or pressure-type vacuum breakers. The critical level of the atmospheric vacuum breaker  
shall  
 1476 be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device.  
The  
 1477 critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304  
mm)  
 1478 above the flood level rim of the fixture or device. Fill valves shall be set in accordance  
with  
 1479 Section 425.3.1. Vacuum breakers shall not be installed under exhaust hoods or similar  
 1480 locations that will contain toxic fumes or vapors. Pipe-applied vacuum breakers shall be  
 1481 installed not less than 6 inches (152 mm) above the flood level rim of the fixture,  
receptor, or  
 1482 device served. No valves shall be installed downstream of the atmospheric vacuum  
breaker."  
 1483 (30) In IPC, Section 608.15.4.2, the following is added after the first sentence:  
 1484 "Add-on-backflow prevention devices shall be non-removable. In climates where  
freezing  
 1485 temperatures occur, a listed self-draining frost proof hose bibb with an integral  
backflow  
 1486 preventer shall be used."  
 1487 (31) In IPC, Section 608.16.2, the first sentence of the paragraph is deleted and  
 1488 replaced as follows: "608.16.2 Connections to boilers. The potable water supply to the  
 1489 residential boiler only, without chemical treatment, shall be equipped with a backflow  
 1490 preventer with an intermediate atmospheric vent complying with ASSE 1012 or CSA  
 1491 CAN/CSA B64.3."  
 1492 (32) IPC, Section 608.16.3, is deleted and replaced with the following: "608.16.3  
Heat  
 1493 exchangers. Heat exchangers shall be separated from potable water by double-wall
- 
- 1494  
construction. An air gap open to the atmosphere shall be provided between the two walls.  
 1495 Exceptions:  
 1496 1. Single wall heat exchangers shall be permitted when all of the following conditions  
are met:  
 1497 a. It utilizes a heat transfer medium of potable water or contains only substances which  
are  
 1498 recognized as safe by the United States Food and Drug Administration (FDA);  
 1499 b. The pressure of the heat transfer medium is maintained less than the normal minimum  
 1500 operating pressure of the potable water system; and  
 1501 c. The equipment is permanently labeled to indicate only additives recognized as safe by

the  
 1502 FDA shall be used.  
 1503 2. Steam systems that comply with paragraph 1 above.  
 1504 3. Approved listed electrical drinking water coolers."  
 1505 (33) In IPC, Section 608.16.4.1, a new exception is added as follows: "Exception: All  
 1506 class 1 and 2 systems containing chemical additives consisting of strictly glycerine (C.P.  
or  
 1507 U.S.P. 96.5 percent grade) or propylene glycol shall be protected against backflow with  
a  
 1508 double check valve assembly. Such systems shall include written certification of the  
chemical  
 1509 additives at the time of original installation and service or maintenance."  
 1510 (34) IPC, Section 608.16.7, is deleted and replaced with the following: "608.16.7  
 1511 Chemical dispensers. Where chemical dispensers connect to the water distribution  
system, the  
 1512 water supply system shall be protected against backflow in accordance with Section  
 608.13.1,  
 1513 Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8."  
 1514 (35) IPC, Section 608.16.8, is deleted and replaced with the following: "608.16.8  
 1515 Portable cleaning equipment. Where the portable cleaning equipment connects to the  
water  
 1516 distribution system, the water supply system shall be protected against backflow in  
accordance  
 1517 with Section 608.13.1, Section 608.13.2 or Section 608.13.8."  
 1518 (36) A new IPC, Section 608.16.11, is added as follows: "608.16.11 Automatic and  
 1519 coin operated car washes. The water supply to an automatic or coin operated car wash  
shall be  
 1520 protected in accordance with Section 608.13.1 or Section 608.13.2."  
 1521 (37) IPC, Section 608.17, is deleted.  
 1522 (38) IPC, Section 701.2, is deleted and replaced with the following: "701.2 Sewer  
 1523 required. Every building in which plumbing fixtures are installed and all premises  
having  
 1524 drainage piping shall be connected to a public sewer where the sewer is within 300 feet  
of the

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1525  
property line in accordance with Utah Code, Section 10-8-38; or an approved private sewage  
 1526 disposal system in accordance with Utah Administrative Code, Rule R317-4, as  
administered  
 1527 by the Department of Environmental Quality, Division of Water Quality."  
 1528 (39) IPC, Section 901.3, is deleted and replaced with the following: "901.3 Chemical  
 1529 waste vent system. The vent system for a chemical waste system shall be independent of  
the  
 1530 sanitary vent system and shall terminate separately through the roof to the open air or to  
an air  
 1531 admittance valve provided at least one chemical waste vent in the system terminates  
separately  
 1532 through the roof to the open air."  
 1533 (40) In IPC, Section 904.1, when the number of inches is to be specified, "12 inches  
 1534 (304.8mm)" is inserted.

- 1535 (41) In IPC, Section 904.6, the following sentence is added at the end of the  
paragraph:  
1536 "Vents extending through the wall shall terminate not less than 12 inches from the wall  
with an  
1537 elbow pointing downward."  
1538 (42) In IPC, Section 905.4, the following sentence is added at the end of the  
paragraph:  
1539 "Horizontal dry vents below the flood level rim shall be permitted for floor drain and  
floor sink  
1540 installations when installed in accordance with Sections 702.2, 905.2 and 905.3 and  
provided  
1541 with a wall clean out."  
1542 (43) In IPC, Section 917.8, a new exception is added as follows: "Exception: Air  
1543 admittance valves shall be permitted in non-neutralized special waste systems provided  
that  
1544 they conform to the requirements in Sections 901.3 and 702.5, are tested to ASTM  
F1412, and  
1545 are certified by ANSI/ASSE."  
1546 (44) In IPC, Section 1002.4, the following is added at the end of the paragraph:  
1547 "Approved Means of Maintaining Trap Seals. Approved means of maintaining trap seals  
1548 include the following, but are not limited to the methods cited:  
1549 (a) Listed Trap Seal Primer  
1550 (b) A hose bibb or bibbs within the same room  
1551 (c) Drainage from an untrapped lavatory discharging to the tailpiece of those fixture  
traps  
1552 which require priming. All fixtures shall be in the same room and on the same floor level  
as the  
1553 trap primer  
1554 (d) Barrier type floor drain trap seal protection device meeting ASSE Standard 1072  
1555 (e) Deep seal p-trap"
- 
- 1556  
(45) IPC, Section 1104.2, is deleted and replaced with the following: "1104.2  
1557 Combining storm and sanitary drainage prohibited. The combining of sanitary and  
storm  
1558 drainage systems is prohibited."  
1559 (46) IPC, Section 1108, is deleted.  
1560 (47) In IPC, Chapter 14, the following referenced standard is added under ASSE:  
1561 "Standard  
1562 reference Referenced in code  
1563 number Title section number  
1564 1072-2007 Performance Requirements for 1004.2  
1565 Barrier Type Floor Drain Trap  
1566 Seal Protection Devices"  
1567 (48) In IPC, Chapter 14, the following referenced standard is added:  
1568 "Standard  
1569 reference Referenced in code  
1570 number Title section number  
1571 USC- Foundation for Cross-Connection Table 608.1  
1572 FCCCHR Control and Hydraulic Research

