

**STATE CONSTRUCTION CODE ADOPTION**

2010 GENERAL SESSION

STATE OF UTAH

**Chief Sponsor: Michael T. Morley**

Senate Sponsor: J. Stuart Adams

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**LONG TITLE**

**Committee Note:**

The Business and Labor Interim Committee recommended this bill.

**General Description:**

This bill adopts the State Construction Code in accordance with the Utah Uniform Building Standards Act.

**Highlighted Provisions:**

This bill:

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

**Monies Appropriated in this Bill:**

None

**Other Special Clauses:**

This bill takes effect on July 1, 2010.

**Utah Code Sections Affected:**

ENACTS UNCODIFIED MATERIAL

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

**Section 1. Title -- Definitions -- General Provisions.**

(1) This bill is known as the "State Construction Code Adoption Act."

(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

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

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.

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.  
155 Exception: Areas used for child day care purposes with a Residential Certificate or a Family  
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  
158 the International Residential Code in accordance with Section 101.2. Areas used for Hourly  
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, psychiatric,  
185 nursing, or custodial care on a 24-hour basis of more than three persons who are not capable of  
186 self-preservation. This group shall include, but not be limited to the following: hospitals,  
187 nursing homes (both intermediate care facilities and skilled nursing facilities), mental hospitals,  
188 detoxification facilities, ambulatory surgical centers with five or more operating rooms where  
189 care is less than 24 hours, and type II assisted living facilities. Type II assisted living facilities  
190 with five or fewer persons shall be classified as a Group R-4. Type II assisted living facilities  
191 as defined in 308.1.1 with at least six and not more than sixteen residents shall be classified as  
192 a Group I-1 facility."

193 (11) In IBC, Section 308.3.1, the definition for "CHILD CARE FACILITIES" is  
194 deleted and replaced with the following: "CHILD CARE FACILITIES. A child care facility, as  
195 licensed by the Department of Human Services in Utah Administrative Code, R501, that  
196 provides care on a 24-hour basis to more than four children 2 1/2 years of age or less shall be  
197 classified as Group I-2."

198 (12) IBC, Section 308.5, is deleted and replaced with the following: "308.5 Group I-4,  
199 day care facilities. This group shall include buildings and structures occupied by persons of any  
200 age who receive custodial care less than 24 hours by individuals other than parents or  
201 guardians, relatives by blood, marriage, or adoption, and in a place other than the home of the  
202 person cared for. A facility such as the above with four or fewer persons shall be classified as  
203 an R-3 or shall comply with the International Residential Code in accordance with Section  
204 101.2. Places of worship during religious functions and Group E child day care centers are not  
205 included."

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

207 (14) In IBC, Section 310.1, in the subsection designated as R-1, at the end of the  
208 sentence beginning with "Congregate living facilities" the following is added: "or shall comply  
209 with the International Residential Code."

210 (15) In IBC, Section 310.1, in the subsection designated as R-2, at the end of the  
211 sentence beginning with "Congregate living facilities" the following is added: "or shall comply  
212 with the International Residential Code."

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

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.



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

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 m<sup>2</sup>) 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 m<sup>2</sup>)" 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

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

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 m<sup>2</sup>) of  
357 floor area. An additional 100 square feet (9.3 m<sup>2</sup>) 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<sub>o</sub> = 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,  
 404 P<sub>g</sub>, may be adjusted by the building official when a licensed engineer or architect submits data  
 405 substantiating the adjustments. A record of such action together with the substantiating data  
 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

416	<u>COUNTY</u>	<u>P<sub>o</sub></u>	<u>S</u>	<u>A<sub>o</sub></u>
417	<u>Beaver</u>	<u>43</u>	<u>63</u>	<u>6.2</u>
418	<u>Box Elder</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
419	<u>Cache</u>	<u>50</u>	<u>63</u>	<u>4.5</u>
420	<u>Carbon</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
421	<u>Daggett</u>	<u>43</u>	<u>63</u>	<u>6.5</u>
422	<u>Davis</u>	<u>43</u>	<u>63</u>	<u>4.5</u>
423	<u>Duchesne</u>	<u>43</u>	<u>63</u>	<u>6.5</u>
424	<u>Emery</u>	<u>43</u>	<u>63</u>	<u>6.0</u>
425	<u>Garfield</u>	<u>43</u>	<u>63</u>	<u>6.0</u>
426	<u>Grand</u>	<u>36</u>	<u>63</u>	<u>6.5</u>
427	<u>Iron</u>	<u>43</u>	<u>63</u>	<u>5.8</u>
428	<u>Juab</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
429	<u>Kane</u>	<u>36</u>	<u>63</u>	<u>5.7</u>
430	<u>Millard</u>	<u>43</u>	<u>63</u>	<u>5.3</u>

431	<u>Morgan</u>	<u>57</u>	<u>63</u>	<u>4.5</u>
432	<u>Piute</u>	<u>43</u>	<u>63</u>	<u>6.2</u>
433	<u>Rich</u>	<u>57</u>	<u>63</u>	<u>4.1</u>
434	<u>Salt Lake</u>	<u>43</u>	<u>63</u>	<u>4.5</u>
435	<u>San Juan</u>	<u>43</u>	<u>63</u>	<u>6.5</u>
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>

TABLE NO. 1608.1.2(b)

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

		<u>Roof Snow</u>	<u>Ground Snow</u>
		<u>Load (PSF)</u>	<u>Load (PSF)</u>
450	<u>Beaver County</u>		
451	<u>Beaver</u>	<u>5920 ft.</u>	<u>43</u>
452	<u>Box Elder County</u>		
453	<u>Brigham City</u>	<u>4300 ft.</u>	<u>30</u>
454	<u>Tremonton</u>	<u>4290 ft.</u>	<u>30</u>
455	<u>Cache County</u>		
456	<u>Logan</u>	<u>4530 ft.</u>	<u>35</u>
457	<u>Smithfield</u>	<u>4595 ft.</u>	<u>35</u>
458	<u>Carbon County</u>		
459	<u>Price</u>	<u>5550 ft.</u>	<u>30</u>
460	<u>Daggett County</u>		
461	<u>Manila</u>	<u>5377 ft.</u>	<u>30</u>

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>	<del>H</del> → [5] <u>25</u> ← <del>H</del>	<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>	<u>5130 ft.</u>	<u>30</u>	<u>43</u>
481	<u>Kane County</u>			
482	<u>Kanab</u>	<u>5000 ft.</u>	<u>25</u>	<u>36</u>
483	<u>Millard County</u>			
484	<u>Millard</u>	<u>5000 ft.</u>	<u>30</u>	<u>43</u>
485	<u>Delta</u>	<u>4623 ft.</u>	<u>30</u>	<u>43</u>
486	<u>Morgan County</u>			
487	<u>Morgan</u>	<u>5064 ft.</u>	<u>40</u>	<u>57</u>
488	<u>Piute County</u>			
489	<u>Piute</u>	<u>5996 ft.</u>	<u>30</u>	<u>43</u>
490	<u>Rich County</u>			
491	<u>Woodruff</u>	<u>6315 ft.</u>	<u>40</u>	<u>57</u>
492	<u>Salt Lake County</u>			