1573 9th Edition University of Southern California  
 1574 Manual of Kaprielian Hall 300  
 1575 Cross Los Angeles CA 90089-2531  
 1576 Connection  
 1577 Control"  
 1578 (49) IPC, Appendix C, is deleted and replaced with the following Appendix C, Gray  
 1579 Water Recycling Systems, which may be adopted by local jurisdictions only as provided  
under  
 1580 the State Construction Code: "Appendix C Gray Water Recycling Systems  
 1581 Note: Section 301.3 of this code requires all plumbing fixtures that receive water or  
waste to  
 1582 discharge to the sanitary drainage system of the structure. In order to allow for the  
utilization of  
 1583 a gray water system, Section 301.3 should be revised to read as follows:  
 1584 (a) In jurisdictions which have adopted this Appendix C as amended as a local  
amendment as  
 1585 provided herein, Section 301.3 of the IPC is deleted and replaced with the following:  
 1586 301.3 Connections to drainage system. All plumbing fixtures, drains, appurtenances,  
and

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1587  
appliances used to receive or discharge liquid wastes or sewage shall be directly connected to  
 1588 the sanitary drainage system of the building or premises, in accordance with the  
requirements  
 1589 of this code. This section shall not be construed to prevent indirect waste systems  
required by  
 1590 Chapter 8.  
 1591 Exception: Bathtubs, showers, lavatories, clothes washers, laundry trays, and approved  
clear  
 1592 water wastes shall not be required to discharge to the sanitary drainage system where  
such  
 1593 fixtures discharge to an approved gray water system for flushing of water closets and  
urinals or  
 1594 for subsurface landscape irrigation.  
 1595 SECTION C101 GENERAL  
 1596 C101.1 Scope. The provisions of this appendix shall govern the materials, design,  
 1597 construction, and installation of gray water systems for flushing of water closets and  
urinals  
 1598 (see Figure 2).  
 1599 C101.2 Recording. The existence of a gray water recycling system shall be recorded on  
the  
 1600 deed of ownership for that property.  
 1601 C101.3 Definition. The following term shall have the meaning show herein.  
 1602 GRAY WATER. Waste discharged from lavatories, bathtubs, showers, clothes washers,  
 1603 laundry trays, and clear water wastes which have a pH of 6.0 to 9.0; are non-  
flammable;  
 1604 non-combustible; without objectionable odors; non-highly pigmented; and will not  
interfere  
 1605 with the operation of the sewer treatment facility.  
 1606 C101.4 Permits. Permits shall be required in accordance with Section 106 and may also

*be*  
 1607 *required by the local health department.*  
 1608 *C101.5 Installation. In addition to the provisions of Section C101, systems for flushing*  
*of*  
 1609 *water closets and urinals shall comply with Section C102. Except as provided for in*  
*Appendix*  
 1610 *C, all systems shall comply with the provisions of the International Plumbing Code.*  
 1611 *C101.6 Materials. Above-ground drain, waste, and vent piping for gray water systems*  
*shall*  
 1612 *conform to one of the standards listed in Table 702.1 . Gray water underground building*  
 1613 *drainage and vent pipe shall conform to one of the standards listed in Table 702.2.*  
 1614 *C101.7 Tests. Drain, waste, and vent piping for gray water systems shall be tested in*  
 1615 *accordance with Section 312.*  
 1616 *C101.8 Inspections. Gray water systems shall be inspected in accordance with Section*  
*107.*  
 1617 *C101.9 Potable water connections. The potable water supply to any building utilizing a*  
*gray*

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1618  
*water recycling system shall be protected against backflow by a reduced pressure principle*  
 1619 *backflow preventer installed in accordance with this Code.*  
 1620 *C101.10 Waste water connections. Gray water recycling systems shall receive only the*  
*waste*  
 1621 *discharge of bathtubs, showers, lavatories, clothes washers, or laundry trays, and other*  
*clear*  
 1622 *water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible;*  
*without*  
 1623 *objectionable odors; non-highly pigmented; and will not interfere with the operation of*  
*the*  
 1624 *sewer treatment facility.*  
 1625 *C101.11 Collection reservoir. Gray water shall be collected in an approved reservoir*  
 1626 *constructed of durable, nonabsorbent, and corrosion-resistant materials. The reservoir*  
*shall be a*  
 1627 *closed and gas-tight vessel. Access openings shall be provided to allow inspection and*  
*cleaning*  
 1628 *of the reservoir interior.*  
 1629 *C101.12 Filtration. Gray water entering the reservoir shall pass through an approved*  
*cartridge*  
 1630 *filter having a design flow rate of less than 0.375 gallons per minute per square foot of*  
 1631 *effective filter area, or a sand or diatomaceous earth filter designed to handle the*  
*anticipated*  
 1632 *volume of water.*  
 1633 *C101.12.1 Required valve. A full-open valve shall be installed downstream of the last*  
*fixture*  
 1634 *connection to the gray water discharge pipe before entering the required filter.*  
 1635 *C101.13 Overflow. The collection reservoir shall be equipped with an overflow pipe*  
*having*  
 1636 *the same or larger diameter as the influent pipe for the gray water. The overflow pipe*  
*shall be*  
 1637 *trapped and indirectly connected to the sanitary drainage system.*