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

524	<u>Provo</u>	<u>5000 ft.</u>	<u>30</u>	<u>43</u>
525	<u>Spanish Fork</u>	<u>4720 ft.</u>	<u>30</u>	<u>43</u>
526	<u>Wasatch County</u>			
527	<u>Heber</u>	<u>5630 ft.</u>	<u>60</u>	<u>86</u>
528	<u>Washington County</u>			
529	<u>Central</u>	<u>5209 ft.</u>	<u>25</u>	<u>36</u>
530	<u>Dameron</u>	<u>4550 ft.</u>	<u>25</u>	<u>36</u>
531	<u>Leeds</u>	<u>3460 ft.</u>	<u>20</u>	<u>29</u>
532	<u>Rockville</u>	<u>3700 ft.</u>	<u>25</u>	<u>36</u>
533	<u>Santa Clara</u>	<u>2850 ft.</u>	<u>15 (1)</u>	<u>21</u>
534	<u>St. George</u>	<u>2750 ft.</u>	<u>15 (1)</u>	<u>21</u>
535	<u>Wayne County</u>			
536	<u>Loa</u>	<u>7080 ft.</u>	<u>30</u>	<u>43</u>
537	<u>Hanksville</u>	<u>4308 ft.</u>	<u>25</u>	<u>36</u>
538	<u>Weber County</u>			
539	<u>North Ogden</u>	<u>4500 ft.</u>	<u>40</u>	<u>57</u>
540	<u>Ogden</u>	<u>4350 ft.</u>	<u>30</u>	<u>43</u>

541 NOTES

542 (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,  $P_g$  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."

586 (58) A new IBC, Section 1807.1.6.4, is added as follows: "1807.1.6.4 Empirical  
 587 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)

595	<u>Max. Height</u>	<u>Top Edge</u>	<u>Min.</u>	<u>Vertical</u>	<u>Horizontal</u>	<u>Steel at</u>	<u>Max. Lintel</u>	<u>Min. Lintel</u>
596		<u>Support</u>	<u>Thickness</u>	<u>Steel (2)</u>	<u>Steel (3)</u>	<u>Openings (4)</u>	<u>Length</u>	<u>Length</u>
597	<u>2'(610 mm)</u>	<u>None</u>	<u>6"</u>	<u>(5)</u>	<u>2#4 Bars</u>	<u>2- #4 Bars above</u> <u>1- #4 Bar each side</u> <u>1- #4 Bar below</u>	<u>2'(610 mm)</u>	<u>2"for each</u> <u>foot of</u> <u>opening</u> <u>width;</u> <u>min. 6"</u>
602	<u>3'(914 mm)</u>	<u>None</u>	<u>6"</u>	<u>#4@32"</u>	<u>3-#4 Bars</u>	<u>2- #4 Bars above</u> <u>1- #4 Bar each side</u> <u>1- #4 Bar below</u>	<u>2'(610 mm)</u>	<u>2"for each</u> <u>foot of</u> <u>opening</u> <u>width;</u> <u>min. 6"</u>
607	<u>4'(1219 mm)</u>	<u>None</u>	<u>6"</u>	<u>#4@32"</u>	<u>4-#4 Bars</u>	<u>2- #4 Bars above</u> <u>1- #4 Bar each side</u> <u>1- #4 Bar below</u>	<u>3'(914 mm)</u>	<u>2"for each</u> <u>foot of</u> <u>opening</u> <u>width;</u> <u>min. 6"</u>
612	<u>6'(1829 mm)</u>	<u>Floor or roof</u>	<u>8"</u>	<u>#4@24"</u>	<u>5-#4 Bars</u>	<u>2- #4 Bars above</u> <u>1- #4 Bar each side</u> <u>1- #4 Bar below</u>		<u>2"for each</u> <u>foot of</u> <u>opening</u> <u>width;</u> <u>min. 6"</u>
613		<u>Diaphragm</u>						
614		<u>(6)</u>						
617	<u>8'(2438 mm)</u>	<u>Floor or roof</u>	<u>8"</u>	<u>#4@24"</u>	<u>6-#4 Bars</u>	<u>2- #4 Bars above</u> <u>1- #4 Bar each side</u> <u>1- #4 Bar below</u>	<u>6'(1829 mm)</u>	<u>2"for each</u> <u>foot of</u> <u>opening</u> <u>width;</u> <u>min. 6"</u>
618		<u>Diaphragm</u>						
619		<u>(6)</u>						
622	<u>9'(2743 mm)</u>	<u>Floor or roof</u>	<u>8"</u>	<u>#4@16"</u>	<u>7-#4 Bars</u>	<u>2- #4 Bars above</u> <u>1- #4 Bar each side</u> <u>1- #4 Bar below</u>	<u>6'(1829 mm)</u>	<u>2"for each</u> <u>foot of</u> <u>opening</u> <u>width;</u> <u>min. 6"</u>
623		<u>Diaphragm</u>						
624		<u>(6)</u>						

625 width:  
626 min. 6"

627 Over 9' Engineering required for each column  
628 (2743 mm)

629 Footnotes:

630 (1) Based on 3,000 psi (20.6 Mpa) concrete and 60,000 psi (414 Mpa) reinforcing steel.

631 (2) To be placed in the center of the wall, and extended from the footing to within three inches  
632 (76 mm) of the top of the wall; dowels of #4 bars to match vertical steel placement shall 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<sub>i</sub>, 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 Facilities<sup>a, g</sup>"; 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

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  $S_{DS}$  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:

			<u>"Referenced in code</u>
<u>Number</u>	<u>Title</u>	<u>Section number</u>	
<u>720-09</u>	<u>Standard for the Installation of</u>	<u>907.9</u>	
	<u>Carbon Monoxide (CO) Detection and</u>		
	<u>Warning Equipment"</u>		

715 (69) The following referenced standard is added under UL in IBC, Chapter 35:

			<u>"Referenced in code</u>
<u>Number</u>	<u>Title</u>	<u>Section number</u>	
<u>2034-2008</u>	<u>Standard of Single- and</u>	<u>907.9</u>	

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



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

767	<u>COUNTY</u>	<u>P<sub>o</sub></u>	<u>S</u>	<u>A<sub>o</sub></u>
768	<u>Beaver</u>	<u>43</u>	<u>63</u>	<u>6.2</u>
769	<u>Box Elder</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
770	<u>Cache</u>	<u>50</u>	<u>63</u>	<u>4.5</u>
771	<u>Carbon</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
772	<u>Daggett</u>	<u>43</u>	<u>63</u>	<u>6.5</u>
773	<u>Davis</u>	<u>43</u>	<u>63</u>	<u>4.5</u>
774	<u>Duchesne</u>	<u>43</u>	<u>63</u>	<u>6.5</u>
775	<u>Emery</u>	<u>43</u>	<u>63</u>	<u>6.0</u>
776	<u>Garfield</u>	<u>43</u>	<u>63</u>	<u>6.0</u>
777	<u>Grand</u>	<u>36</u>	<u>63</u>	<u>6.5</u>
778	<u>Iron</u>	<u>43</u>	<u>63</u>	<u>5.8</u>
779	<u>Juab</u>	<u>43</u>	<u>63</u>	<u>5.2</u>
780	<u>Kane</u>	<u>36</u>	<u>63</u>	<u>5.7</u>

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

TABLE NO. R301.2(5b)

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

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

812	<u>Manila</u>	<u>5377 ft.</u>	<u>30</u>	<u>43</u>
813	<u>Davis County</u>			
814	<u>Bountiful</u>	<u>4300 ft.</u>	<u>30</u>	<u>43</u>
815	<u>Farmington</u>	<u>4270 ft.</u>	<u>30</u>	<u>43</u>
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→</b> <del><u>Millard</u></del> <u>Fillmore</u> <b>←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	<u>Salt Lake County</u>			
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>

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 only valid  
895 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 Utah  
897 Snow Loads. The ground snow load,  $P_g$ , to be used in the determination of design snow loads  
898 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<sub>o</sub> = 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