1638 C101.14 Drain. A drain shall be located at the lowest point of the collection reservoir  
and shall  
 1639 be indirectly connected to the sanitary drainage system. The drain shall be the same  
diameter as  
 1640 the overflow pipe required in Section C101.12.  
 1641 C101.15 Vent required. The reservoir shall be provided with a vent sized in accordance  
with  
 1642 Chapter 9 and based on the diameter of the reservoir influent pipe.  
 1643 SECTION C102 SYSTEMS FOR FLUSHING WATER CLOSETS AND URINALS  
 1644 C102.1 Collection reservoir. The holding capacity of the reservoir shall be a minimum  
of  
 1645 twice the volume of water required to meet the daily flushing requirements of the fixtures  
 1646 supplied with gray water, but not less than 50 gallons (189 L). The reservoir shall be  
sized to  
 1647 limit the retention time of gray water to a maximum of 72 hours.  
 1648 C102.2 Disinfection. Gray water shall be disinfected by an approved method that  
employs one

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1649 or more disinfectants such as chlorine, iodine, or ozone that is recommended for use with the  
 1650 pipes, fittings, and equipment by the manufacturer of the pipe, fittings, and equipment. A  
 1651 minimum of 1ppm residual free chlorine shall be maintained in the gray water recycling  
system  
 1652 reservoir.  
 1653 C102.3 Makeup water. Potable water shall be supplied as a source of makeup water for  
the  
 1654 gray water system. The potable water supply shall be protected against backflow by a  
reduced  
 1655 pressure principle backflow preventer installed in accordance with this Code. There  
shall be a  
 1656 full-open valve located on the makeup water supply line to the collection reservoir.  
 1657 C102.4 Coloring. The gray water shall be dyed blue or green with a food grade  
vegetable dye  
 1658 before such water is supplied to the fixtures.  
 1659 C102.5 Materials. Distribution piping shall conform to one of the standards listed in  
Table  
 1660 605.4.  
 1661 C102.6 Identification. Distribution piping and reservoirs shall be identified as  
containing  
 1662 nonpotable water. Piping identification shall be in accordance with Section 608.8.  
 1663 SECTION C103 SUBSURFACE LANDSCAPE IRRIGATION SYSTEMS  
 1664 C103.1 Gray water recycling systems utilized for subsurface irrigation for single family  
 1665 residences shall comply with the requirements of Utah Administrative Code, R317-401,  
Gray  
 1666 Water Systems. Gray water recycling systems utilized for subsurface irrigation for other  
 1667 occupancies shall comply with Utah Administrative Code, R317-3 Design Requirements  
for  
 1668 Wastewater Collection, Treatment and Disposal Systems, and Utah Administrative  
Code,  
 1669 R317-4, Onsite Wastewater Systems."

1670 **Section 204. Statewide Amendments to the IMC.**  
 1671 The following are adopted as amendments to the IMC to be applicable statewide:  
 1671a **H. (1) In IMC, Section 403, a new Section 403.8 is added as follows: "Retrospective**  
*effect.*  
 1671b **Removal, alteration, or abandonment shall not be required, and continued use and**  
 1671c **maintenance shall be allowed, for a ventilation system within an existing installation**  
*that*  
 1671d **complies with the requirements of this Section 403 regardless whether the ventilation**  
*system*  
 1671e **satisfied the minimum ventilation rate requirements of prior law."**  
 1672 [ ~~H~~ ] (2) .H IMC, Section 1101.10, is deleted.  
 1673 **Section 205. Statewide Amendments to the IFGC.**  
 1674 The following are adopted as amendments to the IFGC to be applicable statewide:  
 1675 (1) In IFGC, Chapter 4, Section 401, General, a new section IFGC, Section 401.9, is  
 1676 added as follows: "401.9 Meter protection. Fuel gas services shall be in an approved  
*location*  
 1677 and/or provided with structures designed to protect the fuel gas meter and surrounding  
*pipng*  
 1678 from physical damage, including falling, moving, or migrating ice and snow. If an added  
 1679 structure is used, it must still provide access for service and comply with the IBC or the  
*IRC."*

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1680  
**Section 206. Statewide Amendments to the NEC.**  
 1681 The following are adopted as amendments to the NEC to be applicable statewide:  
 1682 (1) During the period of time when the adopted IRC has not yet incorporated the  
*latest*  
 1683 residential electrical provisions contained in the adopted NEC, the IRC provisions shall  
*prevail*  
 1684 as the adopted residential electrical standards applicable to installations applicable  
*under the*  
 1685 IRC. All other installations shall comply with the adopted NEC.  
 1686 (2) In NEC, Section 310.15(B)(6), the second sentence is deleted and replaced with  
*the*  
 1687 following: "For application of this section, the main power feeder shall be the feeder(s)  
 1688 between the main disconnect and the panelboard(s)."  
 1689 (3) In NEC, Section 338.10(B)(4)(a), the following words are added at the end of the  
 1690 first sentence after Section 334: "excluding Section 334.80."  
 1691 **Section 207. Statewide Amendments to the IECC.**  
 1692 The following are adopted as amendments to the IECC to be applicable statewide:  
 1693 (1) In IECC, Section 504.4, a new exception is added as follows: "Exception: Heat  
 1694 traps, other than the arrangement of piping and fittings, shall be prohibited unless a  
*means of*  
 1695 controlling thermal expansion can be ensured as required in the IPC Section 607.3."  
 1696 **Section 208. Installation and Safety Requirements for Mobile Homes Built Prior to**  
 1697 **June 15, 1976.**  
 1698 (1) Mobile homes built prior to June 15, 1976 which are subject to relocation,  
*building*  
 1699 alteration, remodeling, or rehabilitation shall comply with the following:  
 1700 (a) Related to exits and egress windows:

1701 (i) Egress windows. The home has at least one egress window in each bedroom, or a  
 1702 window that meets the minimum specifications of the U.S. Department of Housing and  
Urban  
 1703 Development's (HUD) Manufactured Homes Construction and Safety Standards  
(MHCSS)  
 1704 program as set forth in 24 C.F.R. Parts 3280 and 3283, MHCSS 3280.106 and 3280.404  
for  
 1705 manufactured homes. These standards require the window to be at least 22 inches in the  
 1706 horizontal or vertical position in its least dimension and at least five square feet in area.  
The  
 1707 bottom of the window opening shall be no more than 36 inches above the floor, and the  
locks  
 1708 and latches and any window screen or storm window devices that need to be operated to  
permit  
 1709 exiting shall not be located more than 54 inches above the finished floor.  
 1710 (ii) Exits. The home is required to have two exterior exit doors, located remotely from