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

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

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

1029				<u>sewer, storm drains,</u>
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	<u>USC-FCCCHR)</u>			<u>testing and</u>
1049				<u>maintenance.</u>
1050				<u>b. Shall be installed</u>
1051				<u>in a horizontal</u>
1052				<u>position unless</u>
1053				<u>listed or approved</u>
1054				<u>for vertical</u>
1055				<u>installation.</u>
1056	<u>Pressure</u>	<u>High or</u>	<u>Backsiphonage</u>	<u>a. Shall not be</u>
1057	<u>Vacuum</u>	<u>Low</u>	<u>1/2" - 2"</u>	<u>installed in an</u>
1058	<u>Breaker</u>			<u>area that could be</u>
1059	<u>Assembly</u>			<u>subjected to</u>

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

1091 ground or in a  
1092 vault or pit.  
1093 d. Shall be installed  
1094 in a vertical position  
1095 only.  
1096 General  
1097 Installation  
1098 Criteria  
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 <u>Device</u>	<u>Degree of</u>	<u>Application</u>	<u>Applicable</u>
	<u>Hazard</u>		<u>Standard</u>
1133 <u>Air Gap</u>	<u>High or</u>	<u>Backsiphonage</u>	<u>See Table P2902.3.1</u>
1134	<u>Low</u>		<u>ASME A112.1.2</u>
1135 <u>Antisiphon-type</u>	<u>Low</u>	<u>Backsiphonage</u>	<u>ASSE 1002</u>
1136 <u>Water Closet Flush</u>			<u>CSA CAN/</u>
1137 <u>Tank Ball Cock</u>			<u>CSA-B125</u>
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>	

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>	

1184 Installation Guidelines: The above specialty devices shall be installed in accordance with their  
1185 listing and the manufacturer's instructions and the specific provisions of this chapter."

1186 (30) In IRC, Section P3103.6, the following sentence is added at the end of the  
1187 paragraph: "Vents extending through the wall shall terminate not less than 12 inches 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 drain  
1191 and floor sink installations when installed below grade in accordance with Chapter 30, and  
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, hallways,  
1195 and similar rooms or areas".

1196 (33) IRC, Chapter 44, is amended by adding the following reference standard:

1197	<u>"Standard</u>		
1198	<u>reference</u>		<u>Referenced in code</u>
1199	<u>number</u>	<u>Title</u>	<u>Section number</u>
1200	<u>USC-</u>	<u>Foundation for Cross-Connection</u>	<u>Table P2902.3</u>
1201	<u>FCCCHR</u>	<u>Control and Hydraulic Research</u>	
1202	<u>9th</u>	<u>University of Southern California</u>	
1203	<u>Edition</u>	<u>Kaprielian Hall 300</u>	
1204	<u>Manual</u>	<u>Los Angeles CA 90089-2531</u>	
1205	<u>of Cross</u>		
1206	<u>Connection</u>		
1207	<u>Control"</u>		

1208 (34) In IRC, Chapter 44, the following standard is added under NFPA as follows:

1209	<u>Standard</u>		
1210	<u>reference</u>		<u>Referenced in code</u>
1211	<u>number</u>	<u>Title</u>	<u>section number</u>
1212	<u>720-09</u>	<u>Standard for the Installation</u>	<u>R315.3</u>
1213		<u>of Carbon Monoxide (CO) Detection</u>	
1214		<u>and Warning Equipment"</u>	

1215 (35) IRC, Appendix O, Gray Water Recycling Systems, is deleted and replaced with  
1216 Appendix C of the International Plumbing Code as amended by the state construction code.

1217 **Section 203. Statewide Amendments to the IPC.**

1218 The following are adopted as amendments to the IPC to be applicable statewide:

1219 (1) A new IPC, Section 101.2, is added as follows: "For clarification, the International  
1220 Private Sewage Disposal Code is not part of the plumbing code even though it is in the same  
1221 printed volume."

1222 (2) In IPC, Section 202, the definition for "Backflow Backpressure, Low Head" is  
1223 deleted.