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1711  
each other, as required in MHCSS 3280.105. This standard requires that single-section homes  
 1712 have the doors no less than 12 feet, center-to-center, from each other, and multisection  
home  
 1713 doors no less than 20 feet center-to center from each other when measured in a straight  
line,  
 1714 regardless of the length of the path of travel between the doors. One of the required exit  
doors  
 1715 must be accessible from the doorway of each bedroom and no more than 35 feet away  
from any  
 1716 bedroom doorway. An exterior swing door shall have a 28-inch-wide by 74-inch-high  
clear  
 1717 opening and sliding glass doors shall have a 28-inch-wide by 72-inch-high clear  
opening. Each  
 1718 exterior door other than screen/storm doors shall have a key-operated lock that has a  
passage  
 1719 latch; locks shall not require the use of a key or special tool for operation from the  
inside of the  
 1720 home.  
 1721 (b) Related to flame spread:  
 1722 (i) Walls, ceilings, and doors. Walls and ceilings adjacent to or enclosing a furnace or  
 1723 water heater shall have an interior finish with a flame-spread rating not exceeding 25.  
Sealants  
 1724 and other trim materials two inches or less in width used to finish adjacent surfaces  
within  
 1725 these spaces are exempt from this provision, provided all joints are supported by  
framing  
 1726 members or materials with a flame spread rating of 25 or less. Combustible doors  
providing  
 1727 interior or exterior access to furnace and water heater spaces shall be covered with  
materials of  
 1728 limited combustibility (i.e. 5/16-inch gypsum board, etc.), with the surface allowed to be  
 1729 interrupted for louvers ventilating the space. However, the louvers shall not be of

materials of  
 1730 greater combustibility than the door itself (i.e., plastic louvers on a wooden door).  
Reference  
 1731 MHCSS 3280.203.  
 1732 (ii) Exposed interior finishes. Exposed interior finishes adjacent to the cooking range  
 1733 (surfaces include vertical surfaces between the range top and overhead cabinets, the  
ceiling, or  
 1734 both) shall have a flame-spread rating not exceeding 50, as required by MHCSS  
 3280.203.  
 1735 Backsplashes not exceeding six inches in height are exempted. Ranges shall have a  
vertical  
 1736 clearance above the cooking top of not less than 24 inches to the bottom of combustible  
 1737 cabinets, as required by MHCSS 3280.204(e).  
 1738 (c) Related to smoke detectors:  
 1739 (i) Location. A smoke detector shall be installed on any ceiling or wall in the hallway  
 1740 or space communicating with each bedroom area between the living area and the first  
bedroom  
 1741 door, unless a door separates the living area from that bedroom area, in which case the  
detector

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1742  
shall be installed on the living-area side, as close to the door as practicable, as required by  
 1743 MHCSS 3280.208. Homes with bedroom areas separated by any one or combination of  
 1744 common-use areas such as a kitchen, dining room, living room, or family room (but not  
a  
 1745 bathroom or utility room) shall be required to have one detector for each bedroom area.  
When  
 1746 located in the hallways, the detector shall be between the return air intake and the living  
areas.  
 1747 (ii) Switches and electrical connections. Smoke detectors shall have no switches in the  
 1748 circuit to the detector between the over-current protection device protecting the branch  
circuit  
 1749 and the detector. The detector shall be attached to an electrical outlet box and  
connected by a  
 1750 permanent wiring method to a general electrical circuit. The detector shall not be placed  
on the  
 1751 same branch circuit or any circuit protected by a ground-fault circuit interrupter.  
 1752 (d) Related to solid-fuel-burning stoves/fireplaces:  
 1753 (i) Solid-fuel-burning fireplaces and fireplace stoves. Solid-fuel-burning, factory-built  
 1754 fireplaces, and fireplace stoves may be used in manufactured homes, provided that they  
are  
 1755 listed for use in manufactured homes and installed according to their  
listing/manufacturer's  
 1756 instructions and the minimum requirements of MHCSS 3280.709(g).  
 1757 (ii) Equipment. A solid-fuel-burning fireplace or fireplace stove shall be equipped  
with  
 1758 an integral door or shutters designed to close the fire chamber opening and shall  
include  
 1759 complete means for venting through the roof, a combustion air inlet, a hearth extension,  
and

1760 means to securely attach the unit to the manufactured home structure.  
 1761 (A) Chimney. A listed, factory-built chimney designed to be attached directly to the  
 1762 fireplace/fireplace stove and equipped with, in accordance with the listing, a termination  
device  
 1763 and spark arrester, shall be required. The chimney shall extend at least three feet above  
the part  
 1764 of the roof through which it passes and at least two feet above the highest elevation of  
any part  
 1765 of the manufactured home that is within 10 feet of the chimney.  
 1766 (B) Air-intake assembly and combustion-air inlet. An air-intake assembly shall be  
 1767 installed in accordance with the terms of listings and the manufacturer's instruction. A  
 1768 combustion air inlet shall conduct the air directly into the fire chamber and shall be  
designed to  
 1769 prevent material from the hearth from dropping on the area beneath the manufactured  
home.  
 1770 (C) Hearth. The hearth extension shall be of noncombustible material that is a  
 1771 minimum of 3/8-inch thick and shall extend a minimum of 16 inches in front and eight  
inches  
 1772 beyond each side of the fireplace/fireplace stove opening. The hearth shall also extend  
over the

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1773 entire surface beneath a fireplace stove and beneath an elevated and overhanging fireplace.  
 1774 (e) Related to electrical wiring systems:  
 1775 (i) Testing. All electrical systems shall be tested for continuity in accordance with  
 1776 MHCSS 3280.810, to ensure that metallic parts are properly bonded; tested for  
operation, to  
 1777 demonstrate that all equipment is connected and in working order; and given a polarity  
check,  
 1778 to determine that connections are proper.  
 1779 (ii) 5.2 Protection. The electrical system shall be properly protected for the required  
 1780 amperage load. If the unit wiring employs aluminum conductors, all receptacles and  
switches  
 1781 rated at 20 amperes or less that are directly connected to the aluminum conductors shall  
be  
 1782 marked CO/ALA. Exterior receptacles, other than heat tape receptacles, shall be of the  
 1783 ground-fault circuit interrupter (GFI) type. Conductors of dissimilar metals  
(copper/aluminum  
 1784 or copper-clad aluminum) must be connected in accordance with NEC, Section 110-14.  
 1785 (f) Related to replacement furnaces and water heaters:  
 1786 (i) Listing. Replacement furnaces or water heaters shall be listed for use in a  
 1787 manufactured home. Vents, roof jacks, and chimneys necessary for the installation shall  
be  
 1788 listed for use with the furnace or water heater.  
 1789 (ii) Securement and accessibility. The furnace and water heater shall be secured in  
 1790 place to avoid displacement. Every furnace and water heater shall be accessible for  
servicing,  
 1791 for replacement, or both as required by MHCSS 3280.709(a).  
 1792 (iii) Installation. Furnaces and water heaters shall be installed to provide complete  
 1793 separation of the combustion system from the interior atmosphere of the manufactured

*home,*  
 1794 as required by MHCSS.  
 1795 (A) Separation. The required separation may be achieved by the installation of a  
 1796 direct-vent system (sealed combustion system) furnace or water heater or the  
*installation of a*  
 1797 furnace and water heater venting and combustion systems from the interior atmosphere  
*of the*  
 1798 home. There shall be no doors, grills, removable access panels, or other openings into  
*the*  
 1799 enclosure from the inside of the manufactured home. All openings for ducts, piping,  
*wiring,*  
 1800 etc., shall be sealed.  
 1801 (B) Water heater. The floor area in the area of the water heater shall be free from  
 1802 damage from moisture to ensure that the floor will support the weight of the water  
*heater.*  
 1803

### Part 3. Local Amendments

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1804  
**Section 301. Local Amendments to the IBC.**  
 1805 The following are adopted as amendments to the IBC to be applicable to the following  
 1806 jurisdictions:  
 1807 (1) City of Farmington:  
 1808 (a) A new IBC, Section (F) 903.2.13, is added as follows: "(F) 903.2.13 Group R,  
 1809 Division 3 Occupancies. An automatic sprinkler system shall be installed throughout  
*every*  
 1810 dwelling in accordance with NFPA 13D, when any of the following conditions are  
*present:*  
 1811 1. The structure is over two stories high, as defined by the building code;  
 1812 2. The nearest point of structure is more than 150 feet from the public way;  
 1813 3. The total floor area of all stories is over 5,000 square feet (excluding from the  
*calculation*  
 1814 the area of the basement and/or garage); or  
 1815 4. The structure is located on a street constructed after March 1, 2000 that has a  
*gradient over*  
 1816 12% and, during fire department response, access to the structure will be gained by  
*using such*  
 1817 street. (If the access is intended to be from a direction where the steep gradient is not  
*used, as*  
 1818 determined by the Chief, this criteria shall not apply).  
 1819 Such sprinkler system shall be installed in basements, but need not be installed in  
*garages,*  
 1820 under eaves or in enclosed attic spaces, unless required by the Chief."  
 1821 (b) A new IBC, Section 907.9, is added as follows: "907.9 Alarm Circuit Supervision.  
 1822 Alarm circuits in alarm systems provided for commercial uses (defined as other than  
*one- and*  
 1823 two-family dwellings and townhouses) shall have Class "A" type of supervision.  
*Specifically,*  
 1824 Type "B" or End-of-line resistor and horn supervised systems are not allowed."  
 1825 (c) In NFPA Section 13-07, new sections are added as follows: "6.8.6 FDC Security

- 1826 Locks Required. All Fire Department connections installed for fire sprinkler and  
standpipe
- 1827 systems shall have approved security locks.
- 1828 6.10 Fire Pump Disconnect Signs. When installing a fire pump, red plastic laminate  
signs shall
- 1829 be installed in the electrical service panel, if the pump is wired separately from the main  
1830 disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker  
DOES
- 1831 NOT Shut Off Fire Pump".
- 1832 22.1.6 Plan Preparation Identification. All plans for fire sprinkler systems, except for  
1833 manufacturer's cut sheets of equipment shall include the full name of the person who  
prepared
- 1834 the drawings. When the drawings are prepared by a registered professional engineer,  
the
- 
- 1835  
engineer's signature shall also be included.
- 1836 22.2.2.3 Verification of Water Supply:
- 1837 22.2.2.3.1 Fire Flow Tests. Fire flow tests for verification of water supply shall be  
conducted
- 1838 and witnessed for all applications other than residential unless directed otherwise by the  
Chief.
- 1839 For residential water supply, verification shall be determined by administrative  
procedure.
- 1840 22.2.2.3.2 Accurate and Verifiable Criteria. The design calculations and criteria shall  
include
- 1841 an accurate and verifiable water supply.
- 1842 24.2.3.7 Testing and Inspection of Systems. Testing and inspection of sprinkler systems  
shall
- 1843 include, but are not limited to:
- 1844 Commercial:
- 1845 FLUSH-Witness Underground Supply Flush;
- 1846 ROUGH Inspection-Installation of Riser, System Piping, Head Locations and all  
Components,
- 1847 Hydrostatic Pressure Test;
- 1848 FINAL Inspection-Head Installation and Escutcheons, Inspectors Test Location and  
Flow,
- 1849 Main Drain Flow, FDC Location and Escutcheon, Alarm Function, Spare Parts,  
Labeling of
- 1850 Components and Signage, System Completeness, Water Supply Pressure Verification,  
1851 Evaluation of Any Unusual Parameter."
- 1852 (2) City of North Salt Lake, a new IBC, Section (F)903.2.13, is added as follows:  
1853 "(F)903.2.13 Group R, Division 3 Occupancies. An automatic sprinkler system shall be  
1854 installed throughout every dwelling in accordance with NFPA 13D, when the following  
1855 condition is present:
- 1856 1. The structure is over 6,200 square feet.
- 1857 Such sprinkler system shall be installed in basements, but need not be installed in  
garages,
- 1858 under eaves, or in enclosed attic spaces, unless required by the fire chief."
- 1859 (3) Park City Corporation, in IBC, Section 3409.2, exception 3, is modified to read as