1224 (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



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>	1298 <u>Degree</u>	1299 <u>Application</u>	1300 <u>Installation Criteria</u>
1301 <u>(applicable</u>	1302 <u>of</u>		
1303 <u>standard)</u>	1304 <u>Hazard</u>		
1305 <u>Reduced</u>	1306 <u>High or</u>	1307 <u>Backpressure or</u>	a. <u>The bottom of each</u>
1308 <u>Pressure</u>	1309 <u>Low</u>	1310 <u>Backsiphonage</u>	<u>RP assembly shall</u>
1311 <u>Principle Backflow</u>		1312 <u>1/2" - 16"</u>	<u>be a minimum of 12</u>
1313 <u>Preventer (AWWA</u>			<u>inches above the</u>
1314 <u>C511, USC-FCCCHR,</u>			<u>ground or floor.</u>
1315 <u>ASSE 1013</u>			b. <u>RP assemblies shall</u>
1316 <u>CSA CNA/CSA-B64.4)</u>			<u>NOT be installed in</u>
1317 <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 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	<u>Pressure</u>	<u>High or</u>	<u>Backsiphonage</u>	<u>a. Shall not be installed</u>
1337	<u>Vacuum</u>	<u>Low</u>	<u>1/2" - 2"</u>	<u>in an area that could be</u>
1338	<u>Breaker</u>			<u>subjected to</u>

1339 Assembly  
1340 (ASSE 1020,  
1341 USC-FCCCHR)

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1352 Spill  
1353 Resistant  
1354 Vacuum  
1355 Breaker  
1356 (ASSE 1056,  
1357 USC-FCCCHR)

High or      Backsiphonage  
Low            1/4" - 2"

1358  
1359  
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1361  
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General

backpressure or  
back drainage  
conditions.  
b. Shall be installed a  
minimum of 12 inches  
above all downstream  
pipng and the highest point  
of use.  
c. Shall not be installed  
below ground or in a vault  
or pit.  
d. Shall be installed in a  
vertical position only.  
a. Shall not be  
installed in an  
area that could  
be subjected to  
backpressure or  
back drainage  
conditions.  
b. Shall be installed a  
minimum of 12 inches  
above all downstream  
pipng and the highest point  
of use.  
c. Shall not be installed  
below ground or in a vault  
or pit.  
d. Shall be installed in a  
vertical position only.  
The assembly owner,

1370 Installation  
1371 Criteria

when necessary, shall  
provide devices or  
structures to facilitate  
testing, repair, and/or  
maintenance and to ensure  
the safety of the backflow  
technician.

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1376  
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:

"TABLE 608.1.1

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>

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 Installation Guidelines: The above specialty devices shall be installed in accordance with their  
 1453 listing and the manufacturer's instructions and the specific provisions of this chapter."

1454 (22) In IPC, Section 608.6, the following sentence is added at the end of the paragraph:  
 1455 "Any connection between potable water piping and sewer-connected waste shall be protected  
 1456 by an air gap."

1457 (23) IPC, Section 608.7, is deleted.

1458 (24) In IPC, Section 608.11, the following sentence is added at the end of the  
 1459 paragraph: "The coating and installation shall conform to NSF Standard 61 and application of  
 1460 the coating shall comply with the manufacturer's instructions."

1461 (25) IPC, Section 608.13.3, is deleted and replaced with the following: "608.13.3  
 1462 Backflow preventer with intermediate atmospheric vent. Backflow preventers with

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

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

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	<u>"Standard</u>		
1562	<u>reference</u>		<u>Referenced in code</u>
1563	<u>number</u>	<u>Title</u>	<u>section number</u>
1564	<u>1072-2007</u>	<u>Performance Requirements for</u>	<u>1004.2</u>
1565		<u>Barrier Type Floor Drain Trap</u>	
1566		<u>Seal Protection Devices"</u>	

1567 (48) In IPC, Chapter 14, the following referenced standard is added:

1568	<u>"Standard</u>		
1569	<u>reference</u>		<u>Referenced in code</u>
1570	<u>number</u>	<u>Title</u>	<u>section number</u>
1571	<u>USC-</u>	<u>Foundation for Cross-Connection</u>	<u>Table 608.1</u>
1572	<u>FCCCHR</u>	<u>Control and Hydraulic Research</u>	
1573	<u>9th Edition</u>	<u>University of Southern California</u>	
1574	<u>Manual of</u>	<u>Kaprielian Hall 300</u>	
1575	<u>Cross</u>	<u>Los Angeles CA 90089-2531</u>	
1576	<u>Connection</u>		
1577	<u>Control"</u>		

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

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

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

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 **Ĥ→ (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 [(±)] (2) ←Ĥ 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 piping  
 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."

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

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



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 anyone 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

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**

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

1886 <u>RATING</u>	1886 <u>SLOPE</u>	1886 <u>VEGETATION</u>
1887 <u>1</u>	1887 <u>less than or equal to 10%</u>	1887 <u>Pinion-juniper</u>
1888 <u>2</u>	1888 <u>10.1 - 20%</u>	1888 <u>Grass-sagebrush</u>
1889 <u>3</u>	1889 <u>greater than 20%</u>	1889 <u>Mountain brush or</u>
1890		1890 <u>softwoods</u>

1891 TABLE 1505.1.2

1892 PROHIBITION/ALLOWANCE OF WOOD ROOFING

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

1897		<u>allowed</u>	<u>allowed</u>
1898	<u>greater than or</u>	<u>wood roof covering</u>	<u>wood roof covering</u>
1899	<u>equal to 12</u>	<u>is prohibited</u>	<u>assemblies with a Class A</u>
1900			<u>rating are allowed"</u>

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: In  
1904 International Airport areas designated as Group "A" Occupancies where national security  
1905 interests are present, the use of panic hardware with delayed egress is allowed when all  
1906 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 automatic  
1909 sprinkler system shall be installed in accordance with NFPA 13 throughout buildings  
1910 containing all occupancies where fire flow exceeds 2,000 gallons per minute, based on Table  
1911 B105.1 of the 2009 International Fire Code. Exempt locations as indicated in Section  
1912 903.3.1.1.1 are allowed.

1913 Exception: Automatic fire sprinklers are not required in buildings used solely for worship,  
1914 Group R Division 3, Group U occupancies and buildings complying with the International  
1915 Residential Code unless otherwise required by the International Fire Code.

1916 (b) A new IBC, Appendix L, is added and adopted as follows: "Appendix L  
1917 BUILDINGS AND STRUCTURES CONSTRUCTED IN AREAS DESIGNATED AS  
1918 WILDLAND-URBAN INTERFACE AREAS

1919 AL 101.1 General. Buildings and structures constructed in areas designated as Wildland-Urban  
1920 Interface Areas by Sandy City shall be constructed using ignition resistant construction as  
1921 determined by the Fire Marshal. Section 502 of the 2006 International Wildland-Urban  
1922 Interface Code (IWUIC), as promulgated by the International Code Council, shall be used to  
1923 determine Fire Hazard Severity. The provisions listed in Chapter 5 of the 2006 International  
1924 Wildland-Urban Interface Code, as modified herein, shall be used to determine the  
1925 requirements for Ignition Resistant Construction.

1926 (i) In Section 504 of the IWUIC Class I IGNITION-RESISTANT CONSTRUCTION a new  
1927 Section 504.1.1 is added as follows: "504.1.1 General. Subsections 504.5, 504.6, and 504.7

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		<u>"TABLE</u>
1963	<u>ADD</u>	
1964	<u>13D-07</u>	<u>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</u>	<u>Installation of Sprinkler Systems in</u>
1968		<u>Residential Occupancies Up to and</u>
1969		<u>Including Four Stories in Height"</u>

1970 (c) In NFPA, Section 13D-07, new sections are added as follows: "1.15 Reference to  
1971 NFPA 13D. All references to NFPA 13D in the codes, ordinances, rules, or regulations  
1972 governing NFPA 13D systems shall be read to refer to "modified NFPA 13D" to reference the  
1973 NFPA 13D as amended by additional regulations adopted by Farmington City.