- 1860 follows: "3. Designated as historic under a state or local historic preservation program."
- 1861 (4) Park City Corporation and Park City Fire District:
- 1862 (a) IBC, Section (F)903.2, is deleted and replaced with the following: "(F)903.2
- Where
- 1863 required. Approved automatic sprinkler systems in new buildings and structures shall be
- 1864 provided in the location described in this section.
- 1865 All new construction having more than 6,000 square feet on any one floor, except R-3
- 
- 1866 occupancy.
- 1867 All new construction having more than two (2) stories, except R-3 occupancy.
- 1868 All new construction having three (3) or more dwelling units, including units rented or
- leased,
- 1869 and including condominiums or other separate ownership.
- 1870 All new construction in the Historic Commercial Business zone district, regardless of
- 1871 occupancy.
- 1872 All new construction and buildings in the General Commercial zone district where there
- are
- 1873 side yard setbacks or where one or more side yard setbacks is less than two and one half
- (2.5)
- 1874 feet per story of height.
- 1875 All existing building within the Historic District Commercial Business zone."
- 1876 (b) In IBC, Table 1505.1, new footnotes d and e are added as follows: "d. Wood roof
- 1877 covering assemblies are prohibited in R-3 occupancies in areas with a combined rating
- of more
- 1878 than 11 using Tables 1505.1.1 and 1505.1.2 with a score of 9 for weather factors.
- 1879 e. Wood roof covering assemblies shall have a Class A rating in occupancies other than
- R-3 in
- 1880 areas with a combined rating of more than 11 using Tables 1505.1.1 and 1505.1.2 with
- a score
- 1881 of 9 for weather factors. The owner of the building shall enter into a written and
- recorded
- 1882 agreement that the Class A rating of the roof covering assembly will not be altered
- through any
- 1883 type of maintenance process.
- 1884

TABLE 1505.1.1

1885

WILDFIRE HAZARD SEVERITY SCALE

<u>RATING</u>	<u>SLOPE</u>	<u>VEGETATION</u>
1887	<u>less than or equal to 10%</u>	<u>Pinion-juniper</u>
1888	<u>10.1 - 20%</u>	<u>Grass-sagebrush</u>
1889	<u>greater than 20%</u>	<u>Mountain brush or</u>
1890	<u>softwoods</u>	
1891		

TABLE 1505.1.2

1892

PROHIBITION/ALLOWANCE OF WOOD ROOFING

1893	<u>Rating</u>	<u>R-3 Occupancy</u>	<u>All Other Occupancies</u>
1894	<u>less than or</u>	<u>wood roof covering</u>	<u>wood roof covering</u>
1895	<u>equal to 11</u>	<u>assemblies per</u>	<u>assemblies per</u>
1896		<u>Table 1505.1 are</u>	<u>Table 1505.1 are</u>

1897

allowed                      allowed1898    greater than or      wood roof covering                      wood roof covering1899    equal to 12              is prohibited                      assemblies with a Class A1900    rating are allowed"1901    (c) IBC, Appendix C, is adopted.1902    (5) Salt Lake City:1903    (a) In IBC, Section 1008.1.9.7, a new exception is added as follows: "Exception: In1904    International Airport areas designated as Group "A" Occupancies where nationalsecurity1905    interests are present, the use of panic hardware with delayed egress is allowed when all1906    provision of 1008.1.9.7 are met and under item #4 1 second is changed to 2 seconds."1907    (6) Sandy City:1908    (a) A new IBC, Section (F)903.2.13, is added as follows: "(F)903.2.13 An automatic1909    sprinkler system shall be installed in accordance with NFPA 13 throughout buildings1910    containing all occupancies where fire flow exceeds 2,000 gallons per minute, based onTable1911    B105.1 of the 2009 International Fire Code. Exempt locations as indicated in Section1912    903.3.1.1.1 are allowed.1913    Exception: Automatic fire sprinklers are not required in buildings used solely forworship,1914    Group R Division 3, Group U occupancies and buildings complying with theInternational1915    Residential Code unless otherwise required by the International Fire Code.1916    (b) A new IBC, Appendix L, is added and adopted as follows: "Appendix L1917    BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS1918    WILDLAND-URBAN INTERFACE AREAS1919    AL 101.1 General. Buildings and structures constructed in areas designated asWildland-Urban1920    Interface Areas by Sandy City shall be constructed using ignition resistant constructionas1921    determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban1922    Interface Code (IWUIC), as promulgated by the International Code Council, shall beused to1923    determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006International1924    Wildland-Urban Interface Code, as modified herein, shall be used to determine the1925    requirements for Ignition Resistant Construction.1926    (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION anew1927    Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and504.7

- 
- 1928 shall only be required on the exposure side of the structure, as determined by the Fire Marshal,
- 1929 where defensible space is less than 50 feet as defined in Section 603 of the 2006
- International
- 1930 Wildland-Urban Interface Code.
- 1931 (ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION
- 1932 Subsections 505.5 and 505.7 are deleted."
- 1933 **Section 302. Local Amendments to the IRC.**
- 1934 The following are adopted as amendments to the IRC to be applicable to the following
- 1935 jurisdictions:
- 1936 (1) A local amendment to the following which may be applied to detached one and
- two
- 1937 family dwellings and multiple single family dwellings shall be applicable to the
- corresponding
- 1938 provisions of the IRC for the local jurisdiction to which the local amendment has been
- made:
- 1939 (a) IBC under State Construction Code, Section 301;
- 1940 (b) IPC under State Construction Code, Section 303;
- 1941 (c) IMC under State Construction Code, Section 304;
- 1942 (d) IFGC under State Construction Code, Section 305;
- 1943 (e) NEC under State Construction Code, Section 306; and
- 1944 (f) IECC under State Construction Code, Section 307.
- 1945 (2) City of Farmington:
- 1946 (a) In IRC, R324 Automatic Sprinkler Systems, new IRC, Sections R324.1 and R324.2
- 1947 are added as follows: "R324.1 When required. An automatic sprinkler system shall be
- installed
- 1948 throughout every dwelling in accordance with NFPA 13D, when any of the following
- 1949 conditions are present:
- 1950 1. the structure is over two stories high, as defined by the building code;
- 1951 2. the nearest point of structure is more than 150 feet from the public way;
- 1952 3. the total floor area of all stories is over 5,000 square feet (excluding from the
- calculation the
- 1953 area of the basement and/or garage); or
- 1954 4. the structure is located on a street constructed after March 1, 2000 that has a
- gradient over
- 1955 12% and, during fire department response, access to the structure will be gained by
- using such
- 1956 street. (If the access is intended to be from a direction where the steep gradient is not
- used, as
- 1957 determined by the Chief, this criteria shall not apply).
- 1958 R324.2 Installation requirements and standards. Such sprinkler system shall be installed
- in
- 
- 1959 basements, but need not be installed in garages, under eaves or in enclosed attic spaces, unless
- 1960 required by the Chief. Such system shall be installed in accordance with NFPA 13D."
- 1961 (b) In IRC, Chapter 44, the following NFPA referenced standards are added as
- follows:
- 1962

"TABLE

	1963	<u>ADD</u>
	1964	<u>13D-07 Installation of Sprinkler Systems in</u>
	1965	<u>One- and Two-family Dwellings and</u>
	1966	<u>Manufactured Homes, as amended by these rules</u>
	1967	<u>13R-07 Installation of Sprinkler Systems in</u>
	1968	<u>Residential Occupancies Up to and</u>
	1969	<u>Including Four Stories in Height"</u>
	1970	<u>(c) In NFPA, Section 13D-07, new sections are added as follows: "1.15 Reference to</u>
	1971	<u>NFPA 13D. All references to NFPA 13D in the codes, ordinances, rules, or regulations</u>
	1972	<u>governing NFPA 13D systems shall be read to refer to "modified NFPA 13D" to</u>
<u>reference the</u>	1973	<u>NFPA 13D as amended by additional regulations adopted by Farmington City.</u>
	1974	<u>4.9 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall</u>
	1975	<u>include, but are not limited to:</u>
	1976	<u>Residential:</u>
	1977	<u>ROUGH Inspection-Verify Water Supply Piping Size and Materials, Installation of</u>
<u>Riser,</u>	1978	<u>System Piping, Head Locations and all Components, Hydrostatic Pressure Test.</u>
	1979	<u>FINAL Inspection-Inspectors Test Flow, System Completeness, Spare Parts, Labeling of</u>
	1980	<u>Components and Signage, Alarm Function, Water Supply Pressure Verification.</u>
	1981	<u>5.2.2.3 Exposed Piping of Metal. Exposed Sprinkler Piping material in rooms of</u>
<u>dwellings</u>	1982	<u>shall be of Metal.</u>
	1983	<u>EXCEPTIONS:</u>
	1984	<u>a. CPVC Piping is allowed in unfinished mechanical and storage rooms only when</u>
<u>specifically</u>	1985	<u>listed for the application as installed.</u>
	1986	<u>b. CPVC Piping is allowed in finished, occupied rooms used for sports courts or similar</u>
<u>uses</u>	1987	<u>only when the ceiling/floor framing above is constructed entirely of non-combustible</u>
<u>materials,</u>	1988	<u>such as a concrete garage floor on metal decking.</u>
	1989	<u>5.2.2.4 Water Supply Piping Material. Water Supply Piping from where the water line</u>
<u>enters</u>		
	1990	<u>the dwelling adjacent to and inside the foundation to the fire sprinkler contractor</u>
	1991	<u>point-of-connection shall be metal, suitable for potable plumbing systems. See Section</u>
<u>7.1.4</u>	1992	<u>for valve prohibition in such piping. Piping down stream from the point-of-connection</u>
<u>used in</u>	1993	<u>the fire sprinkler system, including the riser, shall conform to NFPA 13D standards.</u>
	1994	<u>5.4 Fire Pump Disconnect Signs. When installing a Fire Pump, Red Plastic Laminate</u>
<u>Signs</u>	1995	<u>shall be installed in the electrical service panel, if the pump is wired separately from the</u>
<u>main</u>	1996	<u>disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker</u>
<u>DOES</u>	1997	<u>NOT Shut Off Fire Pump".</u>

1998 7.1.4 Valve Prohibition. NFPA 13D, Section 7.1 is hereby modified such that NO  
VALVE is  
 1999 permitted from the City Water Meter to the Fire Sprinkler Riser Control.  
 2000 7.6.1 Mandatory Exterior Alarm. Every dwelling that has a fire sprinkler system shall  
have an  
 2001 exterior alarm, installed in an approved location. The alarm shall be of the combination  
 2002 horn/strobe or electric bell/strobe type, approved for outdoor use.  
 2003 8.1.05 Plan Preparation Identification. All plans for fire sprinkler systems, except for  
 2004 manufacturer's cut sheets of equipment, shall include the full name of the person who  
prepared  
 2005 the drawings. When the drawings are prepared by a registered professional engineer,  
the  
 2006 engineer's signature shall also be included.  
 2007 8.7 Verification of Water Supply:  
 2008 8.7.1 Fire Flow Tests: Fire Flow Tests for verification of Water Supply shall be  
conducted and  
 2009 witnesses for all applications other than residential, unless directed otherwise by the  
Chief. For  
 2010 residential Water Supply, verification shall be determined by administrative procedure.  
 2011 8.7.2 Accurate and Verifiable Criteria. The design calculations and criteria shall  
include an  
 2012 accurate and verifiable Water Supply.  
 2013 (3) Morgan City Corporation, in IRC, Section R105.2, Work Exempt From Permit, a  
 2014 new list item number 11 is added as follows: "11. Structures intended to house farm  
animals, or  
 2015 for the storage of feed associated with said farm animals when all the following criteria  
is met:  
 2016 a. The parcel of property involved is zoned for the keeping of farm animals or has  
 2017 grandfathered animal rights.  
 2018 b. The structure is setback not less than 50 feet from the rear or side of dwellings, and  
not less  
 2019 than 10 feet from property lines and other structures.  
 2020 c. The structure does not exceed 1000 square feet of floor area, and is limited to 20 feet  
in

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2021 height. Height is measured from the average grade to the highest point of the structure.  
 2022 d. Before construction, a site plan is submitted to, and approved by the building official.  
 2023 Electrical, plumbing, and mechanical permits shall be required when that work is  
included in  
 2024 the structure."  
 2025 (4) Morgan County, in IRC, Section R105.2, a new list item number 11 is added as  
 2026 follows: "11. Structures intended to house farm animals, or for the storage of feed  
associated  
 2027 with said farm animals when all the following criteria is met:  
 2028 a. The parcel of property involved is zoned for the keeping of farm animals or has  
 2029 grandfathered animal rights.  
 2030 b. The structure is set back not less than required by the Morgan County Zoning  
Ordinance for  
 2031 such structures, but not less than 10 feet from property lines and other structures.