1974 4.9 Testing and Inspection of Systems. Testing and inspection of sprinkler systems shall  
1975 include, but are not limited to:

- 1976 Residential:
- 1977 ROUGH Inspection-Verify Water Supply Piping Size and Materials, Installation of Riser,
- 1978 System Piping, Head Locations and all Components, Hydrostatic Pressure Test.
- 1979 FINAL Inspection-Inspectors Test Flow, System Completeness, Spare Parts, Labeling of
- 1980 Components and Signage, Alarm Function, Water Supply Pressure Verification.

1981 5.2.2.3 Exposed Piping of Metal. Exposed Sprinkler Piping material in rooms of dwellings  
1982 shall be of Metal.

1983 EXCEPTIONS:

1984 a. CPVC Piping is allowed in unfinished mechanical and storage rooms only when specifically  
1985 listed for the application as installed.

1986 b. CPVC Piping is allowed in finished, occupied rooms used for sports courts or similar uses  
1987 only when the ceiling/floor framing above is constructed entirely of non-combustible materials,  
1988 such as a concrete garage floor on metal decking.

1989 5.2.2.4 Water Supply Piping Material. Water Supply Piping from where the water line enters



1990 the dwelling adjacent to and inside the foundation to the fire sprinkler contractor  
1991 point-of-connection shall be metal, suitable for potable plumbing systems. See Section 7.1.4  
1992 for valve prohibition in such piping. Piping down stream from the point-of-connection used in  
1993 the fire sprinkler system, including the riser, shall conform to NFPA 13D standards.  
1994 5.4 Fire Pump Disconnect Signs. When installing a Fire Pump, Red Plastic Laminate Signs  
1995 shall be installed in the electrical service panel, if the pump is wired separately from the main  
1996 disconnect. These signs shall state: "Fire Pump Disconnect ONLY" and "Main Breaker DOES  
1997 NOT Shut Off Fire Pump".  
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

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

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

2058 PROHIBITION/EXEMPTION TABLE

2059	<u>RATING</u>	<u>WOOD ROOF PROHIBITION</u>
2060	<u>less than or equal to 11</u>	<u>wood roofs are allowed</u>
2061	<u>greater than or equal to 12</u>	<u>wood roofs are prohibited"</u>

2062 (b) IRC, Section R905.8, is deleted and replaced with the following: "R905.8 Wood  
 2063 Shakes. The installation of wood shakes shall comply with the provisions of this section. Wood  
 2064 roof covering is prohibited in areas with a combined rating of more than 11 using the following  
 2065 tables with a score of 9 for weather factors.

2066 TABLE

2067 WILDFIRE HAZARD SEVERITY SCALE

2068	<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

2074	<u>RATING</u>	<u>WOOD ROOF PROHIBITION</u>
2075	<u>less than or equal to 11</u>	<u>wood roofs are allowed</u>
2076	<u>greater than or equal to 12</u>	<u>wood roofs are prohibited"</u>

2077 (c) Appendix K is adopted.

2078 (8) Sandy City, a new IRC, Section R324, is added as follows: "Section R324

2079 IGNITION RESISTANT CONSTRUCTION

2080 R324.1 General. Buildings and structures constructed in areas designated as Wildland-Urban  
 2081 Interface Areas by Sandy City shall be constructed using ignition resistant construction as  
 2082 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."

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.

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

**Office of Legislative Research and General Counsel**

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**H.B. 45 - State Construction Code Adoption**

**Fiscal Note**

2010 General Session

State of Utah

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**State Impact**

Enactment of this bill will not require additional appropriations.

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**Individual, Business and/or Local Impact**

Enactment of this bill likely will not result in direct, measurable costs and/or benefits for individuals, businesses, or local governments.

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