2032 c. The structure does not exceed 1000 square feet of floor area, and is limited to 20 feet  
in  
2033 height. Height is measured from the average grade to the highest point of the structure.  
2034 d. Before construction, a Land Use Permit must be applied for, and approved, by the  
Morgan  
2035 County Planning and Zoning Department. Electrical, plumbing, and mechanical permits  
shall  
2036 be required when that work is included in the structure."  
2037 (5) City of North Salt Lake, a new IRC, Section R324, is added as follows: "Section  
2038 R324 Automatic Sprinkler System Requirements. R324.1 When Required. An automatic  
2039 sprinkler system shall be installed throughout every dwelling when the following  
condition is  
2040 present:  
2041 1. The structure is over 6,200 square feet.  
2042 R324.2 Installation requirements and standards. Such sprinkler system shall be installed  
in  
2043 basements, but need not be installed in garages, under eaves, or in enclosed attic spaces,  
unless  
2044 required by the fire chief. Such system shall be installed in accordance with NFPA  
13D."  
2045 (6) Park City Corporation, Appendix P of the 2006 IRC is adopted.  
2046 (7) Park City Corporation and Park City Fire District:  
2047 (a) IRC, Section R905.7, is deleted and replaced with the following: "R905.7 Wood  
2048 shingles. The installation of wood shingles shall comply with the provisions of this  
section.  
2049 Wood roof covering is prohibited in areas with a combined rating of more than 11 using  
the  
2050 following tables with a score of 9 for weather factors.  
2051

TABLE

2052

WILDFIRE HAZARD SEVERITY SCALE

<u>RATING</u>	<u>SLOPE</u>	<u>VEGETATION</u>
2053 <u>1</u>	<u>less than or equal to 10%</u>	<u>Pinion-juniper</u>
2054 <u>2</u>	<u>10.1 - 20%</u>	<u>Grass-sagebrush</u>
2055 <u>3</u>	<u>greater than 20%</u>	<u>Mountain brush or</u>
2056	<u>softwoods</u>	
2057		
2058		

PROHIBITION/EXEMPTION TABLE

<u>RATING</u>	<u>WOOD ROOF PROHIBITION</u>
2059 <u>less than or equal to 11</u>	<u>wood roofs are allowed</u>
2060 <u>greater than or equal to 12</u>	<u>wood roofs are prohibited"</u>
2061	<u>(b) IRC, Section R905.8, is deleted and replaced with the following: "R905.8 Wood</u>
2062 <u>Shakes. The installation of wood shakes shall comply with the provisions of this section.</u>	
2063	
<u>Wood</u>	
2064 <u>roof covering is prohibited in areas with a combined rating of more than 11 using the</u>	

following

2065 tables with a score of 9 for weather factors.

2066

TABLE

2067

WILDFIRE HAZARD SEVERITY SCALE

<u>RATING</u>	<u>SLOPE</u>	<u>VEGETATION</u>
2069 <u>1</u>	<u>less than or equal to 10%</u>	<u>Pinion-juniper</u>
2070 <u>2</u>	<u>10.1 - 20%</u>	<u>Grass-sagebrush</u>
2071 <u>3</u>	<u>greater than 20%</u>	<u>Mountain brush or</u>
2072	<u>softwoods</u>	

2073

PROHIBITION/EXEMPTION TABLE

<u>RATING</u>	<u>WOOD ROOF PROHIBITION</u>
2074 <u>less than or equal to 11</u>	<u>wood roofs are allowed</u>
2075 <u>greater than or equal to 12</u>	<u>wood roofs are prohibited"</u>
2076 <u>(c) Appendix K is adopted.</u>	

2077 (8) Sandy City, a new IRC, Section R324, is added as follows: "Section R324

2078 IGNITION RESISTANT CONSTRUCTION

2079 R324.1 General. Buildings and structures constructed in areas designated as Wildland-

Urban

2080 Interface Areas by Sandy City shall be constructed using ignition resistant construction

as

2081 determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban

2083

Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to

2084 determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 IWUIC,

as

2085 modified herein, shall be used to determine the requirements for Ignition Resistant

2086 Construction.

2087 (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a

new

2088 Section 504.1.1 is added as follows:

2089 504.1.1 General. Subsections 504.5, 504.6, and 504.7 shall only be required on the

exposure

2090 side of the structure, as determined by the Fire Marshal, where defensible space is less

than 50

2091 feet as defined in Section 603 of the 2006 IWUIC.

2092 (ii) In Section 505 of the IWUIC Class 2 IGNITION-RESISTANT CONSTRUCTION

2093 Subsections 505.5 and 505.7 are deleted."

2094 **Section 303. Local Amendments to the IPC.**

2095 The following are adopted as amendments to the IPC to be applicable to the following

2096 jurisdictions:

2097 (1) Salt Lake City, IPC, Appendix C, as specified and amended in State Construction

2098 Code, Subsection 203(49).

2099 (2) South Jordan:

2100 (a) IPC, Section 312.10.2, is deleted and replaced with the following: "312.10.2  
 2101 Testing. Reduced pressure principle backflow preventer assemblies, double check-valve  
 2102 assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire  
protection  
 2103 backflow prevention assemblies, double check detector fire protection backflow  
prevention  
 2104 assemblies, hose connection backflow preventers, and spill-proof vacuum breakers shall  
be  
 2105 tested at the time of installation, immediately after repairs or relocation and at least  
annually.  
 2106 The testing procedure shall be performed in accordance with one of the following  
standards:  
 2107 ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056,  
 2108 CSA B64.10, or CSA B64.10.1. Assemblies, other than the reduced pressure principle  
 2109 assembly, protecting lawn irrigation systems that fail the annual test shall be replaced  
with a  
 2110 reduced pressure principle assembly."  
 2111 (b) IPC, Section 608.16.5, is deleted and replaced with the following: "608.16.5  
 2112 Connections to lawn irrigation systems. The potable water supply to lawn irrigation  
systems  
 2113 shall be protected against backflow by a reduced pressure principle backflow  
preventer."

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2114

**Section 304. Local Amendment to the IMC.**

2115 The following are adopted as amendments to the IMC to be applicable to the  
following

2116 jurisdictions:

2117 None.

2118 **Section 305. Local Amendment to the IFGC.**

2119 The following are adopted as amendments to the IFGC to be applicable to the  
following

2120 jurisdictions:

2121 None.

2122 **Section 306. Local Amendment to the NEC.**

2123 The following are adopted as amendments to the NEC to be applicable to the  
following

2124 jurisdictions:

2125 None.

2126 **Section 307. Local Amendment to the IECC.**

2127 The following are adopted as amendments to the IECC to be applicable to the  
following

2128 jurisdictions:

2129 None.

2130 **Section 2. Effective date.**

2131 This bill takes effect on July 1, 2010.

**Legislative Review Note**  
**as of 10-26-09 9:04 AM**

**Office of Legislative Research and General Counsel**